



**QUALITY
INNOVATION
PERFORMANCE**

Snap-on[®]





BELIEVE IN THE BEST

As a professional, you need to believe in your tools and in yourself.

Snap-on gives you confidence in both. We believe your desire to be the best will continue to drive our relentless determination to deliver the best.



Hand Tools

Ratchets

Dual 80® Technology Ratchets (1/4", 3/8", 1/2" Drive), Round Head, Specialty, Quick Release, Low Profile, FOD, Special Application, Spinners, Heads & Handles, Breaker Bars **6 - 16**

Sockets

1/4" Drive, 3/8" Drive, 1/2" Drive, 3/4" Drive, 1" Drive, 1 1/2" Drive, Bit Sockets, Impact Drivers and Sets, Combination Bit Sets, High Performance Spline Sockets **17 - 70**

Extensions

1/4" Drive, 3/8" Drive, 1/2" Drive, 3/4" Drive, 1 1/2" Drive, Accessories **71 - 88**

General Service Sets

1/8" Drive, 1/4" Drive, 3/8" Drive, 1/2" Drive, 3/4" Drive **89 - 100**

Wrenches

Combination Ratcheting Box/Open End, Flex Head Ratcheting Box/Open End, Ratcheting Wrench Adaptors, Combination, British Standard, Offset Box, Ratcheting Box, Specialty Box, Open End, Flex Head, Flare Nut, Crowfoot, Heavy Duty Striking, T and L Shape, Adjustable, Special Application, High Performance, Spline **101 - 137**

Screwdrivers

Combination Sets, Flat Tip, Phillips®, Electronic Service, Pozidriv®, Torx®, Special Application, Ratcheting, Nut Drivers, Bit Sets, Awls, Hooks, Picks, Prybars **138 - 163**

Pliers

Cutters, Needle Nose, Combination, Wire Tools, Retaining Ring, Electronic Service, Pliers and Cutters, Nonconductive Composite, Soldering, Butane **164 - 183**

Punches and Chisels, Hammers, Cutting, Scrapers/Putty Knives, Flie Sets, Tubing, Exhaust, Tubing, Spark Plug, Threading/Restoring, Extractors **184 - 217**

Pullers, Diesel, Heavy Duty, Motorcycle, Aviation **218 - 245**

Torque

Techwrench®, Adjustable Click-Type, TORQOMETER®, Torque Screwdrivers, Interchangeable Heads, Geared Multipliers, Electronic, Versatoq®, Torque Testers, Torque Adaptors **246 - 266**

Power Tools

Cordless

Kits, 18 Volt, 14.4 Volt, 7.2 Volt, Flashlights, International **270 - 282**

Air

Impact Wrenches, Ratchets, Drills, Hammers, Die Grinders, Cutting, Sanders, Finishing **283 - 306**

Accessories

Boots, Bits, Wire Brushes, Blades, Blow Guns, Couplers, Adaptors **307 - 324**

Tool Storage

Roll Cab - Quick Reference **328**

Epiq **329 - 339**

Masters **340 - 355**

Classic **356 - 361**

Heritage **362 - 368**

Mobile Solutions **369 - 376**

Accessories **377 - 400**

Diagnostics

ETHOS®, SOLUS Ultra®, Vantage PRO™, VERDICT™, MODIS™, VERUS®, Diagnostics Accessories, Heavy Duty Pro-Link iQ™ **404 - 424**

Shop & Technician Tools

Specialty Meters & Analyzers

Testing and Electronics, Fuel and Engine Systems **428 - 459**

Battery Service

Chargers, Testers, Tools **460 - 467**

Air Conditioning & Cooling

468 - 482

Under Car Service

Wheel Balancing, Tire Changers, Tire and Wheel, Wheel/Axle Pullers, Wheel Alignment, Drive Line, Lifting **483 - 514**

Welding

515 - 526

Lighting

527 - 534

Shop Equipment

Fluid Maintenance, Lubrication, Engine Service, Valve, Cylinder, Piston, Bushing/Seal, Fender Covers, Creepers, Measuring, Mirrors and Pick-up Tools, Brakes, Body, Headlamp, Paint Spray, Abrasive Blast Systems, Vises/C-Clamps, Work Benches, Presses, Air Compressors **535 - 600**

Cleaning & Safety

Parts Washers, Pressure Washers, Vacuums, Shop Fans, Shop Suppliers, Safety Equipment **601 - 616**

Set Building **617 - 625**

SNAP-ON GENERAL CONTACTS – NORTH AMERICA

Official Website
www.snapon.com

U.S. Customer Service
877-762-7664
www.snapon.com
Click on Customer Service in upper right corner of website

Canada Customer Service
866-824-0524
www.snapon.com
Click on Customer Service in upper right corner of website

Snap-on Corporate
www.snapon.com/corporate

Request a Franchisee or Snap-on Representative
www.snapon.com
Click on Find a Franchisee in the upper right corner of website

Own a Snap-on Franchise
www.snaponfranchise.com

Snap-on Credit
877-777-8455
www.snaponcredit.com

Snap-on Racing
www.snapon.com/racing

Snap-on Business Solutions
www.sbs.snapon.com

Find us on



www.youtube.com/snaponscanner



www.facebook.com/SnaponTools



www.twitter.com/snapon_inc

Hand Tools
www.snapon.com/handtools

Power Tools
www.snapon.com/powertools

Tool Storage
www.snapon.com/toolstorage

Diagnostics
www.diagnostics.snapon.com

Diagnostics Product Support
877-447-6276
diagnostics_Support@snapon.com

Diagnostic Training Online
www.diagnostics.snapon.com/trainingsolutions

Shop and Technician Tools
www.snapon.com/shoptools

Technical Support

Specialty Meters	888-382-6522
Trailer Harness Testers and Adaptors (YA7900A, YA7900AP, LT series)	888-786-7899
Hand Held Gas Analyzers (all HHGA)	888-717-1333
Carbon Monoxide Analyzer (MT706A)	888-382-6522
Diagnostic Smoke™ Vapor Producing Machines	800-901-1988
Battery Chargers (EEBC500, 100 and accessories)	866-713-6007
Electronic Battery Tester (EECS500 only)	866-592-8052
ECO™ PLUS A/C Service Center, KoolKare Plus (EEAC325A, EEAC325B, EEAC324A, EEAC324B)	866-769-2788
Wheel Balancers and Tire Changers (EEWB304C, EEWB305C)	800-225-5786
Pin Plate (EEWB3-1, EEWB3-2 and all components)	800-242-6687
TPMS1 Tools	866-498-7671
MIG/TIG Welders and Plasma Cutter	800-ABC-WELD
Heavy Duty Transmission Fluid Exchangers (EETF303B, EETF304B, EETF306A)	800-303-5874
BrakeKare™ Brake Flush System (EEBR311A)	800-393-1272 ext. 230
TransKare™ 1 ATF Exchanger (EETF305A)	877-906-1395, press 3 for technical support
FuelKare™ Fuel Service System (EEFS305A)	877-906-1395, press 3 for technical support
Fuel System Decarbonizer (EEFS505A)	877-776-8486
Blast Cabinet (All YA cabinets)	800-253-3661
Solvent Based Parts Washers (all PBC and PBD washers)	800-253-3661

Snap-on General Contacts International

Snap-on Australia Customer Service
1800 810 581
www.snapontools.com.au

Snap-on Japan
www.snapon.co.jp

Snap-on Germany
www.snapon.de

Snap-on International
www.snapon.com/international

Snap-on Italy
www.snapon.it

Snap-on Mexico
www.snapon.com.mx

Snap-on Netherlands/Belgium
www.snap-on.eu

Snap-on UK
www.snapon.co.uk

Snap-on UK Customer Service Internet Orders
01536 413877
E-mail: uksales@snapon.com

Government and Industrial

Snap-on Industrial
www.snapon.com/industrial

Snap-on Industrial Customer Service, U.S.
877-740-1900
E-mail: order.crystallake.rcsc@snapon.com

Snap-on U.S. Government Customer Service
888-418-5600
Fax: 888-418-5900
E-mail: contract.sales@snapon.com

Canada Industrial and Government Customer Service
888-451-8665
Fax: 888-447-8665
E-mail: canadacustomer@snapon.com
Francais: canadaserviceaclientele@snapon.com

Snap-on Industrial Europe
www.snaponindustrial.eu

Snap-on Industrial UK
www.snapon.com/uk/industrial
Industrial and Government Customer Service
01536 413904
E-mail: industrialuk@snapon.com

Industrial Customer Service Australia
1800 811 480
E-mail: sota.ind.customerservice@snapon.com

Snap-on Equipment
www.snaponequipment.com
Equipment Service North America
800-225-5786

HAND TOOLS

Overview	4
Ratchets	6
Sockets	17
Extensions	71
Wrenches	101
Screwdrivers	138
Pliers	164
Punches, Chisels & Hammers	184
Pullers	218
Torque	246



Scan to learn about innovations in hand tools from Snap-on

www.snapon.com/1200/handtools



REACH FOR THE LEGENDARY BRAND OF PROFESSIONALS

For more than 90 years, Snap-on has served the serious professional with hand tools that deliver quality, innovation and performance

Reach for Quality

Snap-on® hand tools are crafted from the highest quality materials and built to the most rigorous standards

STRONG AND LONG LASTING – Born of special steel with higher alloy content than most

PRECISE FIT – Upheld to stringent tolerances during manufacture for tight fit to fastener

CORROSION RESISTANT – Finished with Snap-on's signature nickel-chrome plating



Reach for Innovation

Since 1920, Snap-on has taken the most basic of hand tools and made them more productive, more versatile and more comfortable to use

FLANK DRIVE® WRENCHING SYSTEM —

Adds up to 15-20% more torque, preventing rounding off of fasteners

POWEREDGE™ CUTTERS AND TALON GRIP™

PLIERS — Cleaner cuts, more pulling power and increased durability, with greater comfort and leverage

TECHANGLE® TORQUE WRENCH —

Most accurate way to achieve torque and angle tightening sequences, using aircraft technology

Reach for Performance

Snap-on hand tools are unsurpassed in performing the job quickly and accurately

STRENGTH — Open end jaws that don't spread, ratchets that don't slip and screwdrivers that stand up to today's torque requirements

ACCESSIBILITY — Ability to access and perform work in the tightest quarters

VERSATILITY — Broad and deep hand tool lines ensure the right tool for the job



RATCHETS

Designed to Last a Lifetime.

Snap-on® ratchets perform day after day, year after year, generation after generation.

Highest quality materials — Each ratchet is built with our proprietary alloy steel and precision-crafted gears, springs and pawls.

Sealed mechanism — Ratchet heads are sealed to protect gears from debris and liquids to provide trouble-free performance.

Tested under extreme conditions — *Snap-on* ratchets are put through rigorous testing to perform in the real world.

The Ultimate System.

Snap-on ratchets and sockets are synonymous with productivity. They get into the tightest spots—and work with the shortest swing arc.

Lowest combined height — Combined with *Snap-on* sockets, our ratcheting systems have the lowest profile, giving you better access to restricted areas.

Dual 80® Technology — Dual pawls and an 80 tooth gear provide more power in less lateral space.

Variety — Snap-on offers a wide range of ratchets including flex-head, long handle, swivel head, palm ratchets and more.



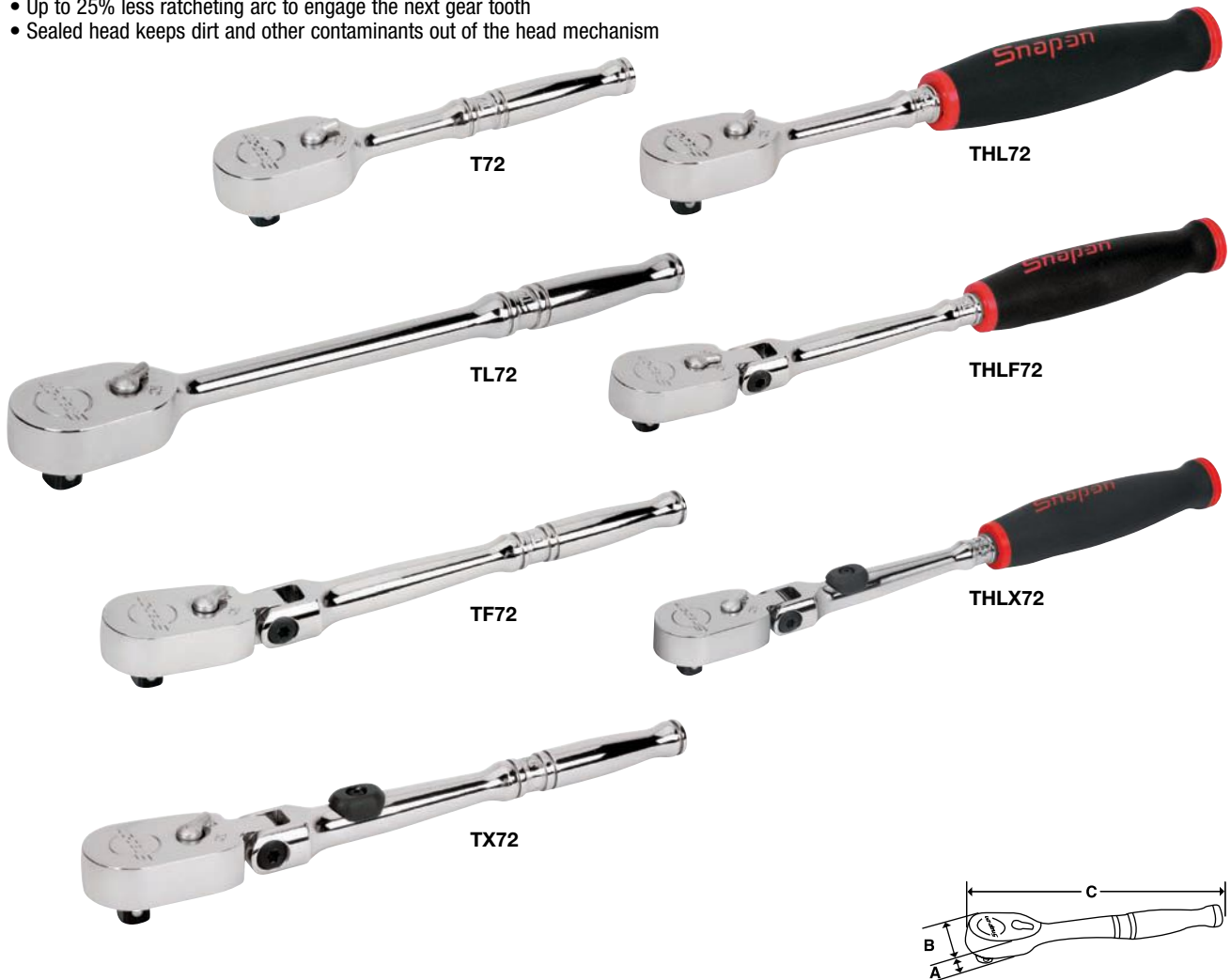


Dual 80® Technology Based Ratchets

Stop, Turn and Listen. A smoother, stronger ratchet.
Try them to believe them.

Dual 80 Technology Ratchets Feature:

- 72 tooth gear
- 7 teeth in contact with gear to provide strength and durability
- Up to 25% less ratcheting arc to engage the next gear tooth
- Sealed head keeps dirt and other contaminants out of the head mechanism



Stock No.	Square Drive, inches	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
T72	1/4	Standard Handle	72	5°	7/16	15/16	4 7/16	RKRT72A
GT72	1/4	Standard Handle, Industrial Finish	72	5°	7/16	15/16	4 7/16	RKRT72A
THL72	1/4	Long Handle	72	5°	7/16	15/16	6 7/8	RKRT72A
TL72	1/4	Long Handle	72	5°	7/16	15/16	6 1/2	RKRT72A
TF72*	1/4	Long Flex Head	72	5°	7/16	15/16	6 1/4	RKRT72A
THLF72*	1/4	Long Flex Head	72	5°	7/16	15/16	8 1/4	RKRT72A
TX72**	1/4	Locking Flex Head	72	5°	7/16	15/16	6 1/4	RKRT72A
THLX72	1/4	Locking Flex Head	72	5°	7/16	15/16	8 1/4	RKRT72A

ASME®/ANSI® B107.10

*Uses RKRT841JT Flex Joint Repair Kit.

**Uses RKRT841JT Flex Joint Repair Kit and RKRT841LM Locking Mechanism Repair Kit.

TH936-12 Soft Grip Replacement Handle.



WARNING



- Do not use cheater bars on handles
- Read safety precautions on pages W1 to W4

RATCHETS

3/8" Drive



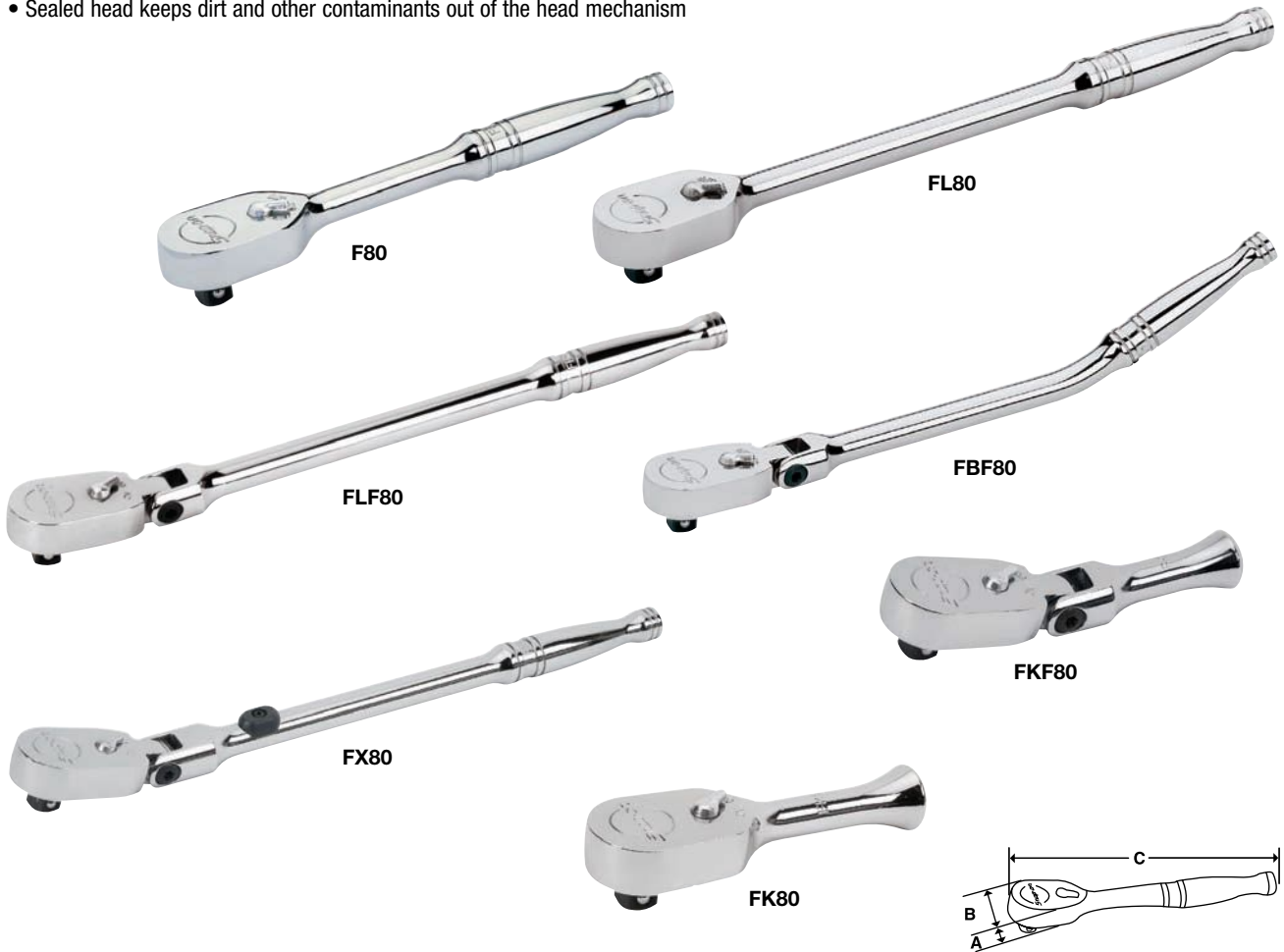
Dual 80® Technology Ratchets

Stop, Turn and Listen. A smoother, stronger ratchet.

Try them to believe them.

Dual 80 Technology Ratchets Feature:

- 80 tooth gear
- 7 teeth in contact with gear to provide strength and durability
- Up to 25% less ratcheting arc to engage the next gear tooth
- Sealed head keeps dirt and other contaminants out of the head mechanism



Stock No.	Square Drive, inches	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
F80	3/8	Standard Handle	80	4.5°	9/16	1 1/4	7 7/16	RKRF80
FL80	3/8	Long Handle	80	4.5°	9/16	1 1/4	10 5/16	RKRF80
GF80	3/8	Standard Handle, Black Industrial	80	4.5°	9/16	1 1/4	7 7/16	RKRF80
FLF80*	3/8	Long Flex Head	80	4.5°	9/16	1 1/4	11 1/2	RKRF80
FBF80*	3/8	Bent Handle Flex Head	80	4.5°	9/16	1 1/4	11 1/4	RKRF80
FX80**	3/8	Locking Flex Head	80	4.5°	9/16	1 1/4	11 1/2	RKRF80
FKF80*	3/8	Stubby Flex Head	80	4.5°	9/16	1 1/4	4 3/4	RKRF80
FK80	3/8	Stubby Handle	80	4.5°	9/16	1 1/4	4 3/16	RKRF80

ASME®/ANSI® B107.10

*Uses RKRF841JT Flex Joint Repair Kit.

**Uses RKRF841JT Flex Joint Repair Kit and RKRFX936ALM Locking Mechanism Repair Kit.



FH80



FHL80



FHF80



FHLF80



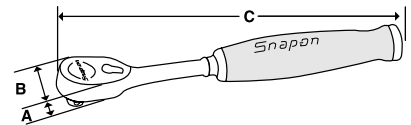
FHBF80



FHOF80



FHX80



Stock No.	Square Drive, inches	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
FH80	3/8	Standard Length	80	4.5°	9/16	1 1/4	9 9/16	RKRF80
FHL80	3/8	Long Handle	80	4.5°	9/16	1 1/4	12 7/16	RKRF80
FHF80*	3/8	Flex Head	80	4.5°	9/16	1 1/4	9 5/8	RKRF80
FHLF80*	3/8	Long Flex Head	80	4.5°	9/16	1 1/4	13 11/16	RKRF80
FHBF80*	3/8	Bent Handle Flex Head	80	4.5°	9/16	1 1/4	13 5/16	RKRF80
FHOF80*	3/8	Offset Flex Head	80	4.5°	9/16	1 1/4	9 15/16	RKRF80
FHX80**	3/8	Locking Flex Head	80	4.5°	9/16	1 1/4	11 15/16	RKRF80

ASME®/ANSI® B107.10

*Uses RKRF841JT Flex Joint Repair Kit.

**Uses RKRF841JT Flex Joint Repair Kit and RKRF936ALM Locking Mechanism Repair Kit.

FH936-12 Soft Grip Replacement Handle.



WARNING



- Do not use cheater bars on handles
- Read safety precautions on pages W1 to W4

RATCHETS

1/2" Drive



Dual 80® Technology Ratchets

Stop, Turn and Listen. A smoother, stronger ratchet.

Try them to believe them.

Dual 80 Technology Ratchets Feature:

- 80 tooth gear
- 7 teeth in contact with gear to provide strength and durability
- Up to 25% less ratcheting arc to engage the next gear tooth
- Sealed head keeps dirt and other contaminants out of the head mechanism



Stock No.	Square Drive, inches	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
S80A	1/2	Standard Handle	80	4.5°	3/4	1 5/8	10 5/16	RKRS80A
GS80A	1/2	Industrial Finish	80	4.5°	3/4	1 5/8	10 5/16	RKRS80A
SH80A	1/2	Standard Handle	80	4.5°	3/4	1 5/8	12	RKRS80A
SL80A	1/2	Long Handle	80	4.5°	3/4	1 5/8	15	RKRS80A
SHL80A	1/2	Long Handle	80	4.5°	3/4	1 5/8	16 5/8	RKRS80A
SF80A*	1/2	Flex Head	80	4.5°	3/4	1 5/8	17 11/16	RKRS80A
SHF80A*	1/2	Long Handle	80	4.5°	3/4	1 5/8	17 11/16	RKRS80A
SLF80A*	1/2	Long Flex Head	80	4.5°	3/4	1 5/8	24 13/16	RKRS80A
SHLF80A*	1/2	Long Flex Head	80	4.5°	3/4	1 5/8	25 3/4	RKRS80A
SX80B**	1/2	Locking Flex Head	80	4.5°	3/4	1 5/8	17 5/8	RKRS80A
SLX80A**	1/2	Locking Flex Head	80	4.5°	3/4	1 5/8	24 13/16	RKRS80A

ASME®/ANSI® B107.10

*Uses RKRSX936JT Flex Joint Repair Kit

**Uses RKRSX80AJT Flex Joint Repair Kit and RKRSX80ALM Locking Mechanism Repair Kit

SH936-12 Soft Grip Replacement Handle.

Round Head

The Snap-on® Round Head features up to 100 teeth to achieve the lowest possible swing arc. Slim round head ratchets are perfect for the tightest of space constraints.



Round Head Ratchets

Feature a slim design plus a strong 60, 72 or 100 tooth gear action for use in confined areas.

Stock No.	Square Drive, inches	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
TKN72	1/4	Short Handle	72	5°	7/16	1 1/4	3 1/16	RKRTHNF72
THNF72*	1/4	Swivel Head	72	5	7/16	1 1/4	6 7/8	RKRTHNF72
TN72	1/4	Round Head	72	5	7/16	1 1/4	4 1/2	RKRTHNF72
TMR860	1/4	Fingertip	60	6°	7/16	1 1/2	4 1/2	RKR860
FHN72**	3/8	Swivel Head	100	3.6°	11/16	1 3/4	12 1/2	RKRTHNF100
FN100	3/8	Round Head	100	3.6°	11/16	1 3/4	7 7/8	RKRTHNF100
FHCNF72**	3/8	Compact Swivel Head	72	5°	7/16	1 1/4	6 7/8	RKRTHNF72

ASME®/ANSI® B107.10

*TH936-12 Soft Grip Replacement Handle.

**FH936-12 Soft Grip Replacement Handle.

Specialty



Ratchet Features:

- Compact head design offers greater accessibility
- Swivel head ratchets provide a variety of ratcheting positions



Specialty Ratchets

Stock No.	Square Drive, inches	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
SKF80A	1/2	Stubby Handle	80	4.5	3/4	1 5/8	7 9/16	RKRS80A
FC72	3/8	Compact Head	72	5°	7/16	15/16	4 7/16	RKRFC72
FCF72	3/8	Compact Flex Head	72	5°	7/16	15/16	6 1/4	RKRFC72

ASME/ANSI B107.10



WARNING



- Do not use cheater bars on handles
- Read safety precautions on pages W1 to W4

RATCHETS

Quick Release

- Quick release button for rapid socket/accessory changes, even with greasy or oily hands
- Contoured handle for comfort and control
- Chrome finish for easy cleanup



Quick Release Ratchets

Stock No.	Square Drive, inches	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
TR72	1/4	Quick Release	72	5°	7/16	15/16	7 7/16	RKRTR72
THR72*	1/4	Quick Release	72	5°	7/16	15/16	9 9/16	RKRTR72
THRLF72*	1/4	Quick Release	72	5°	7/16	15/16	8 1/4	RKRTR72
FR80	3/8	Quick Release	80	4.5	9/16	1 1/4	7 7/16	RKRFR80
FHR80**	3/8	Quick Release	80	4.5	9/16	1 1/4	9 9/16	RKRFR80
FHRLF80**	3/8	Quick Release	80	4.5	9/16	1 1/4	13 11/16	RKRFR80
SR80A	1/2	Quick Release	80	4.5	3/4	1 5/8	10 5/16	RKRSR80A
SHR80A***	1/2	Quick Release	80	4.5	3/4	1 5/8	10 5/16	RKRSR80A
SHRLF80A***	1/2	Quick Release	80	4.5	3/4	1 5/8	25 3/4	RKRSR80A

ASME/ANSI B107.10

*TH936-12 Soft Grip Replacement Handle.

**FH936-12 Soft Grip Replacement Handle.

***SH936-12 Soft Grip Replacement Handle.



Quick Release Ratchets (Blue-Point®)

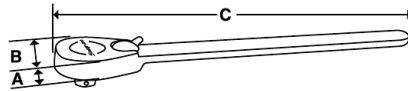
Stock No.	Square Drive, inches	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit		
BPRTR936	1/4	Standard Handle	36	10°	15/32	31/32	5 5/8	RKRBPTR936	•	
BPRTR936SG	1/4	Soft Grip Handle	36	10°	15/32	31/32	5 5/8	RKRBPTR936	•	•
BPRFR938	3/8	Standard Handle	38	9.5°	9/16	1 9/32	7 3/4	RKRBPFR938	•	
BPRFR938SG	3/8	Soft Grip Handle	38	9.5°	9/16	1 9/32	7 3/4	RKRBPFR938	•	•
BPRSR940	1/2	Standard Handle	40	9°	23/32	1 23/32	9 7/8	RKRBP SR940	•	
BPRSR940SG	1/2	Soft Grip Handle	40	9°	23/32	1 23/32	9 7/8	RKRBP SR940	•	•

Set Contains:

BPR703

BPR703SG

ASME/ANSI B107.10



Low Profile Ratchets

- Square drive design works with low profile sockets to access restricted clearance areas without loss of strength
- Use with standard 3/8" drive sockets or other attachments
- Thin handle cross section allows for increased accessibility in tight quarters
- Dual 80® Technology requires less arc to engage the next gear tooth
- 7 teeth in contact with gear to provide strength and durability
- See low profile sockets on p. 28



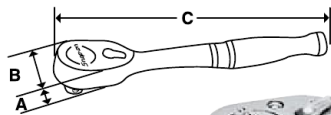
RAT72



RAF80

Stock No.	Drive Size	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
RAT72	11 mm Internal Hex	Low Profile	72	5	3/8	15/16	4 7/8	
RAF80	3/8" Square Drive	Low Profile	80	4.5°	7/16	1 1/4	7 1/2	RKRAF80

FOD (Foreign Object Damage)



F936FOD



S936FOD

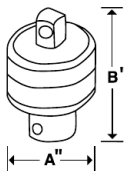
FOD (Foreign Object Damage) Ratchets

- Designed to help prevent foreign object damage in sensitive work environments
- Coverplate and reverse lever permanently affixed to ratchet head with rivets to prevent chance of small parts debris

Stock No.	Square Drive, inches	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
T936FOD	1/4	Standard Handle	36	10°	3/8	1 7/32	4 7/16	
F936FOD	3/8	Standard Handle	36	10°	5/8	1 3/16	7 7/16	
S936FOD	1/2	Standard Handle	36	10°	3/4	1 5/8	10 5/16	

ASME®/ANSI® B107.10

Adaptors



TM77



F77



S77A



L672B

Ratchet Adaptors

Stock No.	Square Drive, inches	Description	Gear Teeth	Swing Arc	A	B	Repair Kit
TM77	1/4	Ratchet Adaptor	20	18°	15/16	1 5/8	
F77	3/8	Ratchet Adaptor	20	18°	13/16	2 3/16	
S77A	1/2	Ratchet Adaptor	20	18°	1 5/8	3	RKRS77
L672B	3/4	Ratchet Adaptor	44	8.2°	2 1/2	3 15/16	RKR881B

ASME/ANSI B107.10



WARNING



- Do not use cheater bars on handles
- Read safety precautions on pages W1 to W4

RATCHETS

Special Application



Special Application Ratchets

Stock No.	Square Drive, inches	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
TFY936*	1/4	HY-LOK® Ratchet	36	10°	7/16	7/8	6 1/4	
FZ936A	3/8	MultiPurpose	36	10°	5/8	1 3/16	3 1/4	RKRF936
PALMRAT	3/8	Palm Style	20	18°	1 3/16		2 5/8	RKRPALMRAT
SA936A	1/2	Scaffold	36	10°	4 3/16	1 5/8	10 5/16	RKSA936
GSP936*	1/2	Spud	36	10°	3/4	1 5/8	15 5/8	RKRGSP936-1

*ASME/ANSI B107.10

GSP936 Spud Ratchet. The spud ratchet is ideal for lining up holes in scaffolding and other construction jobs. A long reverse lever provides easy reversing even while wearing heavy work gloves. Locking button retention. Taper diameter is 3/16 to 7/8". Taper length is 8".

Spinners



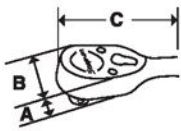
Ratchet Spinners

Stock No.	Square Drive, inches	Description	A	B	Set Contains:	Blue-Point
TMS70A	1/4	Ratchet Spinner	1	7/8		
FSDR	1/4 male to 1/4 female	Finger Ratchet	—	—		•
BLPSD14	1/4	Ratchet Spinner	7/8	27/32		
FRS70A	3/8	Ratchet Spinner	1 1/4	1 5/16		
FSD1	3/8 male to 3/8 female	Spinner Adaptor	—	—	•	•
FSD14	3/8 male to 1/4 female	Spinner Adaptor	—	—	•	•
FSD38	1/4 male to 3/8 female	Spinner Adaptor	—	—	•	•
LRS70A	1/2	Ratchet Spinner	1 3/4	1 5/8		

ASME/ANSI B107.10

FSDR Finger Ratchet (Blue-Point®). Reversible finger ratchet. Small size works great for extremely tight areas. Aluminum knurled outer ring for sure grip. 1/4" external square drive on one side and 1/4" internal hex drive on other side.

Heads & Handles



L872



GL872



L873



GL873

Heads

Stock No.	Drive Size	Description	Gear Teeth	Swing Arc	A	B	C	Repair Kit
L872	3/4	Sealed	32	11°	1 1/4	2 1/2	5 15/16	RKRQC4
GL872	3/4	Sealed Industrial Finish	32	11°	1 1/4	2 1/2	5 15/16	RKRQC4
L873	1	Sealed	30	12°	1 1/2	3 1/8	7 7/8	RKRQC5
GL873	1	Sealed Industrial Finish	30	12°	1 1/2	3 1/8	7 7/8	RKRQC5



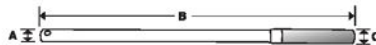
L872H



L872RM

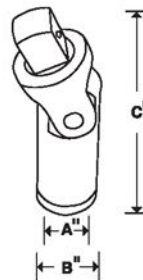


L872RJ



3/4" Handles

Stock No.	Description	A	B	C
L872H	Plain w/locking Button	13/16	19 1/4	15/16
L872RM	Knurled	15/16	36	1 1/8
L872RJ	Knurled	15/16	19 1/4	1 1/8



L8112A

3/4" Head and Handle Combinations

	Heads using 13/16" (small) diameter handle holes	Heads using 15/16" (large) diameter handle holes	
	L52B Sliding T-handle Head	L872 Ratchet Head	L8112A Breaker Bar Head
Short 19 1/4" Handle (Lock Button Both Ends)	L872H		
Short 19 1/4" Handle (Lock Button End/Knurled End)		L872RJ	L872RJ
Long 36" Handle (Lock Button End/Knurled End)		L872RM	L872RM

ASME®/ANSI® B107.10



L53HB



L853HA1

1" Handle/Handle Extension

Stock No.	A	B
L53HB	1 1/8	29
L853HA1	1 3/8	36

L53HB Handle.

- Plain handle with locking buttons at both ends
- Use on 1" drive ratchet heads, breaker bar heads and sliding T-heads

L853HA1 Handle Extension.

- Knurled grip extension handle attaches to L53HB handle for added leverage
- Only used with L53HB handle; L853HA1 will not connect directly to L873 ratchet head

1" Head and Handle Combinations

Stock No.	Description	Required Handle	Optional Handle Extension
L873	Ratchet Head	L53HB	L853HA1
L113H	Breaker Bar Head	L53HB	
L53A	Sliding T-handle Head	L53HB	

ASME/ANSI B107.10



L113H

Breaker Bar/Breaker Bar Head

Drive Size	Handle w/Head	Length	Head Only	A	B	C	Handle Only
3/4			L8112A	15/16	1 9/16	3 11/16	
1	L113H	32 13/16	L113		2 1/8	6 7/16	L53HB



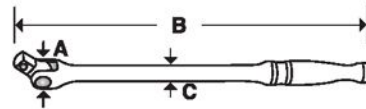
WARNING



- Do not use cheater bars on handles
- Read safety precautions on pages W1 to W4

BREAKER BARS

Breaker Bars



Breaker Bars

Stock No.	Square Drive, inches	Description	A	B	C	Repair Kit	
TM10G*	1/4	Standard Handle	5/8	6	5/16	RKBB1	
THBB10*	1/4	Comfort Handle	5/8	6 1/2	5/16	RKBB1	
F10LC*	3/8	Standard Handle	13/16	9 9/16	1/2	RKBB2	
F12LA*	3/8	Long Handle	13/16	11 9/16	1/2	RKBB2	
FHBB12*	3/8	Comfort Handle	13/16	13	1/2	RKBB2	
SN15B*	1/2	Standard Handle	1 1/8	15	11/16	RKBB3	
SN18B*	1/2	Standard Handle	1 1/8	18	11/16	RKBB3	
GSN18B*	1/2	Standard Handle, Industrial Finish	1 1/8	18	11/16	RKBB3	
SN24C*	1/2	Standard Handle	1 1/8	24	11/16	RKBB3	
SHBB24*	1/2	Comfort Handle	1 1/8	24	11/16	RKBB3	
SN25A*	1/2	45° Offset Square	1 1/8	24	11/16	RKBB3	
BLPBB146	1/4	Standard Handle	5/8	6	3/8		•
BLPBB3810	3/8	Standard Handle	7/8	9 31/32	1/2		•
BLPBB1215	1/2	Standard Handle	1 1/8	15	3/4		•
BLPBB1224	1/2	Telescoping Handle	1 1/16	1224	5/8 7/8		•

*ASME®/ANSI® B107.10



From Start to Finish, Strong, Powerful Sockets.

Snap-on® sockets are designed to fit and built to perform for a lifetime.

Special alloy steel — Made with proprietary alloy content steel for a stronger, more durable tool.

Thin wall design — Uniform wall thickness provides greater access and improved performance where you need it most.

Broach depth — *Snap-on* sockets have a broach depth that allows rethreading a nut without removing it from the socket. Just another way *Snap-on* pays attention to the details.

Flank Drive® wrenching system — Grabs fasteners on the flats, increasing torque and preventing fastener corners from rounding off.

Yes, We Have That.

Snap-on offers a full range of sockets to meet customer needs.

Sizes ranging from 1/4" to 2 1/2" drive

Standard, semi-deep and deep

Single and double hex

Chrome/impact/swivel: deep, semi-deep and shallow

Specialty sockets such as low profile, twist and magnetic

***Snap-on* bit sockets are available in a variety of configurations**

Bit lengths ranging from 3/4" to 7"

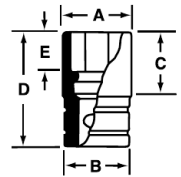
Standard, stubby and long lengths

Hex, double hex and ball hex



SOCKETS

1/4" Drive (Flank Drive®)



Shallow, mm

mm	Set Contains:		112TMMY					111TMMDY	
	6	12	A	B	C	D	E	6	12
4	TMM4*		6.7	12.1	13.3	22.2	4.6		
4.5	TMM4.5*		7.2	12.1	13.3	22.2	4.3		
5	TMM5*	TMMD5*	7.7	12.1	13.3	22.2	4.3	•	•
5.5	TMM5.5	TMMD5.5	8.3	12.1	13.3	22.2	4.6	•	•
6	TMM6	TMMD6	9.3	12.1	13.3	22.2	5.6	•	•
7	TMM7	TMMD7	10.5	12.1	13.3	22.2	6.1	•	•
8	TMM8	TMMD8	11.5	12.1	13.3	22.2	6.9	•	•
9	TMM9	TMMD9	12.7	12.1	13.3	22.2	7.4	•	•
10	TMM10	TMMD10	13.2	13.2	13.3	22.2	7.4	•	•
11	TMM11	TMMD11	15.2	14.6	13.3	22.2	9.4	•	•
12	TMM12	TMMD12	16.5	15.6	13.3	22.2	9.4	•	•
13	TMM13	TMMD13	17.6	16.7	13.3	22.2	9.4	•	•
14	TMM14	TMMD14	18.8	17.8	14.1	22.2	9.7	•	•
15	TMM15		20.4	19.4	14.1	23.0	9.1	•	
16	TMM16		21.0	20.2	16.1	25.0	10.2		

*Conventional hex
*ASME® B107.5m

Sets shown include magnetic storage tray

Shallow, inches

Inches	Set Contains:		110TMY					110TMDY			
	6	12	6	12	A	B	C	D	E	6	12
1/8	TM04				7/32	7/16	1/2	7/8	1/8		
5/32	TM05*				9/32	15/32	1/2	7/8	5/32		
3/16	TM6*	TMD6*	GTM6	GTMD6	9/32	15/32	1/2	7/8	5/32	•	•
7/32	TM7*	TMD7*	GTM7	GTMD7	11/32	15/32	1/2	7/8	3/16	•	•
1/4	TM8	TMD8	GTM8	GTMD8	3/8	15/32	1/2	7/8	7/32	•	•
9/32	TM9	TMD9	GTM9	GTMD9	13/32	15/32	1/2	7/8	1/4	•	•
5/16	TM10	TMD10	GTM10	GTMD10	15/32	15/32	1/2	7/8	9/32	•	•
11/32	TM11	TMD11	GTM11	GTMD11	1/2	15/32	5/16	7/8	9/32	•	•
3/8	TM12	TMD12	GTM12	GTMD12	17/32	1/2	1/2	7/8	9/32	•	•
7/16	TM14	TMD14	GTM14	GTMD14	19/32	9/16	1/2	7/8	3/8	•	•
1/2	TM16	TMD16	GTM16	GTMD16	11/16	21/32	1/2	7/8	3/8	•	•
9/16	TM18	TMD18		GTMD18	25/32	23/32	1/2	29/32	3/8	•	•
5/8	TM20				27/32	25/32	19/32	31/32	13/32		

*Conventional hex
ASME B107.1

Sets shown include magnetic storage tray

120STTM 6 Point Shallow/Deep Set.

- TM6 to TM18 shallow sockets (pg. 18) and STM6 to STM18 deep sockets (pg. 19)
- (20 pcs) 3/16 to 9/16"



Semi Deep, mm

mm	Set Contains:		112TMMSY					112TMMDSY	
	6	12	A	B	C	D	E	6	12
5	TMMS5*	TMMDS5*	7.7	12.1	22.9	31.8	5.1	•	•
5.5	TMMS5.5*	TMMDS5.5	8.3	12.1	22.9	31.8	5.3	•	•
6	TMMS6	TMMDS6	9.3	12.1	22.9	31.8	5.8	•	•
7	TMMS7	TMMDS7	10.5	12.1	22.9	31.8	6.1	•	•
8	TMMS8	TMMDS8	11.5	12.1	18.4	31.8	6.9	•	•
9	TMMS9	TMMDS9	12.7	12.1	18.4	31.8	7.4	•	•
10	TMMS10	TMMDS10	14.0	13.2	18.4	31.8	7.4	•	•
11	TMMS11	TMMDS11	15.4	14.6	18.4	31.8	9.4	•	•
12	TMMS12	TMMDS12	16.5	15.6	18.4	31.8	9.4	•	•
13	TMMS13	TMMDS13	17.6	16.7	18.4	31.8	9.4	•	•
14	TMMS14	TMMDS14	18.8	17.8	18.4	31.8	9.7	•	•
15	TMMS15	TMMDS15	20.4	19.4	18.4	31.8	9.7	•	•

*Conventional hex

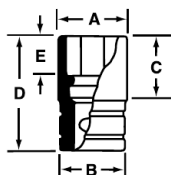
Sets shown include magnetic storage tray

Semi Deep, inches

Inches	Set Contains:		110TMMSY					110TMMDSY	
	6	12	A	B	C	D	E	6	12
3/16	TMS6*	TMDS6*	5/16	15/32	29/32	1 1/4	7/32	•	•
7/32	TMS7*	TMDS7*	11/32	15/32	29/32	1 1/4	7/32	•	•
1/4	TMS8	TMDS8	3/8	15/32	29/32	1 1/4	1/4	•	•
9/32	TMS9	TMDS9	13/32	15/32	23/32	1 1/4	1/4	•	•
5/16	TMS10	TMDS10	15/32	15/32	23/32	1 1/4	9/32	•	•
11/32	TMS11	TMDS11	1/2	15/32	23/32	1 1/4	5/16	•	•
3/8	TMS12	TMDS12	9/16	1/2	23/32	1 1/4	5/16	•	•
7/16	TMS14	TMDS14	5/8	19/32	23/32	1 1/4	3/8	•	•
1/2	TMS16	TMDS16	11/16	21/32	23/32	1 1/4	3/8	•	•
9/16	TMS18	TMDS18	3/4	23/32	23/32	1 1/4	3/8	•	•

*Conventional hex
*ASME B107.1

Sets shown include magnetic storage tray



Deep, mm

mm	Set Contains:							111STMMDY 112STMMY	
	6	12	A	B	C	D	E	6	12
4	STMM4*		6.7	12.1	42.2	50.8	4.6		
4.5	STMM4.5*		7.2	12.1	42.2	50.8	4.6		
5	STMM5*	STMMD5*	7.7	12.1	42.2	50.8	5.1	•	•
5.5	STMM5.5	STMMD5.5	8.3	12.1	42.2	50.8	5.3	•	•
6	STMM6	STMMD6	9.3	12.1	42.2	50.8	5.8	•	•
7	STMM7	STMMD7	10.5	12.1	42.2	50.8	6.1	•	•
8	STMM8	STMMD8	11.5	12.1	42.2	50.8	6.9	•	•
9	STMM9	STMMD9	12.7	12.1	38.1	50.8	7.4	•	•
10	STMM10	STMMD10	14.0	13.2	38.1	50.8	7.4	•	•
11	STMM11	STMMD11	15.2	14.6	38.1	50.8	9.4	•	•
12	STMM12	STMMD12	16.5	15.6	38.1	50.8	9.4	•	•
13	STMM13	STMMD13	17.6	16.7	38.1	50.8	9.4	•	•
14	STMM14	STMMD14	18.8	17.8	38.1	50.8	9.7	•	•
15	STMM15		20.4	19.4	38.1	50.8	9.1	•	•



112STMMY



STMMD14

*Conventional hex Sets shown include magnetic storage tray

124STTMM Metric 6 Point Shallow/Deep Set.

- TMM4 to TMM14 shallow sockets (except TMM4.5) (pg 18) plus STMM4 to STMM14 Deep Sockets (except STMM4.5) (pg 19)
- 24 pcs
- 4, 5 to 14 mm

Deep, inches

In	Set Contains:									110STMDY 110STMY	
	6	12	6	12	A	B	C	D	E	6	12
1/8	STM04*				7/32	7/16	1 21/32	2	1/8		
5/32	STM05*				1/4	15/32	1 21/32	2	3/16		
3/16	STM6*	STMD6*	GSTM6	GSTMD6*	9/16	15/32	1 21/32	2	3/16	•	•
7/32	STM7*	STMD7*	GSTM7	GSTMD7*	11/32	15/32	1 21/32	2	7/32	•	•
1/4	STM8	STMD8	GSTM8	GSTMD8	3/8	15/32	1 21/32	2	7/32	•	•
9/32	STM9	STMD9	GSTM9	GSTMD9**	13/32	15/32	1 21/32	2	1/4	•	•
5/16	STM10	STMD10	GSTM10	GSTMD10**	15/32	15/32	1 21/32	2	7/32	•	•
11/32	STM11	STMD11	GSTM11	GSTMD11	1/2	15/32	1 21/32	2	9/32	•	•
3/8	STM12	STMD12	GSTM12	GSTMD12	17/32	9/16	1 21/32	2	9/32	•	•
7/16	STM14	STMD14	GSTM14	GSTMD14	5/8	9/16	1 21/32	2	3/8	•	•
1/2	STM16	STMD16	GSTM16	GSTMD16	11/16	21/32	1 21/32	2	3/8	•	•
9/16	STM18	STMD18		GSTMD18	3/4	23/32	1 21/32	2	3/8	•	•

*Conventional hex Sets shown include magnetic storage tray

**Larger bolt clearance diameter for servicing aerospace fasteners



110STMY



STMD16 GSTMD14

Long, mm

mm	Set Contains:							6
	6		A	B	C	D	E	6
10	STMML10		14	13.2	33.0	101.6	7.4	•
11	STMML11		15.2	14.6	33.0	101.6	9.4	•

Set shown includes storage tray

Application:
For bumper cover bolts found on most European, Asian and U.S. vehicles.



102STMML



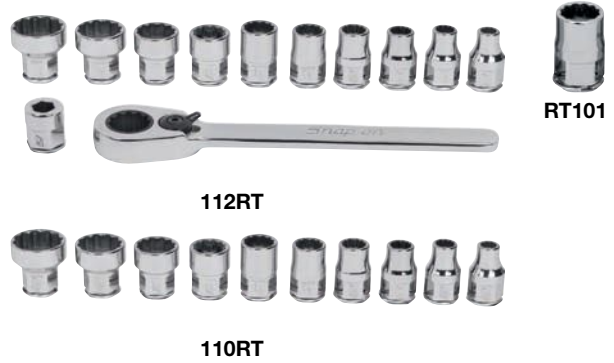
WARNING



- Do not use chrome or industrial finish tools with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

1/4" Drive Low Profile



Low Profile, mm

mm	Hex	A	B	C	D	E	Set Contains:			
							112RTSM	110RTSMA	112RTM	
5	RTSM5	7.7	12.1	-	20.2	2.2	•	•	•	
5.5	RTSM5.5	8.3	12.1	-	20.2	2.6	•	•	•	
6	RTSM6	9.3	12.1	-	19.3	2.7	•	•	•	
7	RTSM7	10.5	12.1	-	19.0	2.8	•	•	•	
8	RTSM8	11.5	12.1	-	19.0	3.6	•	•	•	
9	RTSM9	12.7	12.1	9.2	18.7	3.9	•	•	•	
10	RTSM10	14.0	12.1	9.4	19.0	4.7	•	•	•	
11	RTSM11	15.4	12.1	6.2	17.3	4.5	•	•	•	
12	RTSM12	16.5	12.1	6.1	17.8	4.9	•	•	•	
13	RTSM13	17.6	12.1	5.9	18.1	5.1	•	•	•	
14	RTSM14	18.7	12.1	6.4	19.3	5.8				
15	RTSM15	20.3	12.1	6.3	20.3	6.4				
	RAT72	Low Profile Ratchet						•		•
	RTMBS8	Low Profile Magnetic Bit Holder						•		•

Sets shown include storage tray

Low Profile, inches

Inch	Hex	A	B	C	D	E	Set Contains:			
							112RT	110RT		
3/16	RT61	5/16	15/32	11/32	25/32	3/32	•		•	
7/32	RT71	11/32	15/32	3/8	13/16	3/32	•		•	
1/4	RT81	3/8	15/32	5/16	3/4	1/8	•		•	
9/32	RT91	13/32	15/32	5/16	3/4	1/8	•		•	
5/16	RT101	15/32	15/32	5/16	3/4	5/32	•		•	
11/32	RT111	1/2	15/32	13/32	9/32	3/16	•		•	
3/8	RT121	17/32	15/32	9/32	11/16	3/16	•		•	
7/16	RT141	19/32	15/32	1/4	11/16	7/32	•		•	
1/2	RT161	11/16	15/32	7/32	23/32	7/32	•		•	
9/16	RT181	3/4	15/32	1/4	3/4	1/4	•		•	
	RAT72	Low Profile Ratchet						•		•
	RTMBS8	Low Profile Magnetic Bit Holder						•		•

Sets shown include storage tray



SDMS17



RTMBS8

Stubby Bits and Bit Holder

	Stock No.	Size	Set Contains:
Flat Tip	SDMS213	1/4"	•
Phillips	SDMS222IR	#2	•
Metric Hex	SDMSM3	3 mm	•
	SDMSM4	4 mm	•
	SDMSM5	5 mm	•
	SDMSM6	6 mm	•
	SDMSM8	8 mm	•
Inch Hex	SDMS8	1/8"	•
	SDMS9	9/64"	•
	SDMS10	5/32"	•
	SDMS12	3/16"	•
	SDMS16	1/4"	•
Torx	SDMST15	T15	•
	SDMST20	T20	•
	SDMST25	T25	•
	SDMST27	T27	•
	SDMST30	T30	•

RTMBS8 Low Profile Magnetic Bit Holder.

- Magnetic Bit Holder for the Low Profile RAT72 Ratcheting Wrench
- Special alloy steel provides the highest match of strength and durability
- Nickel-chrome plating provides corrosion resistance
- Holds any 1/4" shank bit: fractional and metric hex bits, TORX® and ball TORX, Phillips and straight bits
- Fits in any 11 mm ratcheting wrench

Applications:

Perfect for tight and compact applications found on automotive, motorcycle, ATV and aviation.

Examples of some automotive applications: heater boxes and motor actuators in dash of vehicle, air conditioning work and on top of dash board where the windshield meets the dash.

1/4" Drive (Blue-Point®)



BLPSM145



BLPSM149



BLPSM1412



BLPLS1414



BLPLS14716

Shallow, mm

mm	6	Length, mm
4	BLPSM144	24.8
4.5	BLPSM144.5	24.8
5	BLPSM145	24.8
5.5	BLPSM145.5	24.8
6	BLPSM146	24.8
7	BLPSM147	24.8
8	BLPSM148	24.8
9	BLPSM149	24.8
10	BLPSM1410	24.8
11	BLPSM1411	24.8
12	BLPSM1412	24.8
13	BLPSM1413	24.8
14	BLPSM1414	24.8

Shallow, inches

#	6	Length, inches
3/16	BLPS14316	1
7/32	BLPS14732	1
1/4	BLPS1414	1
9/32	BLPS14932	1
5/16	BLPS14516	1
11/32	BLPS141132	1
3/8	BLPS1438	1
7/16	BLPS14716	1
1/2	BLPS1412	1
9/16	BLPS14916	1
5/8	BLPS1458	1



BLPLSM145



BLPLSM1412



BLPLS1414



BLPLS1412

Deep, mm

mm	6	Length, mm
4	BLPLSM144	50
5	BLPLSM145	50
6	BLPLSM146	50
7	BLPLSM147	50
8	BLPLSM148	50
9	BLPLSM149	50
10	BLPLSM1410	50
11	BLPLSM1411	50
12	BLPLSM1412	50
13	BLPLSM1413	50
14	BLPLSM1414	50

Deep, inches

#	6	Length, inches
3/16	BLPLS14316	1 31/32
7/32	BLPLS14732	1 31/32
1/4	BLPLS1414	1 31/32
9/32	BLPLS14932	1 31/32
5/16	BLPLS14516	1 31/32
11/32	BLPLS141132	1 31/32
3/8	BLPLS1438	1 31/32
7/16	BLPLS14716	1 31/32
1/2	BLPLS1412	1 31/32
9/16	BLPLS14916	1 31/32
5/8	BLPLS1458	1 31/32



BLPS81438



BLPTE145

Double Square

#	8	Length, inches
1/4	BLPS81414	1
5/16	BLPS814516	1
3/8	BLPS81438	1

External Torx®

#	Stock No.	Length, inches
E4	BLPTE144	1
E5	BLPTE145	1
E6	BLPTE146	1
E7	BLPTE147	1
E8	BLPTE148	1



WARNING



- Do not use chrome or industrial finish tools with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

1/4" Drive



213AFLEY

Torx®/Shallow

#	Stock No.	A	B	C
E4	TLE40A	7/16	7/8	17/64
E5	TLE50A	7/16	7/8	19/64
E6	TLE60A	7/16	7/8	21/64
E7	TLE70A	7/16	7/8	23/64
E8	TLE80A	7/16	7/8	27/64
E10	TLE100A	1/2	7/8	7/16

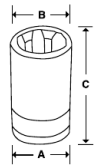
213AFLEY Combination Drive Shallow Torx Set.

- 1/4" drive TLE40A to TLE100A (pg 22), 3/8" drive FLE110A to FLE140A (pg. 30) and 1/2" drive SLE160A to SLE240A (pg 40) (13 pcs) (E4 to E24)

210AFLEY Combination Drive Shallow Torx Set.

- 1/4" drive TLE40A to TLE80A (pg 22) plus 3/8" drive FLE100A to FLE180A (except FLE110A) (pg 30) (10 pcs) (E4 to E18).

Note: Sets shown include magnetic storage tray



STLE50

Torx/Deep

#	Stock No.	A	B	C
E4	STLE40	15/32	9/32	2
E5	STLE50	15/32	5/16	2
E8	STLE80	15/16	13/32	2



106RTLE

Low Profile Inverted Torx

Set Contains:

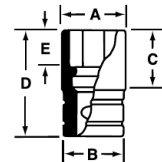
106RTLE

#	Stock No.	A (mm)	B (mm)	C (mm)
E4	RTLE40	12.1	6.7	16.5
E5	RTLE50	12.1	7.7	16.5
E6	RTLE60	12.1	8.4	16.5
E7	RTLE70	12.1	9.3	16.5
E8	RTLE80	12.1	10.5	16.6
E10	RTLE100	12.1	12.1	17.4

Set shown includes storage tray



TM412



Double Square

#	Stock No.	A (inches)	B (inches)	C (inches)	D (inches)	E (inches)
1/4	TM408	15/32	15/32	17/32	7/8	1/4
5/16	TM410	9/16	17/32	17/32	7/8	9/32
3/8	TM412	21/32	5/8	17/32	7/8	5/16

1/4" and 3/8" Drive Shallow/Deep Combination Sets



120STTM



124STTMM



222SFFS



224SFFSM

1/4" Drive

120STTM 6 Point Shallow/Deep Set. TM6 to TM18 shallow sockets (pg 18) and STM6 to STM18 deep sockets (pg 19) (20 pcs) (3/16 to 9/16").

124STTMM Metric 6 Point Shallow/Deep Set. TMM4 to TMM14 shallow sockets (except TMM4.5) (pg 18) plus STMM4 to STMM14 deep sockets (except STMM4.5) (pg 19) (24 pcs) (4.5 to 14 mm).

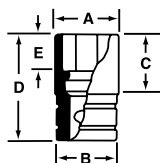
3/8" Drive

222SFFS 6 Point Shallow/Deep Set. FS081 to FS281 shallow sockets (except FS111) (pg 26) plus SFS081 to SFS281 deep sockets (except SFS111) (1/4 to 7/8") (22 pcs) (pg 27).

224SFFSM Metric 6 Point Shallow/Deep Set. FSM81 to FSM191 shallow sockets (pg 26) plus SFSM8 to SFSM19 deep sockets (pg 27) (24 pcs) (8 to 19 mm).

SOCKETS

1/4" Drive Impact



112IMTMM



112SITMM

Shallow, mm

Set Contains: 112IMTMM

mm	6	A	B	C	D	E	6
5	IMTMM5	8.5	12.1	13.1	22.2	4.1	•
5.5	IMTMM5.5	9.3	12.1	13.1	22.2	4.1	•
6	IMTMM6	10.2	12.1	13.1	22.2	6.1	•
7	IMTMM7	11.5	12.1	13.1	22.2	6.1	•
8	IMTMM8	12.7	12.7	13.1	22.2	6.1	•
9	IMTMM9	14.0	14.0	13.1	22.2	6.1	•
10	IMTMM10	15.2	15.2	13.0	22.2	6.1	•
11	IMTMM11	16.4	16.4	12.8	22.2	6.4	•
12	IMTMM12	17.3	17.3	12.7	22.2	7.1	•
13	IMTMM13	18.7	18.7	12.5	22.2	7.4	•
14	IMTMM14	20.3	20.3	13.1	23.0	8.6	•
15	IMTMM15	21.1	21.1	13.9	23.8	8.9	•

Set includes magnetic storage tray

Deep, mm

Set Contains: 112SITMM

mm	6	A	B	C	D	E	6
5	SITMM5	8.5	12.1	41.9	50.8	4.1	•
5.5	SITMM5.5	9.3	12.1	41.9	50.8	4.1	•
6	SITMM6	10.2	12.1	41.9	50.8	6.1	•
7	SITMM7	11.5	12.1	41.9	50.8	6.1	•
8	SITMM8	12.7	12.7	41.9	50.8	6.1	•
9	SITMM9	14.0	14.0	41.9	50.8	6.1	•
10	SITMM10	15.2	15.2	41.9	50.8	6.1	•
11	SITMM11	16.4	16.4	41.9	50.8	6.4	•
12	SITMM12	17.3	17.3	41.9	50.8	7.1	•
13	SITMM13	18.7	18.7	41.9	50.8	7.4	•
14	SITMM14	20.3	20.3	41.9	50.8	8.6	•
15	SITMM15	21.1	21.1	41.9	50.8	8.9	•

Set includes magnetic storage tray



106IMTM

Shallow, inches

Set Contains: 106IMTM

#	6	A	B	C	D	E	6
1/4	IMTM8A	13/32	1/2	17/32	7/8	1/4	•
5/16	IMTM10A	1/2	1/2	17/32	7/8	1/4	•
3/8	IMTM12A	9/16	1/2	17/32	7/8	1/4	•
7/16	IMTM14A	21/32	1/2	17/32	7/8	1/4	•
1/2	IMTM16A	23/32	1/2	17/32	7/8	9/32	•
9/16	IMTM18A	13/16	1/2	9/16	29/32	11/32	•

ASME®/ANSI® B107.2



106SITM

Deep, inches

Set Contains: 106SITM

#	6	A	B	C	D	E	6
1/4	SITM8	13/32	15/32	1 1/2	2	1/4	•
5/16	SITM10	1/2	1/2	1 1/2	2	1/4	•
3/8	SITM12	9/16	9/16	1 1/2	2	1/4	•
7/16	SITM14	21/32	21/32	1 1/2	2	1/4	•
1/2	SITM16	11/16	11/16	1 1/2	2	9/32	•
9/16	SITM18	13/16	13/16	1 1/2	2	11/32	•

ASME/ANSI B107.2

Set includes magnetic storage tray

1/4" Drive Torx® Impact

Torx/Shallow

#	6	A	B	C	D	E
E4	IMTLE40A	9/32	1/2	17/32	7/8	5/32
E5	IMTLE50A	5/16	1/2	17/32	7/8	3/16
E6	IMTLE60A	11/32	1/2	17/32	7/8	3/16
E7	IMTLE70A	3/8	1/2	17/32	7/8	1/4
E8	IMTLE80A	7/16	1/2	17/32	7/8	1/4



IMTLE40A

1/4" Drive (Flank Drive®) Magnetic Power



MGMM10

Shallow Magnetic, mm

mm	6	A	B	D	E
5.5	MGMM5.5	9.9	12.4	22.2	1.9
7	MGMM7	11.5	14.0	22.2	2.0
8	MGMM8	12.7	14.0	22.2	2.4
10	MGMM10	14.8	14.8	23.8	3.1



MGM8D

Shallow Magnetic, inches

#	6	A	B	D	E
1/4	MGM8D	7/16	1/2	7/8	3/32
5/16	MGM10C	1/2	1/2	15/16	3/32
3/8	MGM12C	9/16	19/32	15/16	1/8
7/16	MGM14C	11/16	11/16	15/16	1/8



WARNING



- Do not use chrome or industrial finish hand or power tools with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

1/4" Drive (Flank Drive®) Magnetic Power



MGMMS11B

Deep Magnetic, mm

mm	6	A	B	D	E
7	MGMMS7A	10.7	12.4	50.8	5.8
8	MGMMS8A	11.8	12.4	50.8	5.8
10	MGMMS10A	14.1	14.1	50.8	6.4
11	MGMMS11B	15.6	15.6	50.8	6.4
12	MGMMS12B	17.3	17.3	50.8	7.1
13	MGMMS13A	18.1	18.1	50.8	7.6



MGMS10A

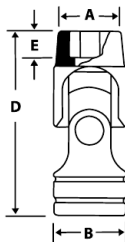
Deep Magnetic, inches

in	6	A	B	D	E
1/4	MGMS8A	3/8	7/16	2	3/32
5/16	MGMS10A	3/8	15/32	2	5/16

1/4" Drive (Flank Drive) Universal



TMUM8A



TMUS161A



GTMU141A



111TMUSMA



106TMUSA

Shallow Universal, mm

mm	Set Contains:		A	B	D	E	111TMUSMA	
	6	12					6	6
5	TMUSM5A*	TMUM5A*	8.1	12.7	29.2	3.3		
5.5	TMUSM5.5A		8.5	12.7	29.2	3.6	•	
6	TMUSM6A	TMUM6A	9.6	12.7	29.7	3.8	•	
7	TMUSM7A	TMUM7A	10.7	12.7	30.5	4.3	•	
8	TMUSM8A	TMUM8A	11.8	12.7	30.5	4.8	•	•
9	TMUSM9A	TMUM9A	12.7	12.7	31.2	4.8	•	
10	TMUSM10A	TMUM10A	14.0	12.7	32.5	5.8	•	•
11	TMUSM11A		15.4	12.7	33.0	6.6	•	
12	TMUSM12A	TMUM12A	16.5	12.7	34.5	6.9	•	•
13	TMUSM13A	TMUM13A	17.3	12.7	36.8	7.6	•	•
14	TMUSM14A		18.8	12.7	38.6	8.6	•	•
15	TMUSM15A		20.4	12.7	41.1	8.9	•	•

*Conventional hex

Sets shown include storage tray

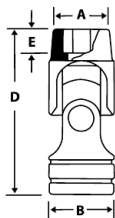
Shallow Universal, inches

in	Set Contains:		A	B	D	E	106TMUSA	
	6	12					6	12
3/16		TMU61A*	19/64	1/2	1 17/64	1/4		
7/32		TMU71A*	11/32	1/2	1 17/64	1/4		
1/4	TMUS81A	TMU81B	3/8	1/2	1 17/64	1/4	•	•
9/32		TMU91A	27/64	1/2	1 5/16	9/32		
5/16	TMUS101A	TMU101A	15/32	1/2	1 11/32	9/32	•	•
11/32		TMU111A	1/2	1/2	1 3/8	9/32		
3/8	TMUS121A	TMU121A	17/32	1/2	1 27/64	9/32	•	•
7/16	TMUS141A	TMU141A	19/32	1/2	1 29/64	13/32	•	•
1/2	TMUS161A	TMU161A	11/16	1/2	1 33/64	13/32	•	•
9/16	TMUS181A	TMU181A	3/4	1/2	1 35/64	13/32	•	•

*Conventional hex

Sets shown include storage tray

1/4" Drive (Flank Drive®) Universal



Deep Universal, mm

STMUM10A

mm	12	A	B	D	E
10	STMUM10A	14.0	12.7	41.4	5.8

Deep Universal, inches

GSTMU101A

11	12	A	B	D	E
5/16	GSTMU101A	15/32	15/32	1 11/16	9/32

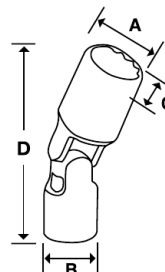
1/4" Drive Torx® Universal



#	Stock No.	A	B	D
E8	TSE80	13/32	1/2	1 3/8
E10	TSE100	1/2	1/2	1 3/8
E12	TSE120	1/2	1/2	1 3/8

TSE80 Applications: Mercedes-Benz® turbo chargers, crankshaft position sensor, sensors and intake bolts, bell housing bolts and ignitions switch.

TSE100 and TSE120 Applications: Mercedes-Benz oil pan bolts, interior and engine fasteners, water pumps, power steering pumps and engine covers on newer models.



TSE120

1/4" Drive (Flank Drive) Impact Swivel



106IPTMM



106IPTM

Shallow Swivel, mm

Set Contains: 106IPTMM

mm	6	A	B	D	E	6
5	IPTMM5	8.6	15.4	35.4	4.1	
5.5	IPTMM5.5	9.5	15.4	35.8	4.1	
6	IPTMM6	10.7	15.4	36.2	4.1	
7	IPTMM7	11.5	15.4	37.4	4.3	
8	IPTMM8	12.7	15.4	38.6	4.8	•
9	IPTMM9	13.9	15.4	39.7	5.3	
10	IPTMM10	15.2	15.4	41.0	5.8	•
11	IPTMM11	16.4	15.4	42.5	6.4	
12	IPTMM12	17.3	17.9	44.9	6.9	•
13	IPTMM13	18.7	17.9	46.1	7.4	•
14	IPTMM14	20.4	17.9	47.6	7.8	•
15	IPTMM15	21.1	17.9	48.1	7.8	•

Set includes storage tray (not magnetic)

Shallow Swivel, inches

Set Contains: 106IPTM

11	6	A	B	D	E	6
1/4	IPTM8	27/64	39/64	1 27/64	5/32	•
5/16	IPTM10	1/2	39/64	1 1/2	3/16	•
3/8	IPTM12	35/64	39/64	1 13/16	7/32	•
7/16	IPTM14	41/64	39/64	1 13/16	1/4	•
1/2	IPTM16	45/64	46/64	1 13/16	19/64	•
9/16	IPTM18	51/64	45/64	1 7/8	5/16	•

Set includes storage tray (not magnetic)



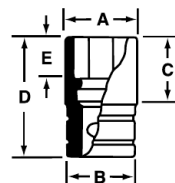
WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

3/8" Drive (Flank Drive®)



212FSMY



FM14



GFM9A

Shallow, mm

Set Contains:

212FSMY
212FMY

mm	6	12	12	A	B	C	D	E	6	12
6	FSM61			9.1	17.2	11.1	23.0	5.6		
7	FSM71			10.4	17.2	11.1	23.0	5.6		
8	FSM81	FM8		11.6	17.2	11.1	23.0	6.4	•	•
9	FSM91	FM9	GFM9A	13.1	17.2	11.0	23.0	7.1	•	•
10	FSM101	FM10		14.3	17.2	11.0	23.0	7.1	•	•
11	FSM111	FM11		15.4	17.2	11.0	23.0	7.1	•	•
12	FSM121	FM12		16.5	17.2	11.9	23.8	8.1	•	•
13	FSM131	FM13		18.0	17.2	12.6	24.6	8.1	•	•
14	FSM141	FM14		19.6	18.6	13.2	26.2	9.1	•	•
15	FSM151	FM15		20.3	19.4	13.7	27.0	9.1	•	•
16	FSM161	FM16		21.1	20.2	15.0	27.8	10.4	•	•
17	FSM171	FM17		22.7	21.8	15.0	28.6	10.4	•	•
18	FSM181	FM18		24.3	23.2	15.7	28.6	10.9	•	•
19	FSM191	FM19		25.1	24.0	16.3	30.2	11.9	•	•
20	FSM201	FM20		26.3	25.3	16.6	30.9	12.4		
21	FSM211	FM21		27.4	26.4	17.4	31.8	12.2		
22	FSM221	FM22		28.3	27.2	17.4	32.5	13.2		
23	FSM231	FM23		29.9	28.8	18.2	33.8	13.2		
24	FSM241	FM24		31.5	30.5	19.0	35.0	14.4		
25	FSM251			32.3	31.3	19.8	35.3	14.5		
26	FSM261	FM26		33.8	32.9	20.6	37.0	14.3		

Sets shown include magnetic storage tray

224SFFSM Metric 6 Point Shallow/Deep Set. FSM81 to FSM191 shallow sockets (pg 26) plus SFSM8 to SFSM19 deep sockets (pg 27) (24 pcs) (8 to 19 mm).



211FSY



F201



GF201

Shallow, inches

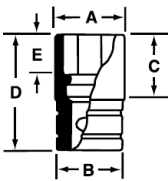
Set Contains:

211FSY
214FSY
211FY

	6	12	6	12	A	B	C	D	E	6	6	12
1/4	FS081	F081	GFS081	GF081	13/32	11/16	7/16	29/32	7/32	•	•	•
5/16	FS101	F101	GFS101	GF101	15/32	11/16	7/16	29/32	1/4	•	•	•
11/32	FS111	F111		GF111	1/2	11/16	7/16	29/32	9/32	•	•	•
3/8	FS121	F121	GFS121	GF121	9/16	11/16	7/16	29/32	9/32	•	•	•
7/16	FS141	F141	GFS141	GF141	5/8	11/16	7/16	29/32	9/32	•	•	•
1/2	FS161	F161	GFS161	GF161	23/32	11/16	1/2	15/16	5/16	•	•	•
9/16	FS181	F181	GFS181	GF181	25/32	3/4	1/2	1 1/32	3/8	•	•	•
19/32				GF191	13/16	25/32	9/16	1 1/16	3/8			
5/8	FS201	F201	GFS201	GF201	27/32	25/32	19/32	1 3/32	1/2	•	•	•
11/16	FS221	F221	GFS221	GF221	15/16	7/8	5/8	1 1/8	17/32	•	•	•
3/4	FS241	F241	GFS241	GF241	1	15/16	11/16	1 3/16	15/32	•	•	•
13/16	FS261	F261	GFS261	GF261	1 1/16	1	11/16	1 7/32	1/2	•	•	•
7/8	FS281	F281	GFS281	GF281	1 5/32	1 1/32	23/32	1 9/32	9/16	•	•	•
15/16	FS301	F301	GFS301	GF301	1 1/4	1 3/16	25/32	1 11/32	9/16	•	•	•
1	FS321	F321	GFS321	GF321	1 5/16	1 1/4	13/16	1 3/8	19/32			

Sets shown include magnetic storage tray

222SFFS 6 Point Shallow/Deep Set. FS081 to FS281 shallow sockets (except FS111) (pg 26) plus SFS081 to SFS281 deep sockets (except SFS111) (1/4 to 7/8") (22 pcs) (pg 27).



Semi Deep, mm

Set Contains:

mm	6	12	A	B	C	D	E	6
8	FSMS8	FMS8	11.4	17.2	29.3	41.3	7.1	•
9	FSMS9	FMS9	12.8	17.2	29.3	41.3	7.1	•
10	FSMS10	FMS10	14.3	17.2	29.3	41.3	7.9	•
11	FSMS11		15.7	17.2	29.3	41.3	9.7	•
12	FSMS12	FMS12	16.5	17.2	29.3	41.3	9.9	•
13	FSMS13	FMS13	17.9	17.2	23.2	41.3	10.7	•
14	FSMS14	FMS14	19.6	18.6	23.2	41.3	10.7	•
15	FSMS15	FMS15	20.3	19.4	23.2	41.3	10.7	•
16	FSMS16	FMS16	21.1	20.2	23.0	41.3	10.7	•
17	FSMS17	FMS17	22.6	21.8	23.0	41.3	11.2	•
18	FSMS18	FMS18	24.2	23.2	23.0	41.3	11.2	•
19	FSMS19		25.1	24.0	22.7	41.3	11.7	•

Sets shown include magnetic storage tray

Semi Deep, inches

Set Contains:

in	6	12	A	B	C	D	E	6
1/4	FSS081		13/32	11/16	1 1/8	1 5/8	7/32	•
9/32		FDS091	7/16	11/16	3/4	1 1/4	7/32	
5/16	FSS101	FDS101	15/32	11/16	1 1/8	1 5/8	9/32	•
3/8	FSS121	FDS121	9/16	11/16	1 1/8	1 5/8	5/16	•
7/16	FSS141	FDS141	5/8	11/16	1 1/8	1 5/8	3/8	•
1/2	FSS161	FDS161	23/32	11/16	31/32	1 5/8	13/32	•
9/16	FSS181	FDS181	25/32	23/32	31/32	1 5/8	13/32	•
5/8	FSS201	FDS201	27/32	51/64	31/32	1 5/8	13/32	•
11/16	FSS221	FDS221	15/16	7/8	31/32	1 5/8	7/16	•
3/4	FSS241	FDS241	1	15/16	31/32	1 5/8	15/32	•
25/32		FDS251	1 1/16	1 1/32	1 1/16	1 5/8	5/8	
13/16	FSS261	FDS261	1 1/16	1	31/32	1 5/8	1/2	•
7/8	FSS281		1 5/32	1 3/32	31/32	1 5/8	17/32	•
15/16		FDS301	1 1/4	1 7/32	1 3/16	1 3/4	23/32	
1		FDS321	1 5/16	1 9/32	1 1/4	1 3/4	3/4	

Set shown includes magnetic storage tray



Deep, mm

Set Contains:

mm	6	12	A	B	C	D	E	6	12
6	SFSM6	SFM6	9.1	17.2	42.0	54.0	5.6		
7	SFSM7	SFM7	10.5	17.2	42.0	54.0	5.6		
8	SFSM8	SFM8	11.4	17.7	42.0	54.0	7.1	•	•
9	SFSM9	SFM9	12.8	17.2	42.0	54.0	7.1	•	•
10	SFSM10	SFM10	14.3	17.2	42.0	54.0	7.9	•	•
11	SFSM11	SFM11	15.7	17.2	42.0	54.0	9.7	•	•
12	SFSM12	SFM12	16.5	17.2	42.0	54.0	9.9	•	•
13	SFSM13	SFM13	18.0	17.2	42.0	54.0	10.7	•	•
14	SFSM14	SFM14	19.6	18.6	43.3	60.3	10.7	•	•
15	SFSM15	SFM15	20.3	19.4	43.3	60.3	10.7	•	•
16	SFSM16	SFM16	21.1	20.0	43.3	60.3	10.7	•	•
17	SFSM17	SFM17	22.7	21.8	43.6	66.7	11.2	•	•
18	SFSM18	SFM18	24.3	23.2	49.0	66.7	11.2	•	•
19	SFSM19	SFM19	25.1	24.0	49.0	66.7	15.5	•	•
20	SFSM20		26.3	25.3	48.1	66.7	12.2		
21	SFSM21		27.5	26.4	47.6	66.7	12.4		

Sets shown include magnetic storage tray

Deep, inches

Set Contains:

in	6	12	6	12	A	B	C	D	E	6	12	12
1/4	SFS081	SF081	GSFS081	GSF081	15/32	11/16	1 11/16	2 1/8	1/4	•	•	•
9/32		SF091			7/16	11/16	1 5/8	2 1/8	7/32			
5/16	SFS101	SF101	GSFS101	GSF101	15/32	11/16	1 11/16	2 1/8	7/32	•	•	•
11/32	SFS111	SF111			1/2	11/16	1 11/16	2 1/8	9/32			
3/8	SFS121	SF121	GSFS121	GSF121	9/16	11/16	1 11/16	2 1/8	5/16	•	•	•
7/16	SFS141	SF141	GSFS141	GSF141	5/8	11/16	1 11/16	2 1/8	3/8	•	•	•
1/2	SFS161	SF161	GSFS161	GSF161	23/32	11/16	1 11/16	2 1/8	7/16	•	•	•
9/16	SFS181	SF181	GSFS181	GSF181	25/32	23/32	1 29/32	2 3/8	7/16	•	•	•
19/32		SF191			13/16	25/32	1 29/32	2 3/8	7/16			•
5/8	SFS201	SF201	GSFS201	GSF201	27/32	13/16	1 29/32	2 3/8	15/32	•	•	•
11/16	SFS221	SF221	GSFS221	GSF221	15/16	7/8	2 3/16	2 5/8	1/2	•	•	•
3/4	SFS241	SF241	GSFS241	GSF241	1	1	2 3/16	2 5/8	5/8	•	•	•
25/32		SF251			1 1/16	1 1/32	1 3/4	2 5/8	5/8			
13/16	SFS261	SF261	GSFS261	GSF261	1 1/16	1	2 1/4	2 3/4	5/8	•	•	•
7/8	SFS281	SF281	GSFS281	GSF281	1 5/32	1 1/8	2 1/4	2 3/4	23/32	•	•	•
15/16	SFS301	SF301	GSFS301	GSF301	1 1/4	1 3/16	2 1/4	2 3/4	23/32			•
1	SFS321	SF321	GSFS321	GSF321	1 5/16	1 1/4	2 1/4	2 3/4	13/16			•

Sets shown include magnetic storage tray



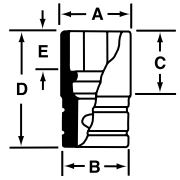
WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

3/8" Drive Low Profile



Low Profile, mm

mm	Set Contains:							210RAFSM	210RAFM	209RFSM
	6	12	A	B	C	D	E	6	12	6
8	RFSM8	RFM8	11.6	16.5		16.8	3.8	•	•	•
9	RFSM9	RFM9	13	16.5		17	4.1			
10	RFSM10	RFM10	14.3	16.5		17.3	4.3	•	•	•
11	RFSM11	RFM11	16	16.5		17.7	4.8			
12	RFSM12	RFM12	17.2	16.5	9.8	18.1	5.1	•	•	•
13	RFSM13	RFM13	18	17.2	10.3	18.5	5.6	•	•	•
14	RFSM14	RFM14	19.6	18.8	10.5	18.7	6.1	•	•	•
15	RFSM15	RFM15	20.4	19.6	10.8	19.1	6.6	•	•	•
16	RFSM16	RFM16	21.1	20.4	11.4	19.6	7.1	•	•	•
17	RFSM17	RFM17	22.8	22	11.9	20.1	7.4	•	•	•
18	RFSM18	RFM18	24.3	23.6	12.5	20.8	7.9	•	•	•
19	RFSM19	RFM19	25.1	16.5	13.3	21.5	8.2			
20	RAF80	Low Profile Ratchet						•	•	

Sets shown include storage tray



Low Profile, inches

in	Set Contains:							210RARF	209RF
	12		A	B	C	D	E	12	12
1/4	RF081		.46	.65		.66	.11	•	•
5/16	RF101		.46	.65		.66	.15	•	•
11/32	RF111		.49	.65		.68	.17		
3/8	RF121		.56	.65		.69	.18	•	•
7/16	RF141		.61	.65		.70	.19	•	•
1/2	RF161		.71	.69	.39	.72	.21	•	•
9/16	RF181		.77	.74	.42	.75	.24	•	•
5/8	RF201		.83	.80	.47	.79	.28	•	•
11/16	RF221		.93	.90	.49	.81	.30	•	•
3/4	RF241		.99	.96	.50	.82	.31	•	•
	RAF80	Low Profile Ratchet						•	

Sets shown include storage tray

3/8" Drive (Blue-Point®)



BLPSM389



BLPSM3815



BLPSM3822



BLPS3838



BLPS3878



BLPLM3810



BLPLM3816



BLPLM3822

Shallow, mm

mm	6	Length, mm
6	BLPSM386	25.5
7	BLPSM387	25.5
8	BLPSM388	25.5
9	BLPSM389	25.5
10	BLPSM3810	25.5
11	BLPSM3811	25.5
12	BLPSM3812	25.5
13	BLPSM3813	25.5
14	BLPSM3814	27
15	BLPSM3815	27
16	BLPSM3816	27
17	BLPSM3817	27
18	BLPSM3818	27
19	BLPSM3819	29
20	BLPSM3820	29
21	BLPSM3821	29
22	BLPSM3822	31
23	BLPSM3823	31
24	BLPSM3824	31

Shallow, inches

mm	6	Length, inches
1/4	BLPS3814	1
5/16	BLPS38516	1
3/8	BLPS3838	1
7/16	BLPS38716	1
1/2	BLPS3812	1
9/16	BLPS38916	1 1/16
5/8	BLPS3858	1 1/16
11/16	BLPS381116	1 1/16
3/4	BLPS3834	1 5/32
13/16	BLPS381316	1 5/32
7/8	BLPS3878	1 7/32
15/16	BLPS381516	1 7/32
1	BLPS381	1 7/32

Deep, mm

mm	12	Length, mm
6	BLPLM386	64
7	BLPLM387	64
8	BLPLM388	64
9	BLPLM389	64
10	BLPLM3810	64
11	BLPLM3811	64
12	BLPLM3812	64
13	BLPLM3813	64
14	BLPLM3814	64
15	BLPLM3815	64
16	BLPLM3816	64
17	BLPLM3817	64
18	BLPLM3818	64
19	BLPLM3819	64
20	BLPLM3820	64
21	BLPLM3821	64
22	BLPLM3822	64
23	BLPLM3823	64
24	BLPLM3824	64

Deep, inches

mm	12	Length, inches
1/4	BLPL3814	2 17/32
5/16	BLPL38516	2 17/32
3/8	BLPL3838	2 17/32
7/16	BLPL38716	2 17/32
1/2	BLPL3812	2 17/32
9/16	BLPL38916	2 17/32
5/8	BLPL3858	2 17/32
11/16	BLPL381116	2 17/32
3/4	BLPL3834	2 17/32
13/16	BLPL381316	2 17/32
7/8	BLPL3878	2 17/32
15/16	BLPL381516	2 17/32
1	BLPL381	2 17/32



BLPL3838



BLPL3834

3/8" Drive Torx® and Special Application



#	Stock No.	Length, inches
E4	BLPTE384	1 7/32
E5	BLPTE385	1 7/32
E6	BLPTE386	1 7/32
E7	BLPTE387	1 7/32
E8	BLPTE388	1 7/32
E10	BLPTE3810	1 7/32
E12	BLPTE3812	1 7/32
E14	BLPTE3814	1 7/32
E16	BLPTE3816	1 7/32
E18	BLPTE3818	1 7/32
E20	BLPTE3820	1 7/32



BLPTE3810



BLPTE3818



WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

3/8" Drive Torx® and Special Application



213AFLEY

Set Contains:

213AFLEY
210AFLEY

Torx/Shallow

#	Stock No.	A	B	C		
E8	FLE80A	15/32	11/16	1 5/32		
E10	FLE100A	1/2	11/16	1 5/32		•
E11	FLE110A	9/16	11/16	1 5/32	•	
E12	FLE120A	9/16	11/16	1 5/32	•	•
E14	FLE140A	5/8	11/16	1 5/32	•	•
E16	FLE160A	3/4	11/16	1 1/4		•
E18	FLE180A	13/16	25/32	1 5/16		•

Sets shown include magnetic storage tray

213AFLEY Combination Drive Shallow Torx Set.
Includes 1/4" drive TLE40A to TLE100A (pg 22), 3/8" drive FLE110A to FLE140A (pg 30) and 1/2" drive SLE160A to SLE240 (pg 40) (13 pcs) (E4 to E24).

210AFLEY Combination Drive Shallow Torx Set.
1/4" drive TLE40A to TLE80A (pg. 21) plus 3/8" drive FLE100A to FLE180A (except FLE110A) (pg 30) (10 pcs) (E4 to E18).

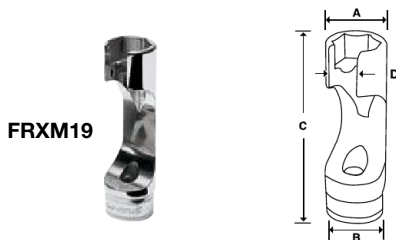


FLEL80

Long Torx Socket

#	Stock No.	Dimension A, Drive End Dia., inches	Dimension B, Socket End Dia., inches	Dimension C, Length, inches
E8	FLEL80	19/32	7/16	5

Application: Fits Delco® alternator Model CS130 found on both GM passenger and light trucks.



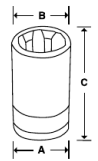
FRXM19

Set Contains:

210FRXM

Flank Drive® Flare Nut, mm

mm	Stock No.	A	B	C	D	
10	FRXM10	16.9	18.3	53.3	7.2	•
11	FRXM11	18.1	18.7	53.3	8.3	•
12	FRXM12	19.3	18.3	53.3	8.8	•
13	FRXM13	20.4	19.1	62.5	9.4	•
14	FRXM14	22.0	20.5	62.5	10.4	•
15	FRXM15	22.6	21.0	71.6	11.2	•
16	FRXM16	23.5	21.9	71.6	11.7	•
17	FRXM17	25.1	23.5	78.0	12.7	•
18	FRXM18	25.9	24.3	83.8	13.5	•
19	FRXM19	26.7	25.1	89.9	14.2	•



FLEP180



FLEPL100

Torx Plus®

#	Stock No.	A	B	C
EP18	FLEP180	3/4	13/16	1 5/16

FLEP180 Torx Plus Socket. Use to remove seat hold down nuts on 1999 and later GM® full size pickup trucks. 3/8" square drive.

FLEPL100 Torx Plus Socket. For removal and installation of low profile transmission bolts that secure the valve body to the inside of the transmission. To access the valve body, the bottom pan and filter, which are secured by 6 low profile Torx Plus 10EPL bolts, need to be removed. The low profile fasteners are used on the following GM 6 speed automatic transmissions: 6L50, 6L80, 6L90 and the BMW® model 6L45.



FLCE120

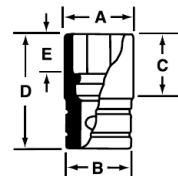
Shallow Torx with Countersink

#	Stock No.	Dimension A, Drive End Dia., inches	Dimension B, Socket End Dia., inches	Dimension C, Length, inches
E12	FLCE120	19/32	11/16	1 5/32

Application: Remove/install shallow countersink Torx fasteners that hold window regulators in place for BMW 5 & 7 Series.



F318



Double Square, inches

#	Stock No.	A	B	C	D	E
1/4	F308	1/2	21/32	3/8	27/32	7/32
5/16	F310	9/16	21/32	3/8	27/32	1/4
3/8	F312	21/32	11/16	15/32	15/16	9/32
7/16	F314	25/32	11/16	17/32	1	5/16
1/2	F316	7/8	25/32	17/32	1	5/16
9/16	F318	1	29/32	19/32	1 1/8	7/16
5/8	F320	1 1/16	31/32	19/32	1 1/8	7/16



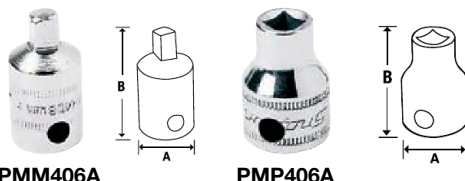
207FRX

Flank Drive/Flare Nut, inches

#	Stock No.	A	B	C	D	
3/8	FRX121	5/8	3/4	2 3/32	9/32	•
7/16	FRX141	23/32	3/4	2 3/32	11/32	•
1/2	FRX161	13/16	3/4	2 1/8	3/8	•
9/16	FRX181	7/8	13/16	2 15/32	13/32	•
5/8	FRX201	15/16	7/8	2 27/32	15/32	•
11/16	FRX221	1	15/16	3 7/32	1/2	•
3/4	FRX241	1 1/16	1	3 11/32	9/16	•

Set shown includes magnetic storage tray

3/8" Drive Torx® Special Application



PMM406A

PMP406A

Pipe Plug, mm

mm	Stock No.	A	B	Stock No.	A	B
6	PMM406A	16.4	31.0	PMP406A	17.2	25.8
8	PMM408A	17.2	31.0		17.2	28.6
10	PMM410A	17.2	28.4	PMP410A	18.8	25.4

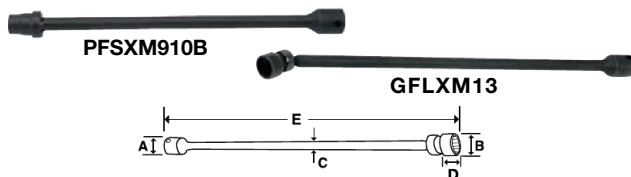
Flank Drive®/Pentagon (5 Point)

Stock No.	A	B	C
B2190	1 1/8	1/2	1 1/16



B2190

A specialty socket for servicing recessed 5 point nuts found on tamper resistant Buffalo covers used by gas, electric and some water companies to protect shutoff gates.



PFSXM910B

GFLXM13

Swivel Ball Extension, mm

mm	6	12	A	B	C	D	E
10	PFSXM910B		19.1	14.4	9.5	5.6	243.4
11	PFSXM911B		19.1	15.6	9.5	6.3	243.8
12	PFSXM912B		19.1	16.9	9.5	6.8	244.6
13	PFSXM913B		19.1	18.4	12.4	7.6	245.9
14	PFSXM914B		19.1	19.8	12.4	9.1	247.9
15	PFSXM915B		19.1	20.4	12.4	9.1	247.4
13		GFLXM13	19.1	19.1	17.3	9.5	320.3

PFSXM910B and PFSXM912B Applications: Toyota® and Lexus® vehicles transmission pan bolts plus several underdash applications. Volvo® vehicle: removing intake faster and easier.

GFLXM13 Applications: Removing water pumps and transmission bolts for Mercedes-Benz® vehicles. Various applications for Caterpillar® engines.



211PPPMY

Pipe Plug, inches

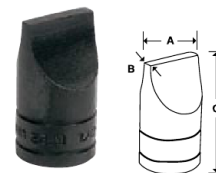
Size	Stock No.	B	Stock No.	B
3/16	PPM406A	1 1/8		1
1/4	PPM408A	1 1/8	PP408A	1
9/32	PPM409A	1 1/8	PP409A	1
5/16	PPM410A	1 1/8	PP410A	1
11/32	PPM411A	1 1/8	PP411A	1
3/8	PPM412A	1 1/8	PP412A	1

211PPPMY Internal/External Set. PPM406 to PPM412 external sockets plus PP408 to PP412 internal sockets (11 pcs) (3/16 to 3/8").

Drag Link

Stock No.	A	B	C
GF22	11/16	7/64	1 1/4

Applications include use on the engine oil fill cap on Kawasaki® UN1500, UN1600 and UN2000 motorcycles.



GF22

Weatherhead®

Size, inches	Stock No.	Finish	A	B
3/8	FD120	Chrome	11/16	1 1/4
7/16	FD140	Chrome	13/16	1 1/4
15/32	FD150	Chrome	7/8	1 1/4
1/2	FD160	Chrome	15/16	1 1/4
17/32	FD170	Chrome	1	1 1/4
9/16	FD180	Chrome	1 1/16	1 1/4
19/32	FD190	Chrome	1 1/16	1 1/4
21/32	FD210	Chrome	1 3/16	1 3/8
9/16	FD220	Chrome	1 3/16	1 3/8
3/4	FD240	Chrome	1 1/4	1 3/8
25/32	FD250	Chrome	1 1/4	1 3/8

3/8" Drive Torx Impact



#	Stock No.	Square Drive, In.	A	B	C	207IMFLE
E8	IMFLE80A	3/8	15/32	11/16	1 5/32	•
E10	IMFLE100A	3/8	1/2	11/16	1 5/32	•
E12	IMFLE120A	3/8	19/32	11/16	1 5/32	•
E14	IMFLE140A	3/8	5/8	11/16	1 5/32	•
E16	IMFLE160A	3/8	3/4	3/4	1 1/4	•
E18	IMFLE180A	3/8	25/32	25/32	1 5/16	•
E20	IMSLE200	1/2	15/16	15/16	1 1/2	•

Set shown includes magnetic storage tray

Various applications on heavy duty trucks with Mercedes-Benz engines.

Use E18 size for F550 brake rotor.

Use E20 size for rear brake caliper bolts on BMW® X5.



207IMFLE

- Impact sockets are heat treated to a lower hardness to add impact resistance
- Black oxide finish
- Designed to absorb repeated impact cycling
- Various applications on European vehicles found on BMW® and Mercedes-Benz European vehicles
- Various applications on heavy duty trucks with Mercedes-Benz engines
- E18 for F550 brake rotor
- E20 for rear brake caliper bolts on BMW X5



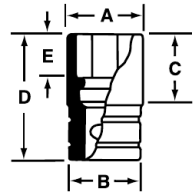
WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Use only moderate force on flare nut sockets
- Read safety precautions on pages W1 to W4

SOCKETS

3/8" Drive (Flank Drive®) Impact



Shallow, mm

mm	Set Contains:		214IMFMYA						
	6	12	A	B	C	D	E	6	12
8	IMFM8A	IMDFM8A	12.8	17.2	11.1	23.0	6.4	•	
9	IMFM9A		14.0	17.2	11.0	23.0	7.1	•	
10	IMFM10A	IMDFM10A	15.1	17.2	11.0	23.0	7.1	•	•
11	IMFM11A	IMDFM11A	16.7	18.8	11.6	23.8	7.1	•	
12	IMFM12	IMDFM12	18.8	18.0	11.6	23.8	7.1	•	•
13	IMFM13	IMDFM13	18.8 (19.4)	18.8 (19.4)	12.4 (10.9)	24.6 (23.8)	7.4 (7.6)	•	•
14	IMFM14	IMDFM14	20.4	20.4	13.5	27.0	9.1	•	•
15	IMFM15	IMDFM15	21.2	21.2	13.5	27.0	9.1	•	•
16	IMFM16	IMDFM16	22.7	22.7	14.1	27.8	10.4	•	
17	IMFM17	IMDFM17	24.3	24.3	14.4	28.2	10.2	•	•
18	IMFM18	IMDFM18	25.1	25.1	14.3	29.0	10.9	•	•
19	IMFM19	IMDFM19	26.7	26.7	15.6	30.6	11.7	•	
20	IMFM20	IMDFM20	28.3	28.3	16.5	30.9	12.2		
21	IMFM21	IMDFM21	28.8 (29.1)	28.8 (29.1)	17.5	29.5 (32.1)	12.2 (12.4)	•	
22	IMFM22	IMDFM22	29.9	29.9	18.3	32.9	13.0		
23	IMFM23		31.5	31.5	19.3	31.5	13.2		
24	IMFM24		32.6	32.6	21.1	33.0	14.5	•	

Shallow, inches

Inches	Set Contains:		212IMFYA						
	6	12	A	B	C	D	E	6	12
5/16	IMF100A		1/2	11/16	3/8	7/8	1/4	•	
3/8	IMF120A	IMDF120A	9/16	11/16	7/16	7/8	3/16	•	•
7/16	IMF140A	IMDF140A	21/32	3/4	7/16	15/16	9/32	•	•
1/2	IMF160	IMDF160	3/4	3/4	7/16	15/16	9/32	•	•
9/16	IMF180	IMDF180	13/16	13/16	7/16	15/16	9/32	•	•
5/8	IMF200	IMDF200	29/32	29/32	7/16	15/16	9/32	•	•
11/16	IMF220	IMDF220	31/32	31/32	9/16	11/32	3/8	•	•
3/4	IMF240	IMDF240	11/16	11/16	9/16	13/32	13/32	•	•
13/16	IMF260		11/8	11/8	11/16	13/16	1/2	•	
7/8	IMF280		13/16	13/16	3/4	19/32	1/2	•	
15/16	IMF300		19/32	19/32	13/16	15/16	17/32	•	
1	IMF320		111/32	19/32	13/16	15/16	9/16	•	

Sets shown include magnetic storage tray

Dimensions in () apply to 12 point sockets only. Sets shown include magnetic storage tray



Semi Deep, mm

mm	Set Contains:		212IMFMSYA					
	6	6	A	B	C	D	E	6
8	IMFMS8A		12.8	17.2	29.3	41.3	6.4	•
9	IMFMS9A		14.0	17.2	29.3	41.3	7.1	•
10	IMFMS10A		15.1	17.2	29.3	41.3	9.7	•
11	IMFMS11A		17.2	17.2	29.3	41.3	9.7	•
12	IMFMS12		18.0	18.0	29.3	41.3	9.7	•
13	IMFMS13		19.6	19.6	29.3	41.3	10.4	•
14	IMFMS14		20.4	20.4	29.3	41.3	10.4	•
15	IMFMS15		21.2	21.2	29.3	41.3	10.4	•
16	IMFMS16		22.7	22.7	29.3	41.3	10.4	•
17	IMFMS17		24.3	24.3	29.3	41.3	11.2	•
18	IMFMS18		25.1	25.1	29.3	41.3	11.2	•
19	IMFMS19		26.7	26.7	29.3	41.3	11.7	•
21	IMFMS21		29.2	25.1	29.3	65.7	12.4	•

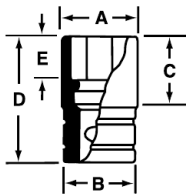
Semi Deep, inches

Inches	Set Contains:		210IMFSYA					
	6	6	A	B	C	D	E	6
5/16	IMFS10A		1/2	11/16	1 5/32	1 5/8	1/4	•
3/8	IMFS12A		9/16	11/16	1 5/32	1 5/8	9/32	•
7/16	IMFS14A		21/32	3/4	1 5/32	1 5/8	11/32	•
1/2	IMFS16		3/4	3/4	1 5/32	1 5/8	13/32	•
9/16	IMFS18		13/16	13/16	1 5/32	1 5/8	13/32	•
5/8	IMFS20		29/32	29/32	1 5/32	1 5/8	13/32	•
11/16	IMFS22		31/32	31/32	1 5/32	1 5/8	7/16	•
3/4	IMFS24		1 1/16	1 1/16	1 5/32	1 5/8	15/32	•
13/16	IMFS26		1 1/8	1 1/8	1 5/32	1 5/8	1/2	•
7/8	IMFS28		1 3/16	1 3/16	1 5/32	1 5/8	17/32	•

Set shown includes magnetic storage tray

Set shown includes magnetic storage tray

3/8" Drive (Flank Drive®) Impact



214SIMFMYA



SIMDFM14



212SIMFYA

SIMF260

Deep, mm

mm	Set Contains:		214SIMFMYA						
	6	12	A	B	C	D	E	6	12
8	SIMFM8A	SIMDFM8A	12.8	17.2	38.1	54.0	6.4	•	•
9	SIMFM9A	SIMDFM9A	14.0	17.2	38.1	54.0	7.1	•	•
10	SIMFM10A	SIMDFM10A	15.1	17.2	38.1	54.0	9.7	•	•
11	SIMFM11A	SIMDFM11A	17.2	17.2	38.1	54.0	9.7	•	•
12	SIMFM12	SIMDFM12	18.0	18.0	38.1	54.0	9.7	•	•
13	SIMFM13	SIMDFM13	19.6	19.6	38.1	54.0	10.4	•	•
14	SIMFM14	SIMDFM14	20.4	20.4	42.7	60.3	10.4	•	•
15	SIMFM15	SIMDFM15	21.2	21.2	42.7	60.3	10.4	•	•
16	SIMFM16	SIMDFM16	22.7	22.7	42.7	60.3	10.4	•	•
17	SIMFM17	SIMDFM17	24.3	24.3	47.0	66.7	11.2	•	•
18	SIMFM18	SIMDFM18	25.1	25.1	47.0	66.7	11.2	•	•
19	SIMFM19	SIMDFM19	26.7	26.7	47.0	66.7	14.2	•	•
20	SIMFM20		28.3	28.3	47.0	66.7	12.2		
21	SIMFM21	SIMDFM21	28.9	28.9	47.0	66.7	12.4	•	•
22	SIMFM22		29.9	29.9	51.6	73.0	13.0		
23	SIMFM23		31.5	31.5	51.6	73.0	13.0		
24	SIMFM24	SIMDFM24	33.0	33.0	58.2	73.0	14.7	•	•

Sets shown include magnetic storage tray

Deep, inches

Inches	Set Contains:		212SIMFYA						
	6	12	A	B	C	D	E	6	12
5/16	SIMF100A		1/2	11/16	1 1/2	2 1/8	3/16		•
3/8	SIMF120A		9/16	11/16	1 1/2	2 1/8	9/32	•	•
7/16	SIMF140A		21/32	3/4	1 1/2	2 1/8	5/16	•	•
1/2	SIMF160		3/4	3/4	1 1/2	2 1/8	3/8	•	•
9/16	SIMF180		13/16	13/16	1 1/2	2 3/8	7/16	•	•
5/8	SIMF200		29/32	29/32	1 1/2	2 3/8	7/16	•	•
11/16	SIMF220		31/32	31/32	1 1/2	2 5/8	1/2	•	•
3/4	SIMF240		1 1/16	1 1/16	1 1/2	2 5/8	9/16	•	•
13/16	SIMF260		1 1/8	1 1/8	2 1/16	2 3/4	9/16		•
7/8	SIMF280		1 3/16	1 3/16	2 1/16	2 3/4	9/16		•
15/16	SIMF300		1 9/32	1 9/32	2 1/32	2 3/4	9/16		•
1	SIMF320		1 11/32	1 11/32	2 3/16	2 3/4	5/8		•

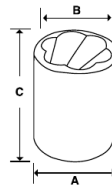
Sets shown include magnetic storage tray

3/8" Drive Impact/Special Purpose

Twist sockets remove rounded/damaged fasteners



209TFSMYA



213TFSYA

Twist, Shallow, inches/mm

Inches/mm	Set Contains:		209TFSMYA				
	6	12	A	B	C	6	6
3/8	TFSY121A		11/16 (17.5)	9/16 (14.3)	1 1/4 (31.8)		•
7/16 (11)	TFSY141A		11/16 (17.5)	21/32 (16.7)	1 1/4 (31.8)	•	•
1/2	TFSY161A		3/4 (19.1)	3/4 (19.1)	1 1/4 (31.8)		•
9/16	TFSY181A		13/16 (20.6)	13/16 (20.6)	1 1/4 (31.8)		•
5/8 (16)	TFSY201A		29/32 (23.0)	29/32 (23.0)	1 1/4 (31.8)	•	•
11/16	TFSY221A		31/32 (24.6)	31/32 (24.6)	1 3/8 (35.0)	•	•
3/4 (19)	TFSY241A		1 1/16 (27.0)	1 1/16 (27.0)	1 3/8 (35.0)	•	•
10	TFSY10A		11/16 (17.5)	19/32 (15.1)	1 1/4 (31.8)	•	•
12	TFSY12A		11/16 (17.5)	11/16 (17.5)	1 1/4 (31.8)	•	•
13	TFSY13A		3/4 (19.1)	3/4 (19.1)	1 1/4 (31.8)	•	•
14	TFSY14A		13/16 (20.6)	13/16 (20.6)	1 1/4 (31.8)	•	•
15	TFSY15A		13/16 (20.6)	27/32 (21.4)	1 1/4 (31.8)	•	•
17	TFSY17A		31/32 (24.6)	31/32 (24.6)	1 3/8 (35.0)	•	•

Sets shown include storage tray

Twist, Deep, inches/mm

Inches/mm	Set Contains:		213TFSYA			
	6	12	A	B	C	6
3/8	TFSY121A		11/16 (17.5)	9/16 (14.3)	2 1/8 (54.0)	•
7/16 (11)	TFSY141A		11/16 (17.5)	21/32 (16.7)	2 1/8 (54.0)	•
1/2	TFSY161A		3/4 (19.1)	3/4 (19.1)	2 1/8 (54.0)	•
9/16	TFSY181A		13/16 (20.6)	13/16 (20.6)	2 3/8 (60.3)	•
5/8 (16)	TFSY201A		29/32 (23.0)	29/32 (23.0)	2 3/8 (60.3)	•
11/16	TFSY221A		31/32 (24.6)	31/32 (24.6)	2 5/8 (66.7)	•
3/4 (19)	TFSY241A		1 1/16 (27.0)	1 1/16 (27.0)	2 5/8 (66.7)	•
10	TFSY10A		11/16 (17.5)	19/32 (15.1)	2 1/8 (54.0)	•
12	TFSY12A		11/16 (17.5)	11/16 (17.5)	2 1/8 (54.0)	•
13	TFSY13A		3/4 (19.1)	3/4 (19.1)	2 1/8 (54.0)	•
14	TFSY14A		13/16 (20.6)	13/16 (20.6)	2 3/8 (60.3)	•
15	TFSY15A		13/16 (20.6)	27/32 (21.4)	2 3/8 (60.3)	•
17	TFSY17A		31/32 (24.6)	31/32 (24.6)	2 5/8 (66.7)	•

Set shown includes storage tray



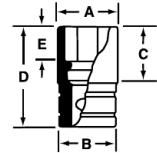
WARNING



• Read safety precautions on pages W1 to W4

SOCKETS

3/8" Drive Magnetic/Surface Drive/Special Purpose



MFIMM15



MFIM101

Shallow Magnetic, mm

mm	6	12	A	B	D	E
10	MFIMM10A	MFIMMD10	15.1	17.2	29.1 (28.6)	4.7 (7.1)
12	MFIMM12		18.1	19.1	28.6	3.7
13	MFIMM13		19.4	19.4	28.6	3.9
15	MFIMM15		21.6	21.8	28.6	3.9

Dimensions in () apply to 12 point sockets only.

MFIMMD10 Applications: For use on Detroit Diesel® 60 series. Use on the 3 camshaft gear thrust plate bolts located inside the camshaft gear cover within the front gear case on the engine. The technician has to go through the cover to start the bolts. If one is dropped, it is very labor intensive and time consuming to retrieve. Applies to 2002 and later 60 series *Detroit Diesel* engines with the compact gear case. Earlier engines with the tall gear case have 13 mm 6 point bolts. Please use MFIMM13 for this application.

Shallow Magnetic, inches

in	6	A	B	D	E
5/16	MFIM101	15/32	11/16	1 1/16	3/32
3/8	MFIM121	17/32	11/16	1 1/16	1/8
7/16	MFIM141	5/8	11/16	1 1/16	5/32
1/2	MFIM161	25/32	25/32	1 1/16	5/32
9/16	MFIM181	7/8	7/8	1 1/16	5/32



SMFIMM13B

Deep Magnetic Spring Loaded, mm

mm	6	A	B	D	E
10	SMFIMM10B	15.1	17.2	50.8	7.1
12	SMFIMM12B	18.1	19.1	50.8	7.1
13	SMFIMM13B	19.4	19.4	50.8	7.6



DFSM10



DFSM14

Deep, mm

mm	6	A	B	C	D	E
10	DFSM10	14.5	17.2	42.5	54.0	8.4

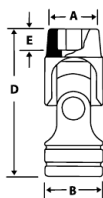
Deep, inches

in	6	A	B	C	D	E
7/16	DFSM14	21/32	11/16	1 21/32	2 1/8	11/32

Deep Surface Drive

Use in the industrial market for assembly line work. The lead in chamfer and special design of these sockets will engage with a fastener while rotating on a power nut runner.

3/8" Drive (Flank Drive®) Universal



206FSUMA



FUM18A



206AFSA



FU16B

Shallow, mm

mm	Set Contains:		A	B	D	E	206FSUMA		206FU16B	
	6	12					6	12		
8	FSUM8A		11.9	17.2	43.1	6.4				
10	FSUM10A	FUM10A	14.0	18.1	43.5	6.4	•	•		
11	FSUM11A		15.3	18.1	43.5	7.1				
12	FSUM12A	FUM12A	16.8	18.1	45.5	7.9	•	•		
13	FSUM13A	FUM13A	18.1	18.1	45.5	7.9	•	•		
14	FSUM14A	FUM14A	18.9	18.1	47.9	8.9	•	•		
15	FSUM15A	FUM15A	20.5	18.1	47.9	8.9	•	•		
16	FSUM16A	FUM16A	21.3	18.1	47.9	10.2			•	•
17	FSUM17A	FUM17A	22.9	18.9	50.7	10.4	•	•		
18	FSUM18A	FUM18A	24.5	18.9	50.7	10.7			•	•
19	FSUM19A	FUM19A	25.3	18.9	52.5	11.7				•
22	FSUM22A		28.4	18.9	53.9	13.0				

Sets shown include storage tray

Shallow, inches

in	Set Contains:		A	B	D	E	206AFSA		206FU16B	
	6	12					6	12		
5/16		FU10B	15/32	11/16	1 5/8	1/4				
3/8	FS12B	FU12B	17/32	11/16	1 5/8	1/4				
7/16	FS14B	FU14B	5/8	11/16	1 5/8	9/32	•	•		
1/2	FS16B	FU16B	23/32	11/16	1 11/16	9/32	•	•		
9/16	FS18B	FU18B	25/32	11/16	1 23/32	11/32	•	•		
5/8	FS20B	FU20B	27/32	11/16	1 25/32	3/8	•	•		
11/16	FS22B	FU22B	15/16	3/4	2	3/8	•	•		
3/4	FS24B	FU24B	1	3/4	2 1/16	7/16	•	•		
13/16		FU26B	1 3/32	3/4	2 3/32	15/32				
7/8		FU28B	1 5/32	3/4	2 3/32	1/2				
15/16		FU30A	1 1/4	3/4	2 9/32	9/16				
1		FU32A	1 5/16	3/4	2 9/32	9/16				

Sets shown include storage tray



206SFSUM



207FSU

Deep, mm

mm	Set Contains:		A	B	D	E	206SFSUM	
	6	6						
8	SFSUM8		11.9	17.2	63.6	6.9		
10	SFSUM10		14.4	18.1	63.6	7.4	•	
11	SFSUM11		15.6	18.1	63.6	7.6		
12	SFSUM12		17.1	18.1	63.6	8.1	•	
13	SFSUM13		18.1	18.1	63.6	8.4	•	
14	SFSUM14		18.9	18.1	63.6	9.1	•	
15	SFSUM15		20.5	18.1	63.6	9.7	•	
16	SFSUM16		21.3	18.1	63.6	10.4		
17	SFSUM17		22.9	18.9	63.6	10.9	•	
18	SFSUM18		24.5	18.9	63.6	10.9		
19	SFSUM19		25.3	18.9	63.6	11.9		

Set shown includes storage tray

Deep, inches

in	Set Contains:		A	B	D	E	207FSU	
	6	6						
3/8	FSU12		9/16	11/16	2 13/32	3/8	•	
7/16	FSU14		5/8	11/16	2 13/32	7/16	•	
1/2	FSU16		23/32	11/16	2 13/32	15/32	•	
9/16	FSU18		25/32	11/16	2 13/32	17/32	•	
5/8	FSU20		27/32	11/16	2 13/32	9/16	•	
11/16	FSU22		15/16	3/4	2 15/32	9/16	•	
3/4	FSU24		1	3/4	2 15/32	9/16	•	

Set shown includes storage tray



WARNING



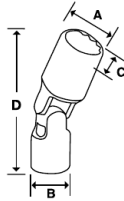
- Do not use chrome or industrial finish sockets with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

3/8" Drive Torx®/Universal



FSE180



Torx/Universal

#	Stock No.	A	B	C	D
E8	FSE80	3/8	11/16	9/32	1 5/8
E10	FSE100	15/32	11/16	5/16	1 11/16
E12	FSE120	9/16	11/16	11/32	1 25/32
E14	FSE140	5/8	11/16	13/32	1 7/8
E16	FSE160	23/32	3/4	15/32	2 1/16
E18	FSE180	13/16	3/4	1/2	2 1/16
E20	FSE200	15/16	3/4	9/16	2 1/8

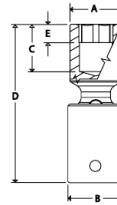
3/8" Drive (Flank Drive®)/Impact Swivel



207IPFM



IPDFM12A



205IPF

Shallow, mm

Set Contains:

207IPFM
212IPFM

mm	6	12	A	B	D	E	6	6
8	IPFM8C		13.2	22.2	49.8	6.4		•
9	IPFM9C		14.0	22.2	49.8	6.4		
10	IPFM10C	IPDFM10A	15.4	22.2	50.8	7.1	•	•
11	IPFM11C		16.7	22.2	52.1	7.1	•	•
12	IPFM12C	IPDFM12A	18.1	22.2	53.1	7.1	•	•
13	IPFM13C	IPDFM13A	18.9	22.2	54.1	7.9	•	•
14	IPFM14B	IPDFM14A	20.5	22.2	55.4	7.9	•	•
15	IPFM15C	IPDFM15A	21.2	22.2	56.4	7.9	•	•
16	IPFM16C	IPDFM16A	22.6	22.2	57.4	8.6		•
17	IPFM17C	IPDFM17A	23.4	23.0	62.2	8.6	•	•
18	IPFM18C	IPDFM18A	25.1	23.0	64.0	9.7	•	•
19	IPFM19C		26.4	23.0	65.0	10.4		•
21	IPFM21C		29.2	25.1	65.7	12.4		•
22	IPFM22C		29.9	23.0	68.1	13.0		

Sets shown include storage tray



207IPFSM

IPFSM21A

Semi Deep, mm

Set Contains:

207IPFSM

mm	6	A	B	D	E	6
8	IPFSM8A	12.8	22.2	62.5	6.4	
10	IPFSM10A	15.1	22.2	64.1	9.7	•
11	IPFSM11A	17.2	22.2	65.6	9.7	
12	IPFSM12A	18.0	23.0	70.9	9.7	•
13	IPFSM13A	19.6	23.0	71.9	10.4	•
14	IPFSM14A	20.4	23.0	72.9	10.4	•
15	IPFSM15A	22.0	23.0	74.4	10.4	•
16	IPFSM16A	22.7	23.0	74.9	10.4	
17	IPFSM17A	24.3	23.0	76.0	11.2	•
18	IPFSM18A	25.1	23.0	77.5	11.2	•
19	IPFSM19A	26.7	23.0	79.0	14.2	
21	IPFSM21A	29.2	25.1	77.7	12.4	

Set includes magnetic tray

Shallow, inches

Set Contains:

205IPF

11	6	12	A	B	D	E	6
3/8	IPF12C	IPDF12A	9/16	7/8	1 31/32	1/4	
7/16	IPF14C		21/32	7/8	2 1/16	9/32	•
1/2	IPF16C		3/4	7/8	2 1/8	5/16	•
9/16	IPF18C		13/16	7/8	2 3/16	5/16	•
5/8	IPF20C		7/8	7/8	2 1/4	11/32	•
11/16	IPF22C		31/32	29/32	2 17/32	13/32	
3/4	IPF24C		1 1/16	29/32	2 19/32	7/16	•

Set shown includes storage tray



IPLFM12B



IPLF18B

Deep, mm

Set Contains:

207IPLFM

mm	6	A	B	D	E	6
8	IPLFM8B	15.8	24.9	70.1	9.1	
10	IPLFM10B	15.8	24.9	70.1	9.1	•
12	IPLFM12B	16.6	24.9	70.1	9.7	•
13	IPLFM13A	18.8	22.2	79.5	10.4	•
14	IPLFM14A	20.4	22.2	81.0	10.4	•
15	IPLFM15A	21.2	22.2	82.6	10.4	•
16	IPLFM16A	23	25	86.1	10.4	
17	IPLFM17A	23.4	23.0	88.3	10.2	•
18	IPLFM18A	25.1	23.0	90.1	10.7	•
19	IPLFM19A	26.7	23.0	91.2	14.2	
21	IPLFM21A	29.2	25.3	92.2	12.4	

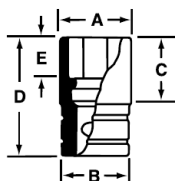
Set includes magnetic tray

Deep, inches

11	6	A	B	D	E
3/8	IPLF12B	9/16	7/8	2 15/16	1/4
7/16	IPLF14B	21/32	7/8	2 3/4	9/32
1/2	IPLF16B	3/4	7/8	2 3/4	5/16
9/16	IPLF18B	13/16	7/8	3 3/16	5/16
5/8	IPLF20B	7/8	7/8	3 1/4	11/32

SOCKETS

1/2" Drive (Flank Drive®)



310TWMYA

SWM241

Shallow, mm

mm	Set Contains:							Set Contains:					
	6	12	A	B	C	D	E	6	6	6	12	12	12
10	TWM10A	SWM101A	15.0	23.2	22.2	38.1	7.9	•	•	•			
11	TWM11A	SWM111A	16.6	23.2	22.2	38.1	8.7	•	•	•			
12	TWM12A	SWM121A	18.2	23.2	22.2	38.1	9.5	•	•	•	•	•	•
13	TWM13A	SWM131A	19.0	23.2	22.2	38.1	10.3	•	•	•	•	•	•
14	TWM14A	SWM141A	20.6	23.2	22.2	38.1	10.3	•	•	•	•	•	•
15	TWM15A	SWM151A	22.2	22.2	22.2	38.1	10.3	•	•	•	•	•	•
16	TWM16	SWM161	23.8	22.2	22.2	38.1	11.9	•	•	•	•	•	•
17	TWM17	SWM171	24.6	23.2	22.2	38.1	12.7	•	•	•	•	•	•
18	TWM18	SWM181	25.4	23.8	21.4	38.1	14.2	•	•	•	•	•	•
19	TWM19	SWM191	26.3	24.8	21.3	38.1	13.9	•	•	•	•	•	•
20	TWM20	SWM201	26.7	26.1	21.2	38.1	14.0		•	•	•	•	•
21	TWM21	SWM211	28.3	27.5	21.1	38.1	14.0		•	•	•	•	•
22	TWM22	SWM221	29.9	28.6	20.9	38.1	14.2		•	•	•	•	•
23	TWM23	SWM231	31.2	29.9	20.8	38.1	14.5		•	•	•	•	•
24	TWM24	SWM241	32.5	30.9	22.2	38.8	15.8		•	•	•	•	•
25	TWM25	SWM251	33.3	31.7	22.2	38.8	15.8		•	•	•	•	•
26	TWM26	SWM261	34.9	33.3	23.8	41.2	15.8		•	•	•	•	•
27	TWM27	SWM271	36.5	34.9	25.4	42.8	17.4		•	•	•	•	•
28	TWM28	SWM281	38.1	36.5	26.9	44.4	17.4		•	•	•	•	•
29	TWM29	SWM291	39.3	38.0	26.1	44.5	17.8		•	•	•	•	•
30	TWM30	SWM301	41.0	39.6	26.1	44.5	18.5		•	•	•	•	•
31	TWM31	SWM311	42.5	41.2	29.1	47.6	19.1		•	•	•	•	•
32	TWM32	SWM321	42.5	41.2	28.9	47.6	19.8		•	•	•	•	•



313TWYA

SW241

Sets shown include storage tray unless noted
*Does not include storage tray

Shallow, inches

II	Set Contains:							Set Contains:				
	6	12	6	12	A	B	C	D	E	6	6	12
3/8	TW121A	SW121A	GTW121A	GSW121A	19/32	29/32	7/8	1 1/2	5/16	•	•	•
7/16	TW141A	SW141A	GTW141A	GSW141A	11/16	29/32	7/8	1 1/2	11/32	•	•	•
1/2	TW161A	SW161A	GTW161A	GSW161A	3/4	29/32	7/8	1 1/2	13/32	•	•	•
9/16	TW181A	SW181A	GTW181A	GSW181A	13/16	29/32	7/8	1 1/2	13/32	•	•	•
5/8	TW201	SW201	GTW201	GSW201	15/16	7/8	7/8	1 1/2	15/32	•	•	•
11/16	TW221	SW221	GTW221	GSW221	31/32	29/32	7/8	1 1/2	1/2	•	•	•
3/4	TW241	SW241	GTW241	GSW241	1 1/32	31/32	7/8	1 1/2	9/16	•	•	•
13/16	TW261	SW261	GTW261	GSW261	1 1/8	1 1/16	7/8	1 1/2	9/16	•	•	•
7/8	TW281	SW281	GTW281	GSW281	1 3/16	1 1/8	7/8	1 1/2	25/32	•	•	•
15/16	TW301	SW301	GTW301	GSW301	1 9/32	1 7/32	27/32	1 17/32	3/4	•	•	•
1	TW321	SW321	GTW321	GSW321	1 11/32	1 9/32	7/8	1 9/16	3/4	•	•	•
1 1/16	TW341	SW341	GTW341	GSW341	1 7/16	1 3/8	1 1/16	1 11/16	3/4	•	•	•
1 1/8	TW361	SW361	GTW361	GSW361	1 1/2	1 7/16	1 31/32	1 3/4	1 3/16	•	•	•
1 3/16	TW381	SW381		GSW381	1 5/8	1 9/16	1 1/8	1 3/4	3/4			
1 1/4	TW401	SW401	GTW401	GSW401	1 11/16	1 5/8	1 1/4	1 7/8	3/4		•	
1 5/16	TW421	SW421		GSW421	1 3/4	1 11/16	1 1/4	1 7/8	1			
1 3/8	TW441	SW441		GSW441	1 13/16	1 3/4	1 7/16	2 1/16	1			
1 7/16	TW461	SW461			1 15/16	1 7/8	1 5/8	2 1/4	1			
1 1/2	TW481	SW481		GSW481	2	1 15/16	1 5/8	2 1/4	1			

Sets shown include storage tray



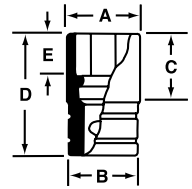
WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

1/2" Drive (Flank Drive®)



313TSMYA

SM24

Deep, mm

Set Contains:

mm	313TSMYA		310TSM		313SMYA		Set Contains:		313TSMYA		310TSM		313SMYA	
	6	12	A	B	C	D	E	6	6	12	6	6	12	
10	TSM10A	SM10A	15.0	23.2	66.7	82.6	7.9		•					
11		SM11A	16.6	23.2	66.7	82.6	8.7							
12	TSM12A	SM12B	18.2	23.2	66.7	82.6	9.5	•	•	•				
13	TSM13A	SM13A	19.0	23.2	66.7	82.6	10.3	•	•	•				
14	TSM14A	SM14A	20.6	23.2	66.7	82.6	10.3	•	•	•				
15	TSM15A	SM15A	22.2	22.2	66.7	82.6	10.3	•	•	•				
16	TSM16	SM16	23.8	22.2	51.0	82.6	11.9	•	•	•				
17	TSM17	SM17	24.6	23.2	51.0	82.6	12.7	•	•	•				
18	TSM18	SM18	25.4	23.8	51.0	82.6	14.3	•	•	•				
19	TSM19	SM19	26.3	24.6	52.5	82.6	14.2	•	•	•				
20	TSM20	SM20	26.7	26.1	58.5	82.6	14.0	•	•	•				
21	TSM21	SM21	28.3	27.5	58.5	82.6	14.0	•	•	•				
22	TSM22	SM22	29.9	28.6	58.5	82.6	14.2	•	•	•				
23	TSM23	SM23	31.2	29.9	58.0	82.6	14.5	•	•	•				
24	TSM24	SM24	32.5	30.9	50.0	82.6	15.8	•		•				
25	TSM25	SM25	33.3	31.7	50.0	82.6	15.8							
26	TSM26	SM26	34.9	33.3	50.0	82.6	15.8							
27	TSM27	SM27	36.2	34.9	50.0	82.6	17.5							
28	TSM28	SM28	37.8	36.5	50.0	82.6	17.5							
29	TSM29	SM29	39.3	38.0	64.3	82.6	17.8							
30	TSM30	SM30	41.0	39.6	64.0	82.6	18.5							
31	TSM31	SM31	42.5	41.2	64.0	82.6	19.1							
32	TSM32	SM32	42.5	41.2	63.8	82.6	19.8							

Sets shown include storage tray



313TSYA

S241

GS201

Deep, inches

Set Contains:



In	313TSYA		S241		GS201		Set Contains:		313TSYA		S241		GS201	
	6	12	6	12	A	B	C	D	E	6	6	12	6	12
3/8	TS121A	S121A	GTS121A		19/32	29/32	2 5/8	3 1/4	5/16	•	•	•		
7/16	TS141A	S141A	GTS141A		3/4	29/32	2 5/8	3 1/4	11/32	•	•	•		
1/2	TS161A	S161A	GTS161A	GS161A	3/4	29/32	2 5/8	3 1/4	13/32	•	•	•		
9/16	TS181A	S181A	GTS181A	GS181A	13/16	29/32	2 5/8	3 1/4	13/32	•	•	•		
5/8	TS201	S201	GTS201	GS201	15/16	7/8	1 31/32	3 1/4	15/32	•	•	•		
11/16	TS221	S221	GTS221	GS221	31/32	29/32	1 31/32	3 1/4	1/2	•	•	•		
3/4	TS241	S241	GTS241	GS241	1 1/32	31/32	2 5/8	3 1/4	9/16	•	•	•		
25/32		S251			1 1/16	1 1/32	2 1/8	3 1/4	5/8					
13/16	TS261	S261	GTS261	GS261	1 1/8	1 1/16	2 5/8	3 1/4	9/16	•	•	•		
7/8	TS281	S281	GTS281	GS281	1 3/16	1 1/8	2 5/8	3 1/4	9/16	•	•	•		
15/16	TS301	S301	GTS301	GS301	1 9/32	1 7/32	1 31/32	3 1/4	3/4	•	•	•		
1	TS321	S321	GTS321	GS321	1 11/32	1 9/32	1 31/32	3 1/4	3/4	•	•	•		
1 1/16	TS341	S341	GTS341	GS341	1 7/16	1 3/8	1 31/32	3 1/4	3/4	•	•	•		
1 1/8	TS361	S361	GTS361	GS361	1 1/2	1 7/16	1 31/32	3 1/4	1 3/16	•	•	•		
1 3/16	TS381	S381	GTS381	GS381	1 5/8	1 9/16	2 5/8	3 1/4	1 3/16					
1 1/4	TS401	S401	GTS401	GS401	1 11/16	1 5/8	2 5/8	3 1/4	1					
1 5/16	TS421	S421			1 3/4	1 11/16	2 9/16	3 1/4	1					
1 3/8	TS441	S441			1 13/16	1 3/4	2 9/16	3 1/4	1					
1 7/16	TS461	S461			1 15/16	1 7/8	2 5/8	3 1/4	1					
1 1/2	TS481	S481			2	1 15/16	2 5/8	3 1/4	1 1/16					

Sets shown include storage tray

ASME®/ANSI® B107.1

1/2" Drive (Flank Drive®)

Semi Deep, inches

		A	B	C	D	E
3/8	SDH121	19/32	7/8	13/16	1 1/2	9/32
7/16	SDH141	11/16	29/32	13/16	1 1/2	11/32
1/2	SDH161	3/4	29/32	13/16	1 1/2	3/8
9/16	SDH181	27/32	29/32	13/16	1 1/2	13/32
5/8	SDH201	29/32	7/8	13/16	1 1/2	15/32
11/16	SDH221	31/32	15/16	1 1/16	1 3/4	1/2
3/4	SDH241	1 1/16	1 1/32	1 1/16	1 3/4	19/32
13/16	SDH261	1 1/8	1 3/32	1 1/16	1 3/4	21/32
7/8	SDH281	1 3/16	1 5/32	1 1/8	1 3/4	23/32
15/16	SDH301	1 9/32	1 1/8	1 5/32	1 13/16	23/32
1	SDH321	1 11/32	1 5/16	1 7/32	1 7/8	3/4
1 1/16	SDH341	1 7/16	1 13/32	1 7/32	1 15/16	3/4
1 1/8	SDH361	1 1/2	1 15/32	1 1/4	1 31/32	25/32
1 3/16	SDH381	1 9/16	1 17/32	1 5/16	2	25/32
1 1/4	SDH401	1 9/16	1 17/32	1 9/32	2 1/32	13/16
1 5/16	SDH421	1 21/32	1 5/8	1 5/16	2 1/32	27/32



SDH201



320TSWMA

320TSWMA Metric 6 Point Shallow/Deep Set. Includes TWM10A to TWM19 shallow sockets (pg 37) and TSM10A to TSM20 deep sockets (pg 38) (20 pcs) (10 to 20 mm).

1/2" Drive (Blue-Point®)





BLPSM1216





BLPS1234

Shallow, mm

		Length
12	BLPSM1212	38.1
13	BLPSM1213	38.1
14	BLPSM1214	38.1
15	BLPSM1215	38.1
16	BLPSM1216	38.1
17	BLPSM1217	38.1
18	BLPSM1218	38.1
19	BLPSM1219	38.1
20	BLPSM1220	38.1
21	BLPSM1221	38.1
22	BLPSM1222	38.1
24	BLPSM1224	38.1

Shallow, inches

		Length
3/8	BLPS1238	1 1/2
7/16	BLPS12716	1 1/2
1/2	BLPS1212	1 1/2
9/16	BLPS12916	1 1/2
5/8	BLPS1258	1 1/2
11/16	BLPS121116	1 1/2
3/4	BLPS1234	1 1/2
13/16	BLPS121316	1 1/2
7/8	BLPS1278	1 1/2
15/16	BLPS121516	1 9/16
1	BLPS121	1 9/16
1 1/16	BLPSB121116	1 9/16
1 1/8	BLPSB12118	1 3/4
1 3/16	BLPSB121316	1 3/4
1 1/4	BLPSB12114	1 3/4



WARNING



- Do not use chrome or industrial finish sockets with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

1/2" Drive (Flank Drive®) Impact



SLEPL200

Torx Plus®/External

SLEPL200 Low Profile Torx Plus Socket. For removal and installation of low profile drive plate and flywheel bolts on QR25 Nissan® motors with automatic transmissions. It is similar to the J-45816 Nissan specialty tool. Size is 20EPL. 1/2" drive.

Please note: For flywheel bolts on QR25 Nissan motors with manual transmissions, use the 3/8" drive FTX50TPE T50 Torx Plus bit socket (pg 58).



213AFLEY

Torx®/Shallow

#	Stock No.	A	B	D
E14	SLE140	21/32	7/8	1 1/2
E16	SLE160A	23/32	27/32	1 1/2
E18	SLE180A	27/32	7/8	1 1/2
E20	SLE200A	15/16	7/8	1 1/2
E24	SLE240	1 1/16	1	1 1/2

213AFLEY Combination Drive Shallow Torx Set.

Includes 1/4" drive TLE40A to TLE100A (pg 22), 3/8" drive FLE110A to FLE140A (pg 30) and 1/2" drive SLE160A to SLE240 (pg 40) (13 pcs) (E4 to E24).



IMSLE200

Torx, Impact

#	Stock No.	A	B	D
E18	IMSLE180	29/32	29/32	1 1/2
E20	IMSLE200	15/16	15/16	1 1/2



BLPTE1220

Torx Plus®/External (Blue Point®)

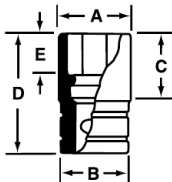
#	Stock No.	Length, inches
E18	BLPTE1218	1 1/2
E20	BLPTE1220	1 1/2
E22	BLPTE1222	1 1/2
E24	BLPTE1224	1 1/2

1/2" Drive Special Application

Double Square, inches



SW420



#	Stock No.	A	B	C	D	E
3/8	SW412	23/32	7/8	7/8	1 1/2	5/16
7/16	SW414	51/64	7/8	7/8	1 1/2	3/8
1/2	SW416	29/32	7/8	7/8	1 1/2	13/32
9/16	SW418	31/32	29/32	7/8	1 1/2	7/16
5/8	SW420	1 1/16	1	7/8	1 1/2	1/2
11/16	SW422	1 3/16	1 1/8	7/8	1 1/2	1/2
3/4	SW424	1 9/32	1 3/16	7/8	1 1/2	9/16
13/16	SW426	1 7/16	1 3/8	1	1 5/8	5/8
7/8	SW428	1 1/2	1 7/16	1 1/8	1 3/4	5/8
15/16	SW430	1 5/8	1 9/16	1 1/8	1 13/16	11/16
1	SW432	1 11/16	1 5/8	1 1/4	1 7/8	11/16

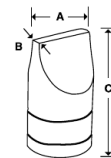
ASME®/ANSI® B107.1



WH290



A26A

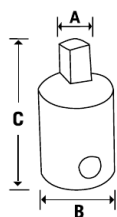


Weatherhead®, inches

#	Stock No.	A	B
7/8	WH280	1 3/8	1 13/16
29/32	WH290	1 7/16	1 13/16
15/16	WH300	1 1/2	1 13/16

Drag Link

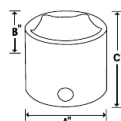
Stock No.	A	B	C
A26A	3/4	.109	1 11/16
A17A	15/16	.150	1 11/16
A15A	1 3/16	.150	1 11/16



PPM516A

Pipe Plug, inches

Stock No.	A	B	C
PPM516A	1/2	15/16	1 7/16



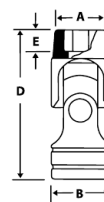
B2191

Flank Drive® Pentagon

Stock No.	A	B	C
B2191	1 1/8	1/2	1 1/16

B2191 Pentagon Socket. Services recessed 5 point nuts found on tamper resistant Buffalo covers used by gas, electric and water companies to protect shutoff gates.

1/2" Drive Special Application



SU24

Universal, inches

11	6	A	B	D	E
9/16	SU18	27/32	15/16	2 7/16	11/32
5/8	SU20	15/16	15/16	2 15/32	3/8
11/16	SU22	1 1/16	1 1/16	2 9/16	7/16
3/4	SU24	1 1/8	1 1/8	2 7/8	1/2
13/16	SU26	1 3/16	1 1/8	2 15/16	9/16
7/8	SU28	1 1/4	1 1/8	2 15/16	9/16
15/16	SU30	1 5/16	1 1/8	3	9/16

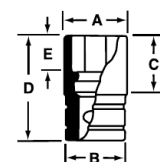
ASME/ANSI® B107.1

1/2" Drive Flank Drive Impact



315IMMYA

IMDM150A



Shallow, mm

mm	Set Contains:		A	B	C	D	E	315IMMYA			
	6	6						6	6		
10	IMM100A	IMDM100A	15	22.6	22.2	38.1	7.9	•		•	•
11	IMM110A	IMDM110A	18.2	22.6	22.2	38.1	8.7	•		•	•
12	IMM120A	IMDM120A	19	24.3	22.2	38.1	9.5	•		•	•
13	IMM130A	IMDM130A	20.6	24.3	22.2	38.1	10.3	•		•	•
14	IMM140A	IMDM140A	22.2	24.3	22.2	38.1	10.3	•		•	•
15	IMM150A	IMDM150A	23.8	26.4	22.2	38.1	10.3	•	•	•	•
16	IMM160A	IMDM160A	24.6	26.4	22.2	38.1	11.9	•	•	•	•
17	IMM170A	IMDM170A	25.4	26.7	22.2	38.1	12.7	•	•	•	•
18	IMM180	IMDM180	26.7	26.7	19.1	38.1	12.7	•	•	•	•
19	IMM190	IMDM190	28.3	28.3	21.3	38.1	12.7	•	•	•	•
20	IMM200	IMDM200	29.9	29.9	21.1	38.1	14.2	•	•	•	•
21	IMM210	IMDM210	31.5	31.5	21	38.1	14.2	•	•	•	•
22	IMM220	IMDM220	33.3	33.3	21.4	38.1	15.9	•	•	•	•
23	IMM230	IMDM230	34.1	34.1	27.8	44.5	15.9	•	•	•	•
24	IMM240	IMDM240	34.9	34.9	27.8	44.5	15.9	•	•	•	•
25	IMM250		29.8	29.8	27	44.5	15.9		•		
26	IMM260		38.1	38.1	33.3	50.8	15.9				
27	IMM270		39.4	39.4	27.1	50.8	20.3		•		
29	IMM290		41.1	41.1	33.3	50.8	21.1				
30	IMM300		42.7	42.7	32.1	50.8	21.6				
32	IMM320	IMDM320	45.8 (45.7)	45.8 (45.7)	32.1 (36.8)	50.8	22.4 (20.6)				
34	IMM340		47.6	42.9	40.5	52.4	22.4				
36	IMM360	IMDM360	50.5 (50.8)	45.8 (46.0)	40.5 (41.3)	57.2	22.4 (22.2)				
39		IMDM390	53.8	39.6	36.8	50.8	22.3				
46	IMM460		64.8	47.6	50.3	69.9	29.7				

Dimensions in () apply to 12 point sockets only.

Sets include storage tray

IMDM320 Applications: Uses include axle nuts on Mercedes-Benz® W140 chassis 1992 to 1999 SC and SL Class, Porsche® Boxster, Cayenne and 944 plus BMW® X3, X5 and X6 Series 2007 and later. Other uses include drive shaft nuts on VW® Touareg 2003 and later.

IMDM360 Applications: Use to remove pinion nuts on 2003 GM® and 2004 Dodge® Trucks with 11.5 AAM axles. Other uses include Duramax® Diesel Front Crankshaft bolts and late model BMW axle shafts.

IMDM390 Applications: Use on front axle hub of 2007 Toyota® Tundra.



WARNING



- Do not use chrome or industrial finish sockets with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

1/2" Drive (Flank Drive®) Impact



Shallow, inches

11	6	12	A	B	C	D	E	Set Contains:		
								311IMYA	313IMD	307IMDYA
3/8	IM120A	IMD120A	19/32	29/32	7/8	1 1/2	5/16	•	•	•
7/16	IM140A	IMD140A	23/32	29/32	7/8	1 1/2	11/32	•	•	•
1/2	IM160A	IMD160A	13/16	29/32	7/8	1 1/2	13/32	•	•	•
9/16	IM180A	IMD180A	7/8	29/32	7/8	1 1/2	13/32	•	•	•
5/8	IM200	IMD200	15/16	1	7/8	1 1/2	15/32	•	•	•
11/16	IM220	IMD220	1 1/16	1 1/16	3/4	1 1/2	1/2	•	•	•
3/4	IM240	IMD240	1 1/8	1 1/8	3/4	1 1/2	1/2	•	•	•
13/16	IM260	IMD260	1 1/4	1 1/4	3/4	1 1/2	1/2	•	•	
7/8	IM280	IMD280	1 5/16	1 5/16	13/16	1 1/2	9/16	•	•	
15/16	IM300	IMD300	1 3/8	1 3/8	1 1/16	1 3/4	3/4	•	•	
1	IM320	IMD320	1 7/16	1 7/16	1 1/16	1 3/4	3/4	•	•	
1 1/16	IM340		1 9/16	1 9/16	1	2	13/16			
1 1/8	IM360	IMD360	1 5/8	1 5/8	1	2	13/16		•	
1 3/16	IM380		1 11/16	1 1/2	1 3/32	2	13/16			
1 1/4	IM400	IMD400	1 3/4	1 1/2	1 5/32	2	13/16		•	
1 5/16	IM420H		1 7/8	1 1/2	1 3/8	2	7/8			
1 3/8	IM440		1 15/16	1 1/2	1 3/8	2	7/8			
1 7/16	IM460		2	1 1/2	1 3/8	2	15/16			
1 1/2	IM480		2 1/8	1 9/16	1 3/8	2	15/16			
1 9/16	IM500		2 1/4	1 5/8	1 11/16	2 5/16	15/16			

Sets shown include storage tray



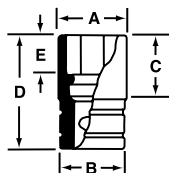
312IMMS

Semi Deep, mm

mm	6	A	B	D	E	Set Contains:
						312IMMS
15	IMMS150	23.7	23.7	55.9	10.7	•
16	IMMS160	24.4	24.4	55.9	11.9	•
17	IMMS170	25.3	25.3	55.9	11.2	•
18	IMMS180	26.8	26.8	55.9	12.7	•
19	IMMS190	28.5	28.5	55.9	14.2	•
20	IMMS200	30.0	30.0	55.9	14.2	•
21	IMMS210	31.6	31.6	55.9	14.2	•
22	IMMS220	33.2	33.2	60.4	14.2	•
23	IMMS230	34.0	34.0	60.4	16.2	•
24	IMMS240	34.9	34.9	60.4	15.5	•
25	IMMS250	36.3	36.3	60.4	16.2	•
27	IMMS270	39.6	39.6	60.4	20.3	•

Set shown includes storage tray

1/2" Drive (Flank Drive®) Impact



315SIMMYA

Deep, mm

mm	6	Set Contains:					6	6	6	6	6
		A	B	C	D	E					
10	SIMM100A	15.0	23.2	66.7	82.6	7.9	•		•		•
11	SIMM110A	18.2	23.2	66.7	82.6	8.7	•		•		•
12	SIMM120A	19.0	23.2	66.7	82.6	9.5	•		•		•
13	SIMM130A	20.6	23.2	66.7	82.6	10.3	•		•		•
14	SIMM140A	22.2	23.2	66.7	82.6	10.3	•		•		•
15	SIMM150A	23.8	23.8	50.0	82.6	10.3	•	•	•		•
16	SIMM160A	24.6	24.6	50.0	82.6	11.9	•	•	•		•
17	SIMM170A	25.1	25.1	57.9	82.6	11.2	•	•	•		•
18	SIMM180	26.7	26.7	61.0	82.6	12.7	•	•	•		•
19	SIMM190	28.3	28.3	61.0	82.6	14.2	•	•	•		•
20	SIMM200	29.9	29.9	61.0	82.6	14.2	•	•			•
21	SIMM210	31.5	31.5	61.0	82.6	14.2	•	•			•
22	SIMM220	33.1	33.1	71.6	88.9	15.7	•	•			•
23	SIMM230	33.1	33.1	64.3	88.9	15.9	•	•			•
24	SIMM240	34.9	34.9	63.5	88.9	15.9	•	•			•
25	SIMM250	36.5	36.5	63.5	88.9	15.9	•	•			•
26	SIMM260	34.9	33.3	50.0	88.9	19.8					•
27	SIMM270	39.4	39.4	71.0	88.9	20.3		•			•
28	SIMM280A	41.0	41.0	71.0	88.9	20.8					•
29	SIMM290	41.3	41.3	71.6	88.9	21.3				•	•
30	SIMM300	42.9	42.9	71.1	88.9	21.6				•	•
32	SIMM320	45.8	45.8	71.1	88.9	22.4					•
33	SIMM330	46.0	44.5	72.8	88.9	22.4					•
34	SIMM340	49.3	44.5	72.8	88.9	22.6				•	•
35	SIMM350	50.8	45.8	72.8	88.9	22.9				•	•
36	SIMM360	50.8	45.8	72.8	88.9	22.9				•	•

Sets shown include storage tray



313SIMA

Deep, inches

11	6	Set Contains:					6	6	6
		A	B	C	D	E			
3/8	SIM120A	19/32	29/32	2 5/8	3 1/4	5/16			•
7/16	SIM140A	23/32	29/32	2 5/8	3 1/4	11/32			•
1/2	SIM160A	13/16	29/32	2 5/8	3 1/4	3/8	•	•	•
9/16	SIM180A	7/8	29/32	2 5/8	3 1/4	13/32	•	•	•
5/8	SIM200	31/32	29/32	2 5/8	3 1/4	15/32	•	•	•
11/16	SIM220	1 1/16	1 1/16	2 5/8	3 1/4	1/2	•	•	•
3/4	SIM240	1 1/8	1 1/8	2 5/8	3 1/4	9/16	•	•	•
13/16	SIM260	1 1/4	1 1/4	2 5/8	3 1/4	19/32	•	•	•
7/8	SIM280	1 5/16	1 5/16	2 3/32	3 1/2	9/16	•	•	•
15/16	SIM300	1 3/8	1 3/8	2 3/32	3 1/2	3/4	•	•	•
1	SIM320	1 7/16	1 7/16	2 7/8	3 1/2	3/4	•	•	•
1 1/16	SIM340	1 9/16	1 9/16	2 11/16	3 1/2	25/32	•	•	•
1 1/8	SIM360	1 5/8	1 5/8	2 11/16	3 1/2	25/32	•	•	•
1 3/16	SIM380	1 11/16	1 1/2	2 11/16	3 1/2	25/32	•	•	•
1 1/4	SIM400	1 3/4	1 1/2	2 11/16	3 1/2	1	•	•	•
1 5/16	SIM420H	1 7/8	1 1/2	2 11/16	3 1/2	15/16			•
1 3/8	SIM440	2	1 1/2	2 11/16	3 1/2	15/16			•
1 7/16	SIM460	2	1 1/2	2 21/32	3 1/2	15/16			•
1 1/2	SIM480	2 1/8	1 9/16	2 5/8	3 1/2	15/16			•
1 9/16	SIM500	2 1/4	1 5/8	2 5/8	3 1/2	15/16			•

Sets shown include storage tray unless noted

*Does not include storage tray



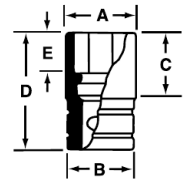
WARNING



• Read safety precautions on pages W1 to W4

SOCKETS

1/2" Drive (Flank Drive®) Impact



Shallow Thin Wall, inches

311IMFSY

Set Contains:
311IMFSY

		A	B	C	D	E	
3/8	IMFS120	19/32	7/8	3/8	1 1/2	7/32	•
7/16	IMFS140	11/16	7/8	9/16	1 1/2	11/32	•
1/2	IMFS160	3/4	7/8	5/8	1 1/2	3/8	•
9/16	IMFS180	13/16	7/8	11/16	1 1/2	13/32	•
5/8	IMFS200	29/32	29/32	3/4	1 1/2	15/32	•
11/16	IMFS220	1	1	13/16	1 1/2	1/2	•
3/4	IMFS240	1 1/16	1 1/16	13/16	1 1/2	1/2	•
13/16	IMFS260	1 1/8	1 1/8	25/32	1 1/2	1/2	•
7/8	IMFS280	1 7/32	1 7/32	29/32	1 1/2	9/16	•
15/16	IMFS300	1 5/16	1 5/16	1 3/16	1 17/32	3/4	•
1	IMFS320	1 3/8	1 3/8	1 3/16	1 9/16	3/4	•
1 1/16	IMFS340	1 7/16	1 7/16	1 1/4	1 11/16	13/16	•
1 1/8	IMFS360	1 1/2	1 1/2	1 1/4	1 3/4	13/16	•
1 3/16	IMFS380	1 5/8	1 5/8	1 1/4	1 3/4	13/16	•
1 1/4	IMFS400	1 11/16	1 11/16	1 1/4	1 7/8	13/16	•
1 5/16	IMFS420	1 3/4	1 3/4	1 1/4	1 7/8	13/16	•
1 3/8	IMFS440	1 13/16	1 13/16	1 1/4	2 1/16	13/16	•
1 7/16	IMFS460	1 29/32	1 29/32	1 3/8	2 1/16	13/16	•
1 1/2	IMFS480	2	2	1 3/8	2 1/16	13/16	•



SIMML150



Extra Deep, inches SIML200

Extra Deep, mm

		A	B	C	D	E
15	SIMML150	23.2	26.4	91.4	127.0	10.7



Extra Deep/Thin Wall, mm SIMMF21A

Sockets are 34% thinner than a standard thin wall socket. Use to access nut on long studs and other hard to reach areas. Ideal for wheel lugs.

		A	B	C	D	E
14	SIMMF14A	20.6	23.8	50.8	76.2	25.4
17	SIMMF17A	23.8	23.8	50.8	76.2	25.4
19	SIMMF19A	25.4	25.4	50.8	76.2	25.4
21	SIMMF21A	28.6	28.6	50.8	76.2	25.4
22	SIMMF22A	30.2	30.2	50.8	76.2	25.4

		A	B	C	D	E
1/2	SIML160*	25/32	15/16	4 1/4	5	3/8
9/16	SIML180	7/8	15/16	4 1/4	5	13/32
5/8	SIML200	31/32	1	4 1/4	5	15/32
11/16	SIML220	1 1/16	1 1/16	4 1/4	5	1/2
3/4	SIML240	1 1/8	1 1/8	4 1/4	5	9/16
13/16	SIML260	1 1/4	1 1/4	4 1/4	5	19/32
7/8	SIML280	1 5/16	1 5/16	4 1/4	5	21/32
15/16	SIML300	1 3/8	1 3/8	4 1/4	5	23/32
1	SIML320	1 7/16	1 7/16	4 3/8	5	3/4
1 1/16	SIML340	1 9/16	1 9/16	4 3/8	5	25/32
1 1/8	SIML360	1 5/8	1 5/8	4 3/8	5	25/32

*ASME®/ANSI® B107.2

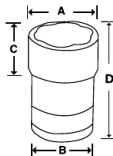
- Use for removing or replacing fuel tank retaining strap nuts
- Also has applications on emergency brake adjustment nuts and stabilizer retainers

1/2" Drive Special Application Impact



Twist/Shallow, inches TTWY281A

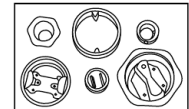
Removes rounded/damaged fasteners



SPS10



A172A



	Stock No.	A	B	C	D
3/4	TTWY241A	1 1/32	1	1	1 5/8
13/16	TTWY261A	1 1/8	1	1	1 5/8
7/8	TTWY281A	1 3/16	1 1/16	1	1 5/8
15/16	TTWY301A	1 1/4	1 3/16	1	1 5/8
1	TTWY321A	1 5/16	1 1/4	1	1 5/8

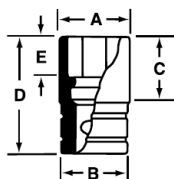
305TTWYA Shallow Twist Set. TTWY241A to TTWY321A (5 pcs) (3/4 to 1").

Shackle Pin

Designed with an oval configuration to service shackle pins on International Harvester® and Kenworth® semi trucks.
SPS10 41/64" x 1 3/32" x 1 3/4" long.
SPS11 21/32" x 1 17/32" x 1 3/4" long

Drum Plug

A172A One socket removes virtually all screws in drum plugs or caps. Spring loaded inner wrench handles smaller plugs and recesses automatically when removing large plugs. Use with a 1/2" drive ratchet or impact wrench.



SIP18A

Deep Swivel, inches

		A	B	D	E
9/16	SIP18A	13/16	1 3/16	3 13/16	11/32
3/4	SIP24A	1 1/32	1 3/16	4 1/4	7/16

1/2" Drive Special Application Impact

Semi Deep Swivel, mm

		A	B	C	D	E
15	IPSM15	23.0	25.1		65.7	12.4
18	IPSM18	26.5	31.5		89.1	12.7
21	IPSM21	30.0	31.5	33.8	89.2	12.7
22	IPSM22	32.4	31.5		89.1	12.7



IPSM21

IPSM21 Metric Semi Deep Impact Swivel Socket.

Designed for GM® and Ford® upper control arm bolts. Welded pivot pin reinforces socket wall and allows full 30° of uninterrupted smooth action for efficient power transfer at any angle.

1/2" Drive (Flank Drive®)/Surface Drive



SPM19

Flank Drive Deep, mm

		A	B	C	D	E
17	SPM17	24.6	24.6	66.6	82.6	12.7
19	SPM19	26.4	26.4	64.8	82.6	11.9
21	SPM21	28.3	28.3	64.8	82.6	12.3



DTM15A

Surface Drive Shallow, mm

		A	B	C	D	E
15	DTM15A	22.3	22.9	21.3	38.1	10.7



DTSM13A

Surface Drive Deep, mm

Surface drive sockets will engage with a fastener while rotating on a power nut runner

		A	B	C	D	E
13	DTSM13A	19.3	21.8	65.8	82.6	10.2
15	DTSM15A	22.3	21.8	65.8	82.6	10.7



DTS16A

Surface Drive Deep, inches

		A	B	C	D	E
1/2	DTS16A	3/4	29/32	2 19/32	3 1/4	13/32
9/16	DTS18A	13/16	29/32	2 19/32	3 1/4	13/32

1/2" Drive Special Application Power



P412

Shallow Double Square, inches

		A	B	C	D	E
3/8	P412	13/32	7/8	7/8	1 1/2	5/16
7/16	P414	13/16	15/16	7/8	1 1/2	3/8
1/2	P416	29/32	1	7/8	1 1/2	5/16
9/16	P418	1	1 1/8	7/8	1 1/2	1/2
5/8	P420	1 3/32	1 3/16	7/8	1 1/2	1/2
11/16	P422	1 7/32	1 1/4	7/8	1 1/2	13/32
3/4	P424	1 5/16	1 3/8	7/8	1 1/2	9/16
13/16	P426	1 7/16	1 7/16	7/8	1 1/2	5/8
7/8	P428	1 1/2	1 1/2	1 1/32	1 3/4	5/8
1	P432	1 23/32	1 3/4	1 1/8	1 3/4	3/4



SIPR426

Deep Double Square, inches

		A	B	C	D	E
13/16	SIPR426	1 7/16	1 3/8	2 9/16	3 1/4	5/8
1	SIPR432	1 3/4	1 1/2	2 11/16	3 1/2	3/4
1 1/8	SIPR436	1 15/16	1 51/64	2 23/32	3 1/2	27/32



SIPRL436

Extra Deep Double Square, inches

		A	B	C	D	E
1 1/8	SIPRL436	1 15/16	1 1/2	4 13/32	5	27/32



MPK121A

Flank Drive/Magnetic, inches

		A	B	D	E
3/8	MPK121A	19/32	7/8	1 1/2	1/8
7/16	MPK141A	11/16	7/8	1 1/2	5/32
1/2	MPK161A	25/32	15/16	1 1/2	5/32
9/16	MPK181A	7/8	15/16	1 1/2	5/32



WARNING



• Do not use chrome or power sockets with impact drivers
• Read safety precautions on pages W1 to W4

SOCKETS

1/2" Drive (Flank Drive®) Impact Swivel



307IPLMY

IPDLM12

Shallow Swivel, mm

mm	Set Contains:		A	B	D	E	Set Contains:	
	6	12					6	6
10	IPLM10C		15.6	23.8	73.7	9.7		•
11	IPLM11C		17.8	23.8	73.7	9.7		•
12	IPLM12C	IPDLM12	18.9	23.8	73.7	9.7		•
13	IPLM13C	IPDLM13A	19.7	23.8	73.7	8.6		•
14	IPLM14C		21.3	23.8	73.7	8.6	•	•
15	IPLM15C		22.6	23.8	73.7	8.6	•	•
16	IPLM16C	IPDLM16A	24.1	30.2	77.8	10.4		•
17	IPLM17C	IPDLM17A	25.6	30.2	77.7	10.4	•	•
18	IPLM18C	IPDLM18A	26.7	30.2	77.7	10.4	•	•
19	IPLM19C		28.3	30.2	77.7	11.2	•	•
21	IPLM21C		31.5	30.2	77.7	12.7	•	•
22	IPLM22C		33.1	30.2	77.8	14.2		•
24	IPLM24C		34.8	30.2	81.0	15.0	•	•

Sets shown include storage tray



307IPLY

Shallow Swivel, Inches

In	Set Contains:		A	B	D	E	Set Contains:	
	6	12					6	6
1/2	IPL16C	IPDL16	25/32	1 1/16	2 29/32	11/32		•
9/16	IPL18C		7/8	1 1/16	2 29/32	11/32	•	•
5/8	IPL20C	IPDL20	31/32	1 1/16	2 31/32	11/32	•	•
11/16	IPL22C		1 1/16	1 1/4	3 1/16	7/16	•	•
3/4	IPL24C		1 1/8	1 1/4	3 1/16	15/32	•	•
13/16	IPL26C		1 3/16	1 1/4	3 1/16	1/2		•
7/8	IPL28C		1 9/32	1 1/4	3 7/32	9/16	•	•
15/16	IPL30C		1 11/32	1 1/4	3 7/32	5/8	•	•
1	IPL32C		1 11/32	1 1/4	3 3/16	11/16		•
1 1/16	IPL34C		1 7/16	1 1/4	3 7/32	23/32		•
1 1/8	IPL36C		1 9/16	1 1/4	3 11/32	3/4	•	•
1 3/16	IPL38C		1 9/16	1 1/4	3 3/8	3/4		•
1 1/4	IPL40C		1 5/8	1 1/4	3 7/16	13/16		•
1 5/16	IPL42C		1 3/4	1 1/4	3 7/16	7/8		•

Sets shown include storage tray

3/4" Drive (Flank Drive)

Shallow, inches

In	12	A	B	C	D	E
3/4	LDH242	1 1/8	1 7/16	1 1/4	2	17/32
13/16	LDH262	1 7/32	1 7/16	1 1/4	2	11/16
7/8	LDH282	1 5/16	1 7/16	1 1/4	2	11/16
15/16	LDH302	1 3/8	1 7/16	1 1/4	2	23/32
31/32	LDH312	1 13/32	1 7/16	1 1/4	2	23/32
1	LDH322	1 15/32	1 1/2	1 5/16	2 1/16	3/4
1 1/16	LDH342	1 9/16	1 1/2	1 3/8	2 1/8	3/4
1 1/8	LDH362	1 5/8	1 1/2	1 7/16	2 3/16	13/16
1 3/16	LDH382	1 11/16	1 1/2	1 1/2	2 1/4	7/8
1 1/4	LDH402	1 3/4	1 1/2	1 1/2	2 1/4	15/16
1 5/16	LDH422A	1 7/8	1 3/4	1 9/16	2 1/2	7/8
1 3/8	LDH442	1 15/16	1 3/4	1 9/16	2 1/2	7/8
1 7/16	LDH462	2	1 3/4	1 5/8	2 1/2	15/16

ASME/ANSI B107.1

Shallow, inches



LDH482

In	12	A	B	C	D	E
1 1/2	LDH482	2 1/8	1 3/4	1 11/16	2 1/2	1 1/16
1 9/16	LDH502	2 3/16	1 3/4	1 7/8	2 5/8	1 5/32
1 5/8	LDH522	2 1/4	1 3/4	1 7/8	2 5/8	1 5/32
1 11/16	LDH542	2 3/8	1 3/4	2	2 3/4	1 3/16
1 3/4	LDH562	2 7/16	1 3/4	2	2 3/4	1 3/16
1 13/16	LDH582	2 1/2	1 3/4	2 1/8	2 7/8	1 1/4
1 7/8	LDH602	2 9/16	1 3/4	2 1/4	3	1 5/16
2	LDH642	2 3/4	1 3/4	2 3/8	3 1/8	1 3/8
2 1/16	LDH662	2 15/16	1 3/4	2 3/8	3 1/8	1 3/8
2 1/8	LDH682	2 15/16	1 3/4	2 1/2	3 1/4	1 7/16
2 3/16	LDH702	2 15/16	1 3/4	2 1/2	3 1/4	1 1/2
2 1/4	LDH722	3 1/8	1 3/4	2 5/8	3 3/8	1 1/2
2 3/8	LDH762	3 1/4	1 3/4	2 7/8	3 5/8	1 3/4

ASME/ANSI B107.1

3/4" Drive Special Application



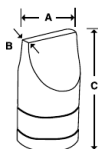
LDHM362

Shallow, mm

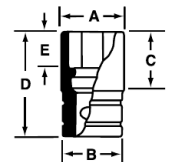
mm	12	A	B	C	D	E
22	LDHM222	31.1	34.6	30.2	50.8	17.1
24	LDHM242	33.4	34.6	31.8	50.8	17.9
27	LDHM272	37.3	39.5	31.8	54.0	19.9
30	LDHM302	41.0	39.8	34.0	57.2	21.8
36	LDHM362	49.3	41.2	35.1	58.7	22.1
41	LDHM412	55.1	44.5	42.9	66.5	26.7



GLD139



LS342



Deep, inches

In	6	A	B	C	D	E
1 1/16	LS342	1 9/16	1 1/2	2 3/4	3 1/2	1

Drag Link, inches

Stock No.	B x A	A	B	C
GLD138	13/64 x 1 3/8	1 3/8	13/64	2 3/16
GLD139	1/4 x 1 11/16	1 11/16	1/4	2 3/16

3/4" Drive (Flank Drive®) Impact



IMM302

Shallow, mm

mm	Set Contains:							
	6	12	A	B	C	D	E	6
17	IMM172A		29.2	41.1	27.2	50.8	13.7	•
18	IMM182A		31.6	41.1	27.2	50.8	12.7	•
19	IMM192A		31.8	41.1	27.2	50.8	13.7	•
20	IMM202A	IMMD202B	35.1	41.1	27.2	50.8	14.0	•
21	IMM212A		34.9	41.1	27.2	50.8	15.2	•
22	IMM222A		38.1	41.1	27.2	50.8	15.2	•
23	IMM232A		36.3	41.1	27.2	50.8	16.5	•
24	IMM242A		39.5	41.1	26.4	50.8	16.5	•
25	IMM252A		39.6	41.1	26.4	50.8	16.3	•
26	IMM262A		39.6	41.1	26.4	50.8	17.5	•
27	IMM272A		42.6	41.1	26.4	50.8	19.0	•
28	IMM282		44.7	41.1	32.8	57.2	17.5	•

mm	Set Contains:							
	6	12	A	B	C	D	E	6
29	IMM292		46.0	41.1	32.8	57.2	18.0	•
30	IMM302		47.0	44.5	32.8	57.2	19.1	•
31	IMM312		49.2	44.5	32.8	57.2	19.1	•
32	IMM322		50.8	44.5	32.8	57.2	20.6	•
33	IMM332		50.8	44.5	32.8	57.2	20.3	•
34	IMM342		50.8	44.5	32.8	57.2	22.4	•
35	IMM352		54.0	44.5	32.8	57.2	22.4	•
36	IMM362		54.0	44.5	32.8	57.2	22.4	•
38	IMM382		57.2	44.5	32.8	57.2	23.9	•
40	IMM402		59.7	44.5	45.5	69.9	28.4	•
41	IMM412		60.5	44.5	33.5	57.2	26.2	•
46	IMM462		66.7	44.5	45.5	69.9	29.0	•
50	IMM502		71.4	44.5	52.6	76.2	31.0	•

IMMD202B 12 Point Metric Shallow Impact Socket.
Specific applications include removing the head bolts on Caterpillar® C7, C8, C9 and C10 engines.



IM402



IMD302A

Shallow, inches

T1	Set Contains:												
	6	12	A	B	C	D	E	6	6	6	12	12	12
9/16	IM182A	IMD182A	1	1 5/8	1	1 3/4	7/16	•	•	•	•	•	•
5/8	IM202A	IMD202A*	1 3/32	1 5/8	1	1 3/4	1/2	•	•	•	•	•	•
11/16	IM222A	IMD222A	1 5/32	1 5/8	1	1 3/4	9/16	•	•	•	•	•	•
3/4	IM242A	IMD242A	1 1/4	1 5/8	1	1 3/4	9/16	•	•	•	•	•	•
13/16	IM262A	IMD262A	1 3/8	1 5/8	1 1/8	1 7/8	5/8	•	•	•	•	•	•
7/8	IM282A	IMD282A	1 1/2	1 5/8	1 1/8	1 7/8	5/8	•	•	•	•	•	•
15/16	IM302A	IMD302A*	1 9/16	1 5/8	1 1/8	1 7/8	3/4	•	•	•	•	•	•
1	IM322A	IMD322A*	1 5/8	1 5/8	1 1/4	2	3/4	•	•	•	•	•	•
1 1/16	IM342A	IMD342A	1 11/16	1 5/8	1 1/4	2	3/4	•	•	•	•	•	•
1 1/8	IM362	IMD362A	1 7/8	1 5/8	1 3/8	2 1/8	3/4	•	•	•	•	•	•
1 3/16	IM382	IMD382	1 7/8	1 5/8	1 5/16	2 1/8	3/4	•	•	•	•	•	•
1 1/4	IM402	IMD402	2	1 3/4	1 3/8	2 1/8	13/16	•	•	•	•	•	•
1 5/16	IM422	IMD422	2 1/8	1 3/4	1 1/2	2 1/4	7/8	•	•	•	•	•	•
1 3/8	IM442	IMD442	2 1/8	1 3/4	1 1/2	2 1/4	7/8	•	•	•	•	•	•
1 7/16	IM462	IMD462	2 1/4	1 3/4	1 1/2	2 1/4	7/8	•	•	•	•	•	•
1 1/2	IM482	IMD482	2 1/4	1 3/4	1 1/2	2 1/4	15/16	•	•	•	•	•	•
1 9/16	IM502	IMD502	2 7/16	1 3/4	1 9/16	2 3/8	15/16	•	•	•	•	•	•
1 5/8	IM522	IMD522	2 7/16	1 3/4	1 5/8	2 3/8	7/8	•	•	•	•	•	•
1 11/16	IM542	IMD542	2 1/2	1 3/4	1 13/16	2 9/16	1	•	•	•	•	•	•
1 3/4	IM562	IMD562	2 1/2	1 3/4	1 13/16	2 9/16	1	•	•	•	•	•	•
1 13/16	IM582	IMD582	2 5/8	1 3/4	1 5/8	2 5/8	1 1/4	•	•	•	•	•	•
1 7/8	IM602	IMD602	2 5/8	1 3/4	1 3/4	2 3/4	1 1/8	•	•	•	•	•	•
1 15/16	IM622A	IMD622	2 3/4	1 3/4	1 9/16	2 27/32	1 3/32	•	•	•	•	•	•
2	IM642A	IMD642	2 7/8	1 3/4	1 15/16	2 7/8	1 1/8	•	•	•	•	•	•
2 1/16	IM662A	IMD662	3	1 3/4	1 7/8	2 7/8	1 3/16	•	•	•	•	•	•
2 1/8	IM682A	IMD682	3	1 3/4	1 3/4	3	1 1/4	•	•	•	•	•	•
2 3/16	IM702A	IMD702	3 1/4	1 3/4	2 3/16	3 3/16	1 5/16	•	•	•	•	•	•
2 1/4	IM722A	IMD722	3 1/4	1 3/4	2 3/16	3 3/16	1 3/8	•	•	•	•	•	•
2 3/8	IM762A	IMD762	3 1/2	1 3/4	2 3/8	3 1/2	1 7/16	•	•	•	•	•	•

* Applications include repair of heavy duty trucks and off road equipment, most diesel engines including Caterpillar and Cummins plus head bolts and bearing cap bolts.

IMD242A Applications: Most Caterpillar head bolts, Detroit Diesel® main bearing cap bolts, K19 Cummins® head bolts.



WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

3/4" Drive (Flank Drive®) Impact



SIMDM212

Deep, mm

mm	6	12	A	B	C	D	E
17	SIMM172		28.9	41.1	52.6	76.2	12.7
19	SIMM192		32.4	41.1	51.8	76.2	14.2
21	SIMM212	SIMDM212	34.2 (33.3)	41.1 (41.3)	37.5 (19)	76.2	14.2 (18.3)
22	SIMM222		35.8	41.1	37.4	76.2	14.2
23	SIMM232		35.8	41.1	37.2	76.2	16.3
24	SIMM242		37.7	41.1	37.0	76.2	16.5
26	SIMM262		39.6	41.1	36.7	76.2	16.3
27	SIMM272		42.8	41.1	38.4	76.2	19.1
30	SIMM302		46.8	41.1	58.2	82.6	18.5
32	SIMM322		50.8	44.5	58.9	82.6	19.1
33	SIMM332		52.4	44.5	57.4	82.6	22.4
35	SIMM352		52.7	44.5	57.2	82.6	21.6
36	SIMM362		54.0	44.5	62.5	88.9	22.9
38	SIMM382		57.2	44.5	65.3	88.9	23.8
41	SIMM412*		55.1	44.5	74.9	100.1	26.7

* Applications include usage on stud piloted, budd style wheels.

Dimensions in () apply to 12-point sockets only.

SIMDM212 Application: Flywheel bolts on Cummins® ISX engines.



423SIM

Set Contains:

423SIM

Deep, inches

11	6	A	B	C	D	E	6
9/16	SIM182	1	1 5/8	2 1/16	3	9/16	•
5/8	SIM202	1 1/16	1 5/8	2 1/16	3	9/16	•
11/16	SIM222	1 1/8	1 5/8	2 1/16	3	9/16	•
3/4	SIM242	1 1/4	1 5/8	2	3	9/16	•
13/16	SIM262	1 3/8	1 5/8	2	3	5/8	•
7/8	SIM282	1 1/2	1 5/8	2	3	5/8	•
15/16	SIM302	1 5/8	1 5/8	2	3	5/8	•
1	SIM322	1 5/8	1 5/8	2	3	11/16	•
1 1/16	SIM342	1 3/4	1 5/8	2	3	11/16	•
1 1/8	SIM362	1 3/4	1 5/8	2	3	3/4	•
1 3/16	SIM382	2	1 3/4	2 1/4	3 1/4	3/4	•
1 1/4	SIM402	2	1 3/4	2 1/4	3 1/4	7/8	•
1 5/16	SIM422	2 1/8	1 3/4	2 9/16	3 1/4	7/8	•
1 3/8	SIM442	2 1/8	1 3/4	2 1/4	3 1/4	7/8	•
1 7/16	SIM462	2 3/16	1 3/4	2 1/2	3 1/2	7/8	•
1 1/2	SIM482	2 1/4	1 3/4	2 1/2	3 1/2	15/16	•
1 9/16	SIM502	2 5/16	1 3/4	2 1/2	3 1/2	15/16	•
1 5/8	SIM522	2 7/16	1 3/4	2 1/2	3 1/2	15/16	•
1 11/16	SIM542	2 1/2	1 3/4	2 1/2	3 1/2	1	•
1 3/4	SIM562	2 1/2	1 3/4	2 1/2	3 1/2	1	•
1 13/16	SIM582	2 5/8	1 3/4	2 3/4	3 3/4	1 1/16	•
1 7/8	SIM602	2 11/16	1 3/4	2 3/4	3 3/4	1 1/8	•
2	SIM642A	2 13/16	1 3/4	2 3/4	3 3/4	1 1/8	•

Larger sizes available on special order.



Thin Wall, inches

		A	B	C	D	E
3/4	IMFDL242	1 3/8	1 5/8	4 3/4	5 3/4	1/2

Larger sizes available on special order.

IMFDL242 Deep Thin Wall Impact Socket

- Clearance on certain Caterpillar® head bolts requires a thin walled socket that needs to be a certain length
- Designed to remove the head bolts on *Caterpillar* C12, C15, C16 and 3406Es where the front 2 and back 2 head bolts are positioned under the valve covers
- Additional applications include Detroit Diesel® main bearing cap bolts and 19 mm head bolts on Mercedes-Benz® MBE904/MBE906 E R engines (2007 and later)



IMFDL242



IM243R



IM243P

3/4" Locking Rings and Pins

For use on SIM, IM, IMM and SIMM sockets and other sockets on this page.

Stock No.	Drive Size	Description	Use with
IM182R	3/4"	Rubber Locking Ring	All 3/4" Drive Sockets/Accessories
IMR2	3/4"	Socket Retainer	All 3/4" Drive Sockets/Accessories
Use the following for the IM124B Adaptor:			
IM243R	1"	Locking Ring	1" Drive Sockets/Accessories Up to 1 3/8"
IM243P	1"	Steel Locking Pin	1" Drive Sockets/Accessories Up to 1 3/8"

1" Drive (Flank Drive) Impact



IMM503

Shallow, 6 Point, mm

Set Contains: **516IMM**

mm		A	B	C	D	E	
27	IMM273	44.5	53.8	27.0	57.2	17.5	•
30	IMM303	47.8	53.8	27.0	57.2	17.5	•
32	IMM323	50.8	53.8	33.3	63.5	19.1	•
33	IMM333	52.3	53.8	33.3	63.5	22.4	•
36	IMM363	57.2	57.2	34.3	63.5	22.4	•
35	IMM353	53.8	53.8	33.5	63.5	22.4	•
38	IMM383	59.7	57.2	40.1	69.9	23.6	•
41	IMM413A	59.9	57.2	39.6	69.9	26.4	•
46	IMM463	69.9	60.5	44.2	76.2	30.0	•
50	IMM503	69.9	60.5	49.3	82.6	31.2	•
55	IMM553	82.6	60.3	46.7	82.6	31.8	•
60	IMM603	88.9	57.2	51.6	88.9	38.1	•
65	IMM653	92.1	60.5	63.8	101.6	45.7	•
70	IMM703	95.3	60.5	62.2	101.6	45.7	•
75	IMM753	104.8	60.5	67.1	108.0	51.6	•
80	IMM803	108.7	61.1	65.9	108.7	47.6	•



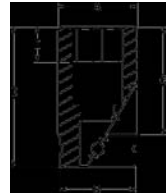
WARNING



• Read safety precautions on pages W1 to W4

SOCKETS

1" Drive (Flank Drive®) Impact



IM703

Shallow, 6 Point, inches

H	6	A	B	C	D	E	Set Contains:		
							521IM	516IM	522IM
3/4	IM243	1 7/16	2 1/8	1	2 1/8	1 1/16	•		
13/16	IM263	1 7/16	2 1/8	1	2 1/8	1 1/16	•		
7/8	IM283	1 1/2	2 1/8	1	2 1/8	1 1/16	•		
15/16	IM303	1 19/32	2 1/8	1	2 1/8	1 1/16	•		
1	IM323	1 11/16	2 1/8	1 1/16	2 1/4	1 1/16	•		
1 1/16	IM343	1 3/4	2 1/8	1 1/16	2 1/4	1 1/16	•		
1 1/8	IM363	1 7/8	2 1/8	1 1/16	2 1/4	1 1/16	•		
1 3/16	IM383	1 7/8	2 1/8	1 1/16	2 1/4	1 1/16	•		
1 1/4	IM403	2	2 1/8	1 3/16	2 3/8	3/4	•		
1 5/16	IM423	2 1/16	2 1/8	1 15/16	2 1/2	7/8	•		
1 3/8	IM443	2 1/8	2 1/8	1 15/16	2 1/2	7/8	•		
1 7/16	IM463	2 1/4	2 1/4	1 7/16	2 1/2	15/16	•		
1 1/2	IM483B	2 3/8	2 1/4	1 7/16	2 5/8	15/16	•		
1 9/16	IM503A	2 3/8	2 1/4	1 7/16	2 5/8	15/16	•		
1 5/8	IM523A	2 3/8	2 1/4	1 5/8	2 3/4	1 1/16	•		
1 11/16	IM543	2 9/16	2 3/8	1 5/8	2 3/4	1 1/16	•		
1 3/4	IM563	2 5/8	2 3/8	1 23/32	2 7/8	1 5/32	•		
1 13/16	IM583	2 3/4	2 3/8	1 23/32	2 15/16	1 3/16	•		
1 7/8	IM603	2 3/4	2 3/8	1 23/32	2 15/16	1 3/16	•		
1 15/16	IM623	2 3/4	2 3/8	1 23/32	2 15/16	1 3/16	•		
2	IM643	3	2 3/8	1 31/32	3 1/8	1 9/32	•		
2 1/16	IM663	3	2 3/8	1 31/32	3 1/8	1 9/32	•		
2 1/8	IM683	3 1/8	2 3/8	2 3/32	3 1/4	1 9/32	•		
2 3/16	IM703	3 1/4	2 3/8	2 5/32	3 11/32	1 7/16	•		
2 1/4	IM723	3 1/4	2 3/8	2 5/32	3 11/32	1 7/16	•		
2 5/16	IM743	3 3/8	2 3/8	2 5/32	3 1/2	1 1/2	•		
2 3/8	IM763	3 1/2	2 3/8	2 5/32	3 1/2	1 1/2	•		
2 7/16	IM783	3 1/2	2 3/8	2 5/32	3 1/2	1 1/2	•		
2 1/2	IM803	3 1/2	2 3/8	2 1/8	3 5/8	1 5/8	•		
2 9/16	IM823	3 5/8	2 3/8	2 1/8	3 5/8	1 5/8	•		
2 5/8	IM843	3 3/4	2 3/8	2 5/16	3 3/4	1 5/8	•		
2 11/16	IM863	3 3/4	2 3/8	2 1/2	4	1 13/16	•		

Shallow, 6 Point, inches

H	6	A	B	C	D	E	Set Contains:		
							521IM	516IM	522IM
2 3/4	IM883	3 3/4	2 3/8	2 7/16	4	1 13/16	•		
2 13/16	IM903	4	2 3/8	2 7/16	4	1 13/16	•		
2 7/8	IM923	4	2 3/8	2 7/16	4	1 13/16	•		
2 15/16	IM943	4 1/8	2 3/8	2 5/8	4 1/4	2	•		
3	IM963	4 1/4	2 3/8	2 5/8	4 1/4	2 1/16	•		
3 1/8	IM1003	4 1/4	2 3/8	2 9/16	4 1/4	2 1/16	•		
3 1/4	IM1043	4 1/2	2 3/8	2 9/16	4 1/4	2 1/16	•		
3 3/8	IM1083	4 5/8	2 3/8	2 3/4	4 1/2	2 1/4	•		
3 1/2	IM1123	4 3/4	2 3/8	3	4 3/4	2 1/4	•		
3 5/8	IM1163	5	2 3/8	2 15/16	4 3/4	2 5/16	•		
3 11/16	IM1183	5 5/16	2 3/8	3 3/16	5	2 7/16	•		
3 3/4	IM1203	5 1/8	2 3/8	2 7/8	4 3/4	2 3/8	•		
3 13/16	IM1223	5 3/8	2 3/8	3 1/8	5	2 1/2	•		
3 7/8	IM1243	5 1/4	2 3/8	3 1/8	5	2 9/16	•		
3 15/16	IM1263	5 3/8	2 3/8	3 3/8	5 1/4	2 9/16	•		
4	IM1283	5 1/2	2 3/8	3 1/16	5	2 9/16	•		
4 1/16	IM1303	5 1/2	2 3/8	3 1/16	5	2 9/16	•		
4 1/8	IM1323	5 9/16	2 3/8	3 1/16	5	2 9/16	•		
4 3/16	IM1343	6	2 3/8	3	5	2 9/16	•		
4 1/4	IM1363	5 3/4	2 3/8	3 1/4	5 1/4	2 5/8	•		
4 5/16	IM1383	5 25/32	2 3/8	3 7/16	5 1/2	2 5/8	•		
4 3/8	IM1403	5 13/16	2 3/8	3 3/16	5 1/4	2 5/8	•		
4 7/16	IM1423	6	2 3/8	3 3/16	5 1/4	2 11/16	•		
4 1/2	IM1443	6	2 3/8	3 3/16	5 1/4	2 5/8	•		
4 9/16	IM1463	6 1/2	2 3/8	3 7/16	5 1/2	2 3/4	•		
4 5/8	IM1483	6 7/16	2 3/8	3 7/8	6	3 1/16	•		
4 3/4	IM1523	6 5/8	2 3/8	3 5/8	5 3/4	2 7/8	•		
4 7/8	IM1563	7	2 3/8	3 9/16	5 3/4	3	•		
5	IM1603	7	2 3/8	3 1/2	5 3/4	3	•		
5 3/8	IM1723	7 1/2	2 3/8	4 7/16	6 3/4	3 9/16	•		
5 3/4	IM1843	8 1/4	2 3/8	4 5/16	6 3/4	3 9/16	•		



SIMM323

Deep, mm

mm	6	A	B	C	D	E
30	SIMM303	46.0	53.7	46.0	76.2	19.1
32	SIMM323	52.3	53.7	76.2	82.6	22.4
33	SIMM333*	52.3	53.7	53.3	82.5	22.4
38	SIMM383	60.3	57.2	59.7	88.9	25.4

* Applications include use on wheel lug nuts on Hub Piloted wheel systems.



SIM563

Deep, inches

Set Contains:
 519SIM
 520SIM
 517SIM

II	6	A	B	C	D	E			
7/8	SIM283	1 19/32	2 1/8	1 13/16	3	5/8	•		
15/16	SIM303	1 19/32	2 1/8	1 13/16	3	11/16	•		
1	SIM323	1 19/32	2 1/8	1 13/16	3	3/4	•		
1 1/16	SIM343	1 13/16	2 1/8	1 13/16	3	3/4	•		
1 1/8	SIM363	1 13/16	2 1/8	1 13/16	3	3/4	•		
1 3/16	SIM383	1 13/16	2 1/8	1 13/16	3	3/4	•		
1 1/4	SIM403	2 1/16	2 1/8	2 1/16	3 1/4	7/8	•		
1 5/16	SIM423*	2 1/16	2 1/8	2 1/16	3 1/4	7/8	•		
1 3/8	SIM443	2 1/16	2 1/8	2 1/16	3 1/4	7/8	•		
1 7/16	SIM463A	2 1/4	2 1/8	2 3/32	3 1/4	29/32	•		
1 1/2	SIM483B**	2 3/8	2 1/4	2 11/32	3 1/2	1	•		
1 9/16	SIM503A	2 3/8	2 1/4	2 11/32	3 1/2	1	•		
1 5/8	SIM523B	2 3/8	2 1/4	2 1/2	3 5/8	1	•		
1 11/16	SIM543	2 1/2	2 3/8	2 7/16	3 5/8	1 1/8	•		
1 3/4	SIM563	2 3/4	2 3/8	2 11/16	3 7/8	1 1/8	•		
1 13/16	SIM583	2 3/4	2 3/8	2 11/16	3 7/8	1 3/16	•		
1 7/8	SIM603	2 3/4	2 3/8	2 11/16	3 7/8	1 3/16	•		
1 15/16	SIM623	3	2 3/8	2 15/16	4 1/8	1 1/4	•		
2	SIM643	3	2 3/8	2 15/16	4 1/8	1 5/16	•		
2 1/16	SIM663	3	2 1/4	2 15/16	4 1/4	1 5/16		•	
2 1/8	SIM683	3 1/8	2 1/4	2 7/8	4 1/4	1 5/16		•	
2 3/16	SIM703	3 1/4	2 1/4	3 1/8	4 1/2	1 1/2		•	
2 1/4	SIM723	3 1/4	2 3/8	3 1/8	4 1/2	1 1/2		•	
2 5/16	SIM743	3 3/8	2 3/8	3 1/16	4 1/2	1 1/2		•	
2 3/8	SIM763	3 1/2	2 3/8	3 1/16	4 1/2	1 1/2		•	
2 7/16	SIM783	3 1/2	2 3/8	3 1/16	4 1/2	1 1/2		•	
2 1/2	SIM803	3 1/2	2 3/8	3 1/4	4 3/4	1 5/8		•	
2 9/16	SIM823	3 5/8	2 3/8	3 1/4	4 3/4	1 5/8		•	
2 5/8	SIM843	3 3/4	2 3/8	3 1/4	4 3/4	1 5/8		•	
2 11/16	SIM863	3 3/4	2 3/8	3 1/2	5	1 13/16		•	
2 3/4	SIM883	3 3/4	2 3/8	3 7/16	5	1 13/16		•	
2 13/16	SIM903	4	2 3/8	3 7/16	5	1 3/4		•	
2 7/8	SIM923	4	2 3/8	3 7/16	5	1 3/4		•	
2 15/16	SIM943	4 1/8	2 3/8	3 3/8	5	1 3/4		•	
3	SIM963	4 1/4	2 3/8	3 5/8	5 1/4	1 3/4		•	
3 1/8	SIM1003	4 1/4	2 3/8	3 9/16	5 1/4	1 7/8		•	
3 1/4	SIM1043	4 1/2	2 3/8	3 9/16	5 1/4	1 7/8		•	
3 3/8	SIM1083	4 1/2	2 3/8	4	5 3/4	2 1/4		•	
3 1/2	SIM1123	4 3/4	2 3/8	4	5 3/4	2 1/4		•	
3 5/8	SIM1163	5	2 3/8	3 15/16	5 3/4	2 1/4		•	
3 11/16	SIM1183	5 5/16	2 3/8	3 15/16	5 3/4	2 7/16		•	
3 3/4	SIM1203	5 1/8	2 3/8	3 7/8	5 3/4	2 1/4		•	
3 13/16	SIM1223	5 3/8	2 3/8	4 1/8	6	2 1/2		•	
3 7/8	SIM1243	5 1/4	2 3/8	4 3/8	6 1/4	2 9/16		•	
3 15/16	SIM1263	5 1/2	2 3/8	4 3/8	6 1/4	2 3/8		•	
4	SIM1283	5 1/2	2 3/8	4 5/16	6 1/4	2 9/16		•	
4 1/16	SIM1303	5 1/2	2 3/8	4 5/16	6 1/4	2 1/2		•	
4 1/8	SIM1323	5 9/16	2 3/8	4 5/16	6 1/4	2 9/16		•	
4 3/16	SIM1343	6	2 3/8	4 1/4	6 1/4	2 1/2		•	
4 7/16	SIM1423	6	2 3/8	4 3/16	6 1/4	2 11/16		•	
4 1/2	SIM1443	6	2 3/8	4 7/16	6 1/2	2 3/4		•	
4 9/16	SIM1463	6 1/2	2 3/8	4 7/16	6 1/2	2 3/4		•	
4 5/8	SIM1483	6 5/8	2 3/8	4 3/8	6 1/2	2 13/16		•	
4 3/4	SIM1523	6 5/8	2 3/8	4 5/8	6 3/4	2 7/8		•	
4 7/8	SIM1563	7	2 3/8	4 9/16	6 3/4	3		•	
5	SIM1603	7	2 3/8	4 1/2	6 3/4	3		•	
5 3/8	SIM1723	7 1/2	2 3/8	5 7/16	7 3/4	3 9/16		•	
5 3/4	SIM1843	8 1/4	2 3/8	5 5/16	7 3/4	3 9/16		•	

* Applications include use on heavy duty wheel lug nuts.

** Applications include use on wheel lug nuts on stud piloted/budd style wheel systems.

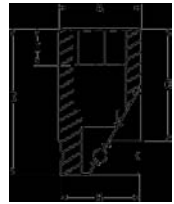


WARNING




• Read safety precautions on pages W1 to W4

1" Drive Special Application Impact



IM724

Shallow Single Square, inches

	4	A	B	C	D	E
3/4	IM724	1 15/16	2 1/8	31/32	2 1/8	21/32
13/16	IM726	1 15/16	2 1/8	31/32	2 1/8	21/32
7/8	IM728	2 1/16	2 1/8	31/32	2 1/8	21/32
15/16	IM730	2 1/16	2 1/8	15/16	2 1/8	5/8
1	IM732	2 1/8	2 1/8	1 3/32	2 1/4	25/32
1 1/8	IM736	2 1/4	2 1/4	1 3/32	2 1/4	25/32



IM740

Shallow Double Square, inches

	8	A	B	C	D	E
1 1/4	IM740	2 3/8	2 3/8	1 1/8	2 3/8	13/16



IM243R



IM243P

1" Drive Locking Rings and Pins


Stock No.	Drive Size	Description	Use with
IM483R	1" Spline	Rubber Locking Pin, use with IM243R	All Spline Drive Sockets/Accessories 1" Drive Sockets from 1 7/16" and from 35mm
IM243R	1"	Synthetic Rubber Locking Ring for IM243 to IM443 , and SIM233 to SIM353	1" Drive Sockets/Accessories up to 1 3/8" and up to 35mm
IM243P	1"	Steel Locking Pin, use with IM243R	1" Drive Sockets/Accessories up to 1 3/8" and up to 35mm
IMR3	1" Spline	Socket Retainer	All Spline Drive Sockets/Accessories All 1" Drive Sockets/Accessories
IM483P	1" Spline	Steel Locking Pin	All Spline Drive Sockets/Accessories 1" Drive Sockets from 1 7/16" and from 35mm

1 1/2" Drive Flank Drive® Impact

Shallow, mm



IMM365

	6	A	B	C	D	E
36	IMM365	73.0	82.6	34.5	76.2	25.4
38	IMM385	73.0	82.6	34.5	76.2	25.4
41	IMM415	73.0	82.6	34.5	76.2	27.7
46	IMM465	79.4	82.6	40.9	82.6	29.7
50	IMM505	79.4	82.6	47.2	88.9	31.8
55	IMM555	88.9	82.6	47.2	88.9	35.6
60	IMM605	94.5	82.6	58.2	101.6	38.6
65	IMM655	99.2	82.6	56.6	101.6	41.4
70	IMM705	105.6	82.6	61.7	108.0	45.7
75	IMM755	111.1	82.6	66.5	114.3	47.2

1 1/2" Drive (Flank Drive®) Impact





IM445

Shallow, inches

Set
Contains:

619MM
616MM
618MM
609MM

		A	B	C	D	E				
1 3/8	IM445	2 7/8	3 1/4	1 3/8	3	1	•			
1 7/16	IM465	2 7/8	3 1/4	1 3/8	3	1	•			
1 1/2	IM485	3	3 1/4	1 3/8	3	1	•			
1 9/16	IM505	3	3 1/4	1 3/8	3	1	•			
1 5/8	IM525	2 7/8	3 1/4	1 3/8	3	1 1/16	•			
1 11/16	IM545	3	3 1/4	1 3/8	3	1 1/16	•			
1 3/4	IM565	3 1/8	3 1/4	1 5/8	3 1/4	1 1/8	•			
1 13/16	IM585	3 1/8	3 1/4	1 5/8	3 1/4	1 3/16	•			
1 7/8	IM605	3 1/8	3 1/4	1 7/8	3 1/2	1 3/16	•			
1 15/16	IM625A	3 1/8	3 1/4	1 7/8	3 1/2	1 1/4	•			
2	IM645	3 1/2	3 1/4	1 7/8	3 1/2	1 1/4	•			
2 1/16	IM665	3 1/2	3 1/4	1 7/8	3 1/2	1 7/16	•			
2 1/8	IM685	3 1/2	3 1/4	1 7/8	3 1/2	1 7/16	•			
2 3/16	IM705	3 1/2	3 1/4	1 7/8	3 1/2	1 1/2	•			
2 1/4	IM725A	3 3/4	3 1/4	2 1/8	3 3/4	1 7/16	•			
2 5/16	IM745	3 3/4	3 1/4	2	3 3/4	1 1/2	•			
2 3/8	IM765	3 7/8	3 1/4	2 1/4	4	1 1/2	•			
2 7/16	IM785	3 7/8	3 1/4	2 1/4	4	1 9/16	•			
2 1/2	IM805	3 7/8	3 1/4	2 1/4	4	1 5/8	•			
2 9/16	IM825	3 7/8	3 1/4	2 1/4	4	1 5/8		•		
2 5/8	IM845	4 1/16	3 1/4	2 1/2	4 1/4	1 11/16		•		
2 11/16	IM865	4 1/8	3 1/4	2 1/2	4 1/4	1 11/16		•		
2 3/4	IM885	4 1/4	3 1/4	2 3/8	4 1/4	1 13/16		•		
2 13/16	IM905	4 3/8	3 1/4	2 3/8	4 1/4	1 13/16		•		
2 7/8	IM925	4 3/8	3 1/4	2 3/8	4 1/4	1 13/16		•		
2 15/16	IM945	4 3/8	3 1/4	2 5/8	4 1/2	1 15/16		•		
3	IM965	4 7/16	3 1/4	2 5/8	4 1/2	1 15/16		•		
3 1/16	IM985	4 11/16	3 1/4	2 5/8	4 1/2	1 15/16		•		
3 1/8	IM1005	4 3/4	3 1/4	2 7/8	4 3/4	2		•		
3 3/16	IM1025	4 3/4	3 1/4	2 1/2	4 1/2	2		•		
3 1/4	IM1045	4 3/4	3 1/4	2 3/4	4 3/4	2 1/8		•		
3 5/16	IM1065	5	3 1/4	2 3/4	4 3/4	2 1/8		•		
3 3/8	IM1085	5	3 1/4	2 3/4	4 3/4	2 1/4		•		
3 7/16	IM1105	5	3 1/4	3	5	2 1/4		•		
3 1/2	IM1125	5 1/8	3 1/4	3	5	2 1/4		•		
3 9/16	IM1145	5 1/8	3 1/4	2 7/8	5	2 1/4			•	
3 5/8	IM1165	5 1/8	3 1/4	2 7/8	5	2 5/16			•	
3 11/16	IM1185	5 1/4	3 1/4	3 1/8	5 1/4	2 3/8			•	
3 3/4	IM1205	5 3/8	3 1/4	3 1/8	5 1/4	2 1/2			•	
3 13/16	IM1225	5 3/8	3 1/4	3 1/8	5 1/4	2 1/2			•	
3 7/8	IM1245	5 1/2	3 1/4	3 1/8	5 1/4	2 9/16			•	
3 15/16	IM1265	5 1/2	3 1/4	3 1/8	5 1/4	2 9/16			•	
4"	IM1285	5 5/8	3 1/4	3 1/4	5 1/2	2 5/8			•	
4 1/16	IM1305	5 3/4	3 1/4	3 1/4	5 1/2	2 11/16			•	
4 1/8	IM1325	5 13/16	3 1/4	3 1/4	5 1/2	2 3/4			•	
4 1/4	IM1365	6	3 1/4	3 1/2	5 3/4	2 3/4			•	
4 5/16	IM1385	6 1/4	3 1/4	3 1/2	5 3/4	2 7/8			•	
4 3/8	IM1405	6 1/4	3 1/4	3 3/8	5 3/4	2 15/16			•	
4 7/16	IM1425	6 1/4	3 1/4	3 3/8	5 3/4	3			•	
4 1/2	IM1445	6 1/4	3 1/4	3 5/8	6	3 1/8			•	
4 5/8	IM1485	6 1/2	3 1/4	3 7/8	6 1/4	3 1/8			•	
4 3/4	IM1525	6 9/16	3 1/4	3 7/8	6 1/4	3 1/8			•	
4 7/8	IM1565	6 11/16	3 1/4	3 3/4	6 1/4	3 3/16			•	
5	IM1605	6 7/8	3 1/4	3 3/4	6 1/4	3 3/16				•
5 3/8	IM1725	7 5/16	3 1/4	3 5/8	6 1/4	3 7/16				•
5 3/4	IM1845	7 11/16	3 1/4	4 1/2	7 1/4	3 11/16				•
6 1/8	IM1965	8	3 1/4	4 3/8	7 1/4	3 15/16				•
6 1/2	IM2085	8 3/8	3 1/4	5	8	4 3/16				•
6 7/8	IM2205	8 13/16	3 1/4	4 7/8	8	4 3/8				•
7 1/4	IM2325	9 3/16	3 1/4	6 1/8	9 1/4	4 5/8				•
7 5/8	IM2445	9 1/2	3 1/4	6 1/4	9 1/2	4 7/8				•
8	IM2565	10	3 1/4	6 5/8	10	5 1/8				•



WARNING



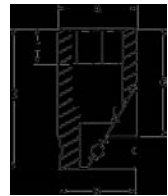
• Read safety precautions on pages W1 to W4

SOCKETS



1 1/2" Drive (Flank Drive®) Impact



SIM485



Deep, inches

		A	B	C	D	E
1 3/16	SIM445	2 7/8	3 1/4	2 5/8	4 1/4	1
1 7/16	SIM465	2 7/8	3 1/4	2 5/8	4 1/4	1
1 1/2	SIM485	2 7/8	3 1/4	2 5/8	4 1/4	1
1 5/8	SIM525	2 7/8	3 1/4	2 5/8	4 1/4	1 1/8
1 11/16	SIM545	3	3 1/4	2 5/8	4 1/4	1 1/8
2	SIM645	3 3/8	3 1/4	3 1/8	4 3/4	1 1/4
2 1/16	SIM665	3 7/16	3 1/4	3 1/8	4 3/4	1 5/16
2 3/16	SIM705	3 1/2	3 1/4	3 3/8	5	1 3/8
2 1/4	SIM725	3 9/16	3 1/4	3 5/8	5 1/4	1 1/2
2 5/16	SIM745	3 5/8	3 1/4	3 1/2	5 1/4	1 9/16
2 3/8	SIM765	3 3/4	3 1/4	3 1/2	5 1/4	1 9/16
2 7/16	SIM785	3 3/4	3 1/4	3 1/2	5 1/4	1 9/16
2 1/2	SIM805	3 7/8	3 1/4	3 1/2	5 1/4	1 5/8
2 9/16	SIM825	3 7/8	3 1/4	3 3/4	5 1/2	1 5/8
2 5/8	SIM845	4	3 1/4	3 3/4	5 1/2	1 11/16
2 11/16	SIM865	4 1/8	3 1/4	3 3/4	5 1/2	1 3/4
2 3/4	SIM885	4 1/8	3 1/4	3 5/8	5 1/2	1 13/16
2 13/16	SIM905	4 1/4	3 1/4	3 7/8	5 3/4	1 13/16
2 7/8	SIM925	4 5/16	3 1/4	3 7/8	5 3/4	1 7/8
2 15/16	SIM945	4 3/8	3 1/4	3 7/8	5 3/4	1 15/16
3	SIM965	4 7/16	3 1/4	4 1/8	6	1 15/16
3 1/16	SIM985	4 9/16	3 1/4	4 1/8	6	2
3 1/8	SIM1005	4 5/8	3 1/4	4 1/8	6	2 1/16
3 3/16	SIM1025	4 11/16	3 1/4	4 1/4	6 1/4	2 1/8
3 1/4	SIM1045	4 3/4	3 1/4	4 1/4	6 1/4	2 1/8
3 5/16	SIM1065	4 7/8	3 1/4	4 1/4	6 1/4	2 3/16
3 3/8	SIM1085	4 15/16	3 1/4	4 1/4	6 1/4	2 1/4
3 7/16	SIM1105	5	3 1/4	4 1/2	6 1/2	2 1/4
3 1/2	SIM1125	5 1/16	3 1/4	4 1/2	6 1/2	2 5/16
3 9/16	SIM1145	5 1/8	3 1/4	4 3/8	6 1/2	2 3/8
3 5/8	SIM1165	5 1/4	3 1/4	4 5/8	6 3/4	2 7/16
3 11/16	SIM1185	5 5/16	3 1/4	4 5/8	6 3/4	2 7/16
3 3/4	SIM1205	5 3/8	3 1/4	4 5/8	6 3/4	2 1/2
3 13/16	SIM1225	5 7/16	3 1/4	4 7/8	7	2 1/2
3 7/8	SIM1245	5 1/2	3 1/4	4 7/8	7	2 9/16
3 15/16	SIM1265	5 5/8	3 1/4	5 1/8	7 1/4	2 9/16
4	SIM1285	5 5/8	3 1/4	5	7 1/4	2 5/8
4 1/16	SIM1305	5 3/4	3 1/4	5 1/4	7 1/2	2 11/16
4 1/8	SIM1325	5 13/16	3 1/4	5 1/4	7 1/2	2 3/4
4 1/4	SIM1365	6	3 1/4	5 1/2	7 3/4	2 13/16
4 5/16	SIM1385	6 1/4	3 1/4	5 1/2	7 3/4	3
4 3/8	SIM1405	6 1/4	3 1/4	5 3/8	7 3/4	3
4 1/2	SIM1445	6 1/4	3 1/4	5 5/8	8	3
4 5/8	SIM1485	6 3/8	3 1/4	5 5/8	8	3 1/16
4 3/4	SIM1525	6 1/2	3 1/4	5 5/8	8	3 1/16



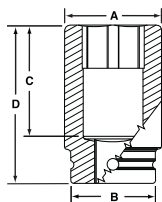
IM243R



IM243P

Locking Rings and Pins for 1 1/2" Extensions, Adaptors, Impact Sockets and 2 1/2" Impact Sockets

Stock No.	Drive Size	Description	Use with
IM243R	1 1/2"	Synthetic Rubber Locking Ring, for IM35	1" Drive Sockets/Accessories up to 1 3/8" and up to 35 mm
IM243P	1 1/2" Spline	Steel Locking Pin, for IM35	1" Drive Sockets/Accessories up to 1 3/8" and up to 35 mm
IM445R	1 1/2"	Synthetic Rubber Locking Ring, for IM105, IM205, IM59, IP85, and "IGE Series" sockets	All 1 1/2" Drive Sockets/Accessories
IM729P	2 1/2"	Steel Locking Pin, for IM95	All 2 1/2" Drive Sockets





Shallow, inches

IM2209

Set
Contains:

716IM 713IM 714IM 711IM

		A	B	C	D	716IM	713IM	714IM	711IM
2	IM649	3 7/16	5	2 31/32	5 1/2	•			
2 3/16	IM709	3 21/32	5	3 7/32	5 3/4	•			
2 1/4	IM729	3 23/32	5	3 7/32	5 3/4	•			
2 3/8	IM769	3 7/8	5	3 15/32	6	•			
2 1/2	IM809	4	5	3 15/32	6	•			
2 9/16	IM829	4 3/32	5	3 15/32	6	•			
2 5/8	IM849	4 5/32	5	3 15/32	6	•			
2 7/8	IM929	4 7/16	5	3 23/32	6 1/4	•			
2 3/4	IM889	4 5/16	5	3 23/32	6 1/4	•			
2 15/16	IM949	4 17/32	5	3 23/32	6 1/4	•			
3	IM969	4 19/32	5	3 23/32	6 1/4	•			
3 1/8	IM1009	4 3/4	5	3 31/32	6 1/2	•			
3 1/4	IM1049	5	5	3 31/32	6 1/2	•			
3 3/8	IM1089	5	5	3 31/32	6 1/2	•			
3 7/16	IM1109	5	5	4 7/32	6 3/4	•			
3 1/2	IM1129	5 3/16	5	4 7/32	6 3/4	•			
3 5/8	IM1169	5 5/16	5	4 7/32	6 3/4		•		
3 3/4	IM1209	5 15/32	5	4 15/32	7		•		
3 7/8	IM1249	5 5/8	5	4 15/32	7		•		
4	IM1289	5 3/4	5	4 15/32	7		•		
4 1/16	IM1309	5 27/32	5	4 15/32	7		•		
4 1/8	IM1329	5 29/32	5	4 23/32	7 1/4		•		
4 1/4	IM1369	6 1/16	5	4 23/32	7 1/4		•		
4 3/8	IM1409	6 7/32	5	4 23/32	7 1/4		•		
4 1/2	IM1449	6 11/32	5	4 31/32	7 1/2		•		
4 5/8	IM1489	6 1/2	5	4 31/32	7 1/2		•		
4 3/4	IM1529	6 21/32	5	4 31/32	7 1/2		•		
4 7/8	IM1569	6 25/32	5	5 7/32	7 3/4		•		
5	IM1609	6 15/16	5	5 7/32	7 3/4		•		
5 1/8	IM1649	7 3/32	5	5 7/32	7 3/4			•	
5 1/4	IM1689	7 7/32	5	5 15/32	8			•	
5 3/8	IM1729	7 3/8	5	5 15/32	8			•	
5 7/16	IM1749	7 7/16	5	5 3/8	8			•	
5 1/2	IM1769	7 17/32	5	5 5/8	8 1/4			•	
5 5/8	IM1809	7 21/32	5	5 19/32	8 1/4			•	
5 3/4	IM1849	7 13/16	5	5 19/32	8 1/4			•	
5 7/8	IM1889	7 31/32	5	5 13/16	8 1/2			•	
6	IM1929	8 3/32	5	5 3/4	8 1/2			•	
6 1/8	IM1969	8 1/4	5	5 3/4	8 1/2			•	
6 1/4	IM20099	8 13/32	5	5 31/32	8 3/4			•	
6 3/8	IM2049	8 17/32	5	5 15/16	8 3/4			•	
6 1/2	IM2089	8 11/16	5	5 15/16	8 3/4			•	
6 5/8	IM2129	8 27/32	5	6 5/32	9			•	
6 3/4	IM2169	8 31/32	5	6 1/8	9				•
6 7/8	IM2209	9 1/8	5	6 1/8	9				•
7	IM2249	9 9/32	5	6 5/16	9 1/4				•
7 1/8	IM2289	9 13/32	5	6 5/16	9 1/4				•
7 1/4	IM2329	9 9/16	5	6 17/32	9 1/2				•
7 3/8	IM2369	9 23/32	5	6 1/2	9 1/2				•
7 1/2	IM2409	9 7/8	5	6 1/2	9 1/2				•
7 5/8	IM2449	10	5	6 23/32	9 3/4				•
7 3/4	IM2489	10 5/32	5	6 11/16	9 3/4				•
7 7/8	IM2529	10 5/16	5	6 11/16	9 3/4				•
8	IM2569	10 7/16	5	6 7/8	10				•



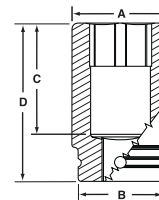
WARNING



• Read safety precautions on pages W1 to W4

SOCKETS

2 1/2 Drive (Flank Drive®) Impact



IMM1159

Shallow, mm

Set
Contains:

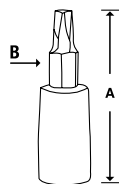
713MM

710MM

709MM

mm	6	A	B	C	D	713MM	710MM	709MM
60	IMM609	97.6	127	88.1	152.4	•		
65	IMM659	104.0	127	88.1	152.4	•		
67	IMM679	105.6	127	88.1	152.4	•		
70	IMM709	109.5	127	94.5	158.8	•		
71	IMM719	110.3	127	94.5	158.8	•		
75	IMM759	115.1	127	94.5	158.8	•		
80	IMM809	121.4	127	100.8	165.1	•		
85	IMM859	127.0	127	100.8	165.1	•		
86	IMM869	127.0	127	100.8	165.1	•		
90	IMM909	132.6	127	107.2	171.5	•		
95	IMM959	138.9	127	107.2	171.5	•		
98	IMM989	142.1	127	113.5	177.8	•		
100	IMM1009	144.5	127	113.5	177.8	•		
105	IMM1059	150.8	127	119.9	184.2		•	
110	IMM1109	156.4	127	119.9	184.2		•	
115	IMM1159	161.9	127	126.2	190.5		•	
120	IMM1209	168.3	127	126.2	190.5		•	
125	IMM1259	173.8	127	132.6	196.9		•	
130	IMM1309	179.4	127	132.6	196.9		•	
135	IMM1359	185.7	127	138.9	203.2		•	
140	IMM1409	191.3	127	142.9	209.6		•	
145	IMM1459	196.9	127	142.1	209.6		•	
150	IMM1509	203.2	127	147.6	215.9		•	
155	IMM1559	208.8	127	146.1	215.9			•
160	IMM1609	215.1	127	151.6	222.3			•
165	IMM1659	215.1	127	150.8	222.3			•
170	IMM1709	226.2	127	156.4	228.6			•
175	IMM1759	232.6	127	161.9	235.0			•
180	IMM1809	238.1	127	160.3	235.0			•
185	IMM1859	243.7	127	165.9	241.3			•
190	IMM1909	250.0	127	165.1	241.3			•
200	IMM2009	261.9	127	169.9	247.7			•

Torx® Bit Sockets



212EFTXY

GFTX45E

Torx/Standard

Set Contains:

#	Stock No.	Stock No.	Square Drive, In.	A	B		
T8	TTX8E	GTTX8E	1/4	1 9/16	TTX8E2	•	
T10	TTX10E	GTTX10E	1/4	1 9/16	TTX10E2	•	
T15	TTX15E	GTTX15E	1/4	1 9/16	TTX15E2	•	
T20	TTX20E	GTTX20E	1/4	1 9/16	TTX20E2	•	
T25	TTX25E	GTTX25E	1/4	1 9/16	TTX25E2	•	
T27	TTX27E		1/4	1 9/16	FTX27E2		
T30	TTX30E		1/4	1 9/16	FTX30E2		
T40	TTX40E		1/4	1 9/16	FTX40E2		
T27	FTX27E	GFTX27E	3/8	1 3/4	FTX27E2	•	•
T30	FTX30E	GFTX30E	3/8	1 3/4	FTX30E2	•	•
T40	FTX40E	GFTX40E	3/8	1 3/4	FTX40E2	•	•
T45	FTX45E	GFTX45E	3/8	2 1/16	FTX45E2	•	•
T47	FTX47E		3/8	2 1/16	FTX47E2	•	•
T50	FTX50E	GFTX50E	3/8	2 1/16	FTX50E2	•	•
T55	FTX55E	GFTX55E	3/8	2 1/32	FTX55E2	•	•
T60	FTX60E		3/8	2 5/16	FTX60E2		
T55	STX55E		1/2	2 9/16	FTX55E2		
T60	STX60E		1/2	3 11/32	STX60E2		
T70	STX70E		1/2	3 1/2	STX70E2		
T80	T802E		3/4	4 3/8	T802E2		
T90	T902E		3/4	4 3/8	T902E2		

Sets shown include storage tray

212EFTXY and 207EFTXY sets also include the FTX47SE GM® Style Torx Socket Driver. **STX70E** Applications: include brake rotor retaining bolts on GM C4500 Trucks (2003 and later) and torque converter drain plug on Subaru, Legacy, Impreza and Forester® (2003 and later).



FTXL40E

Torx/Long

#	Stock No.	Square Drive, In.	A	B
T8	TTXL8E	1/4	4 1/6	TTXL8E2
T10	TTXL10E	1/4	4 1/6	TTXL10E2
T15	TTXL15E	1/4	4 1/6	TTXL15E2
T20	TTXL20E	1/4	4 1/6	TTXL20E2
T25	TTXL25E	1/4	4 1/6	TTXL25E2
T27	FTXL27E	3/8	4 1/4	FTXL27E2
T30	FTXL30E	3/8	4 1/4	FTXL30E2
T40	FTXL40E	3/8	4 1/4	FTXL40E2
T45	FTXL45E	3/8	4 1/4	FTXL45E2
T50	FTXL50E	3/8	4 1/4	FTXL50E2
T45	STXL45E	1/2	4 5/8	STXL45E2
T50	STXL50E	1/2	4 5/8	STXL50E2
T55	STXL55E	1/2	4 5/8	STXL55E2
T60	STXL60E	1/2	4 5/8	STXL60E2



207EFTXYSE

Torx/Stubby

Set Contains:

#	Stock No.	Square Drive, In.	A	B	
T27	FTX27SE	3/8	1 13/32	FTX27SE2	•
T30	FTX30SE	3/8	1 13/32	FTX30SE2	•
T40	FTX40SE	3/8	1 13/32	FTX40SE2	•
T45	FTX45SE	3/8	1 13/32	FTX45SE2	•
T47	FTX47SE	3/8	1 13/32	FTX47SE2	•
T50	FTX50SE	3/8	1 13/32	FTX50SE2	•
T55	FTX55SE	3/8	1 7/16	FTX55SE2	•

Set shown includes magnetic storage tray

207EFTXYSE Applications: BMW® under dash and sensors in engine compartment. Porsche® 911 and Cayenne ignition coil bolts. Honda® airbag control module inside passenger compartment of dashboard. Cadillac® water pump and oil drain plugs. Various applications on motorcycles.



105TUTX

Torx/Stubby Universal

Set Contains:

#	Stock No.	Square Drive, In.	A	
T20	TUTX20E	1/4	1 3/4	•
T25	TUTX25E	1/4	1 3/4	•
T27	TUTX27E	1/4	1 3/4	•
T30	TUTX30E	1/4	1 3/4	•
T40	TUTX40E	1/4	1 3/4	•

Set shown includes storage tray

105TUTX Applications: T40 for Porsche 2005 and newer 911, Boxster® and Cayenne for ignition coil bolts. T30 for Volvo® turbo return lines. T30 for Honda airbag control module inside passenger compartment of dashboard. T30 for pump alignment on Mitsubishi® F4A51 transmissions (97 and later). Numerous other applications for Mercedes® that require a stubby Torx where a regular Torx bit socket will not fit in T20, T25 and T27.



209EFTXBY

Torx/ Heavy Duty Removal

Set Contains:

#	Stock No.	Square Drive, In.	A	B	
T15	TTXB15E	1/4	1 9/16	TTXB15E2	•
T20	TTXB20E	1/4	1 9/16	TTXB20E2	•
T25	TTXB25E	1/4	1 9/16	TTXB25E2	•
T27	FTXB27E	3/8	1 13/16	FTXB27E2	•
T30	FTXB30E	3/8	1 13/16	FTXB30E2	•
T40	FTXB40E	3/8	1 13/16	FTXB40E2	•
T45	FTXB45E	3/8	2 1/16	FTXB45E2	•
T50	FTXB50E	3/8	2 1/16	FTXB50E2	•
T55	STXB55E	3/8	2 1/16	FTXB55E2	•

Set shown includes magnetic storage tray



WARNING



- Do not use chrome or power sockets with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

Torx® Bit Sockets



210EFTXRY Torx/Tamper Resistant

Set Contains:

#	Stock No.	Square Drive, In.	A	B	
T8	TTXR8E	1/4	1 9/16	TTXR8E2	•
T10	TTXR10E	1/4	1 9/16	TTXR10E2	•
T15	TTXR15E	1/4	1 9/16	TTXR15E2	•
T20	TTXR20E	1/4	1 9/16	TTXR20E2	•
T25	TTXR25E	1/4	1 9/16	TTXR25E2	•
T27	FTXR27E	3/8	1 3/4	FTXR27E2	•
T30	FTXR30E	3/8	1 3/4	FTXR30E2	•
T40	FTXR40E	3/8	1 3/4	FTXR40E2	•
T45	FTXR45E	3/8	2 1/16	FTXR45E2	•
T50	FTXR50E	3/8	2 1/16	FTXR50E2	•

Set shown includes magnetic storage tray



Torx Plus®/Tamper Resistant

211EFTXRTPY

5 lobe configuration. 2 piece pinless design holds bit securely in socket while facilitating quick bit replacement. Cold formed socket delivers a strong, durable tool. Chrome plating resists corrosion and cleans easily. For sale to authorized technicians only.

Set Contains:

#	Stock No.	Square Drive, In.	A	B	
8IPR	TTXR8TPE	1/4	1 9/16	TTXR8TPE2	•
10IPR	TTXR10TPE	1/4	1 9/16	TTXR10TPE2	•
15IPR	TTXR15TPE	1/4	1 9/16	TTXR15TPE2	•
20IPR	TTXR20TPE	1/4	1 9/16	TTXR20TPE2	•
25IPR	TTXR25TPE	1/4	1 9/16	TTXR25TPE2	•
27IPR	FTXR27TPE	3/8	1 3/4	FTXR27TPE2	•
30IPR	FTXR30TPE	3/8	1 3/4	FTXR30TPE2	•
40IPR	FTXR40TPE	3/8	1 3/4	FTXR40TPE2	•
45IPR	FTXR45TPE	3/8	2 1/32	FTXR45TPE2	•
50IPR	FTXR50TPE	3/8	2 5/32	FTXR50TPE2	•
55IPR	FTXR55TPE	3/8	2 11/32	FTXR55TPE2	•

Set shown includes magnetic storage tray

211EFTXRTPY Applications: 2003 Ford Mustang transmissions, 2004 Ford F150 transfer case, 2004 Porsche Cayenne turbo air sensor, Delphi® and Stanadyne® pumps, Cummins® B and C engine injection pumps and John Deere® diesel injector pumps.



FTXL45E

Special Application Torx (3/8" Drive)

#	Stock No.	Description	Square Drive, inches	A	B
T40	FTXL40E	Extra Long	3/8	7 1/2	FTXL40E2
T47	FTX47E	GM Style	3/8	2 1/16	FTX47E2
T45	FTXL45E	Extra Long	3/8	7 11/16	FTXL45E2
T40	FTXR40TPE	Tamper Resistant	3/8	1 3/4	FTXR40TPE2
T47	GFTX500E	GM Style	3/8	2 1/16	GFTX500E2
T30	FTXL30TPE	Extra Long	3/8	5	FTXL30TPEZ

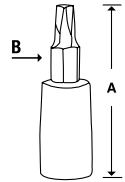
FTXL40E Applications include service on intake manifold bolts on Ford 5.0 L engines with fuel injection, model years 1985 to 1990.

FTXL45E Quickly and easily access intake bolts on Cummins N14 diesel engines without removing the air pump. Can also be used on older Cummins NH Big Cam 4 diesel engines. 3/8" square drive.

FTX47E For use on GM door strikers.

GFTX500E For use on GM door strikers and seat belt bolts.

FTXL30TPE For removing the engine harness from the firewall on 2007 and newer. For Volvo® trucks with D16, MPT 8 and MPT 10 engines, Cummins ISX fuel timing and metering actuators.



Torx Plus®

211EFTXTPY

Set Contains:

#	Stock No.	Square Drive, In.	A	B	
8IP	TTX8TPE	1/4	1 9/16	TTX8TPE2	•
10IP	TTX10TPE	1/4	1 9/16	TTX10TPE2	•
15IP	TTX15TPE	1/4	1 9/16	TTX15TPE2	•
20IP	TTX20TPE	1/4	1 9/16	TTX20TPE2	•
25IP	TTX25TPE	1/4	1 9/16	TTX25TPE2	•
27IP	FTX27TPE	3/8	1 3/4	FTX27TPE2	•
30IP	FTX30TPE	3/8	1 3/4	FTX30TPE2	•
40IP	FTX40TPE	3/8	1 3/4	FTX40TPE2	•
45IP	FTX45TPE	3/8	2 1/8	FTX45TPE2	•
50IP	FTX50TPE	3/8	2 1/8	FTX50TPE2	•
55IP	FTX55TPE	3/8	2 5/16	FTX55TPE2	•
555P	STX55TPE	1/2	2 3/4	FTX55TPE2	•

Set shown includes magnetic storage tray

Torx Plus fasteners may be found in almost all vehicles from the 1999 model year to present. Common applications include GM® transmissions bell housing bolts and Ford® seat belt anchors. T27IP size can be used to service Taurus and Sable front spring shields. Use of a standard Torx driver on Torx Plus fasteners may result in a rounded out fastener head or damaged driver.



PFTX30E

Torx/Power Drivers

#	Stock No.	Square Drive, In.	A	B
T20	PTTX20E	1/4	1 9/16	TTX20E2
T25	PTTX25E	1/4	1 9/16	TTX25E2
T27	PFTX27E	3/8	1 3/4	FTX27E2
T30	PFTX30E	3/8	1 3/4	FTX30E2
T40	PFTX40E	3/8	1 3/4	FTX40E2
T45	PSTX45E	1/2	2 7/16	FTX45E2
T50	PSTX50E	1/2	2 7/16	FT50E2
T50	PSTX500E*	1/2	2 7/16	FTX500E2
T55	PSTX55E	1/2	2 7/16	FTX55E2

*GM Style



GFTX500E

Torx® Bit Sockets (Blue-Point®)



BLPTORX1410



BLPTS1425TP



Set Contains:

BLPTORX1410

#	Stock No.	Square Drive, in.	A	
T10	BLPTS1410	1/4	3/4	•
T15	BLPTS1415	1/4	3/4	•
T20	BLPTS1420	1/4	3/4	•
T25	BLPTS1425	1/4	3/4	•
T27	BLPTS1427	1/4	3/4	•
T30	BLPTS1430	1/4	3/4	•
T40	BLPTS1440	1/4	3/4	•
T45	BLPTS1445	1/4	3/4	•
T47	BLPTS1447	1/4	3/4	•
T50	BLPTS1450	1/4	3/4	•

Set shown includes storage tray



Torx/
Tammer Resistant, Stubby

#	Stock No.	Square Drive, in.	A
T8	BLPTS148TP	1/4	3/4
T10	BLPTS1410TP	1/4	3/4
T15	BLPTS1415TP	1/4	3/4
T20	BLPTS1420TP	1/4	3/4
T25	BLPTS1425TP	1/4	3/4
T27	BLPTS1427TP	1/4	3/4
T30	BLPTS1430TP	1/4	3/4
T40	BLPTS1440TP	1/4	3/4
T45	BLPTS1445TP	1/4	3/4
T50	BLPTS1450TP	1/4	3/4



Torx/
Tammer Resistant, Long

#	Stock No.	Square Drive, in.	A
T6	BLPTL146TP	1/4	3 15/16
T7	BLPTL147TP	1/4	3 15/16
T8	BLPTL148TP	1/4	3 15/16
T9	BLPTL149TP	1/4	3 15/16
T10	BLPTL1410TP	1/4	3 15/16
T15	BLPTL1415TP	1/4	3 15/16
T20	BLPTL1420TP	1/4	3 15/16
T25	BLPTL1425TP	1/4	3 15/16
T27	BLPTL1427TP	1/4	3 15/16
T30	BLPTL1430TP	1/4	3 15/16
T40	BLPTL3840TP	3/8	4 3/8
T45	BLPTL3845TP	3/8	4 3/8
T50	BLPTL3850TP	3/8	4 3/8
T55	BLPTL1255TP	1/2	4 5/8
T60	BLPTL1260TP	1/2	4 5/8



BLPTL1425TP



Torx/
Tammer Resistant, Standard

#	Stock No.	Square Drive, in.	A
T6	BLPT146TP	1/4	1 7/16
T7	BLPT147TP	1/4	1 7/16
T8	BLPT148TP	1/4	1 7/16
T9	BLPT149TP	1/4	1 7/16
T10	BLPT1410TP	1/4	1 7/16
T15	BLPT1415TP	1/4	1 7/16
T20	BLPT1420TP	1/4	1 7/16
T25	BLPT1425TP	1/4	1 7/16
T27	BLPT1427TP	1/4	1 7/16
T30	BLPT1430TP	1/4	1 7/16
T10	BLPT3810TP	3/8	1 27/32
T15	BLPT3815TP	3/8	1 27/32
T20	BLPT3820TP	3/8	1 27/32
T25	BLPT3825TP	3/8	1 27/32
T27	BLPT3827TP	3/8	1 27/32
T30	BLPT3830TP	3/8	1 27/32
T40	BLPT3840TP	3/8	2
T45	BLPT3845TP	3/8	2
T50	BLPT3850TP	3/8	2
T55	BLPT3855TP	3/8	2
T55	BLPT1255TP	1/2	2 5/16
T60	BLPT1260TP	1/2	2 5/16



BLPT3820TP



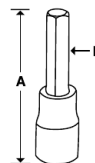
WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

Metric Hex Bit



211EFAMY



210EFTAMY



LAWM19E

Hex/Standard, mm

Set Contains:

mm	Hexagon	Square Drive, In.	A	B	Set Contains:				
					106ETMAMY	207EFAMY	210EFTAMY	211EFAMY	307ESAMY
2	TMAM2E	1/4	47.8	TMAM2E2A	•			•	
2.5	TMAM2.5E	1/4	47.8	TMAM2.5E2	•			•	
3	TMAM3E	1/4	47.8	TMAM3E2	•			•	
4	TMAM4E	1/4	47.8	FAM4E2	•				
5	TMAM5E	1/4	47.8	FAM5E2	•				
6	TMAM6E	1/4	47.8	FAM6E2	•				
4	FAM4E	3/8	52.3	FAM4E2		•	•	•	
5	FAM5E	3/8	52.6	FAM5E2		•	•	•	
6	FAM6E	3/8	52.6	FAM6E2		•	•	•	
7	FAM7E	3/8	52.6	FAM7E2		•	•	•	
8	FAM8E	3/8	52.6	FAM8E2		•	•	•	
9	FAM9E	3/8	52.6	FAM9E2		•	•	•	
10	FAM10E	3/8	52.6	SAM10E2		•	•	•	
11	FAM11E	3/8	69.9	FAM11E2			•	•	
12	FAM12E	3/8	69.9	FAM12E2				•	
13	FAM13E	3/8	69.9	FAM13E2					•
14	FAM14E	3/8	69.9	FAM14E2					•
6	SAM6E	1/2	60.5	FAM6E2					•
8	SAM8E	1/2	62	FAM8E2					•
10	SAM10E	1/2	62.8	SAM10E2					•
12	SAM12E	1/2	81	SAM12E2					•
14	SAM14E	1/2	81	SAM14E2					•
17	SAM17E	1/2	93.7	SAM17E2					•
19	SAM19E	1/2	103.1	SAM19E2					•
17	LAWM17E	3/4	4 1/8"	SAM17E2					•
19	LAWM19E	3/4	4 3/32"	SAM19E2					•



208EFTAMXSY

Set Contains:

Hex/Stubby, mm

mm	Hexagon	Square Drive, In.	A	B	Hexagon
3	TMAMXS3E	1/4	26.0	TMAMXS3E2	•
4	TMAMXS4E	1/4	27.0	TMAMXS4E2	•
5	TMAMXS5E	1/4	27.0	TMAMXS5E2	•
6	TMAMXS6E	1/4	29.0	TMAMXS6E2	•
7	FAMXS7E	3/8	34.7	FAMXS7E2	•
8	FAMXS8E	3/8	35.7	FAMXS8E2	•
9	FAMXS9E	3/8	36.7	FAMXS9E2	•
10	FAMXS10E	3/8	37.7	FAMXS10E2	•

Set includes magnetic storage tray



Hex/Long, mm

206EFAML

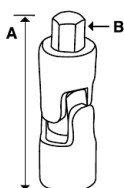
Set Contains:

mm	Hexagon	Square Drive, In.	A	B	Hexagon
4	FAML4E	3/8	153.9	FAML4E2	•
5	FAML5E	3/8	153.9	FAML5E2	•
6	FAML6E	3/8	153.9	FAML6E2	•
7	FAML7E	3/8	153.9	FAML7E2	•
8	FAML8E	3/8	153.9	FAML8E2	•
10	FAML10E	3/8	153.4	FAML10E2	•
10	SAM10LE	1/2	152.4	SAM10LE2	
12	SAM12LE	1/2	98.0	SAM12LE2	

SAM12LE Applications: Essential for removal or installation of bolt found on the lower forks of 2006 and newer Harley-Davidson® Dyna series. Used when servicing the internal parts of the fork.



208EFTABMY



TUAM6E

Sets include magnetic storage tray

Hex/Universal Stubby, mm

mm	Hexagon	Square Drive, In.	A
5	TUAM5E	1/4	38.1
6	TUAM6E	1/4	38.1

Ball Hex/Standard, mm

Set Contains:

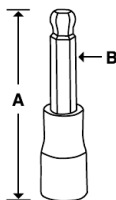
mm	Ball Hexagon	Square Drive, In.	A	B	Ball Hexagon
3	TMABM3E	1/4	47.7	TMABM3E2	•
4	TMABM4E	1/4	47.6	TMABM4E2	•
5	TMABM5E	1/4	47.9	TMABM5E2	•
6	TMABM6E	1/4	47.9	TMABM6E2	•
7	FABM7E	3/8	52.5	FABM7E2	•
8	FABM8E	3/8	52.5	FABM8E2	•
9	FABM9E	3/8	52.5	FABM9E2	•
10	FABM10E	3/8	52.5	FABM10E2	•

Set includes magnetic storage tray

Metric Hex Bit



206EFABLM



Ball Hex/Long, mm

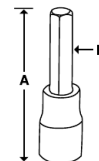
Set Contains: 206EFABLM

mm	Part No.	Square Drive, In.	A	B	End View
4	FABLM4E	3/8	129.3	FABLM4E2	•
5	FABLM5E	3/8	128.5	FABLM5E2	•
6	FABLM6E	3/8	128.5	FABLM6E2	•
7	FABLM7E	3/8	128.5	FABLM7E2	•
8	FABLM8E	3/8	127.3	FABLM8E2	•
10	FABLM10E	3/8	128.3	FABLM10E2	•

Set shown includes storage tray



FADM8E



Double Hex socket drivers and Triple Square socket drivers cannot be interchanged between applications. Triple square socket drivers have 90 corners. Double hex socket drivers have 120 corners. Using a Triple Square tool in a Double Hex application will strip the bolt head. In general, Triple Square tools are used on European vehicles and Double Hex tools are used on Asian vehicles.

Double Hex, mm

mm	Part No.	Square Drive, In.	A	B
8	FADM8E	3/8	51.3	FADM8E2
8	FADM8LE	3/8	121.9	FADM8LE2
10	SADM10E	1/2	100	SADM10E2

FADM8E / FADM8LE Applications: Removal/installation of head bolts on Toyota® Tercel 1995 and later, and Paseo (1992 to 1997).
SADM10E Applications: Removal/installation of head bolts on Toyota Highlander, 4Runner, Camry, Matrix, Corolla and Lexus® IS300, GS300, SC300 vehicles.

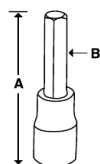
Hex, mm (Power)

mm	Part No.	Square Drive, In.	A	B
4	PFAM4E	3/8	52.3	FAM4E2
5	PFAM5E	3/8	52.6	FAM5E2
6	PFAM6E	3/8	52.6	FAM6E2
7	PFAM7E	3/8	52.5	FAM7E2
8	PFAM8E	3/8	52.1	FAM8E2
9	PFAM9E	3/8	52.5	FAM9E2
10	PFAM10E	3/8	52.5	SAM10E2



PFAM6E

Metric Hex Bit (Blue-Point®)



BLPH3810



BLPHEXS1418

Hex, mm

mm	Part No.	Square Drive, In.	Length, mm
2.5	BLPH1425	1/4	34.9
6	BLPH386	3/8	47
7	BLPH387	3/8	47
8	BLPH388	3/8	50.5
9	BLPH389	3/8	50.5
10	BLPH3810	3/8	50.5
3	BLPH123	1/2	60.3
4	BLPH124	1/2	60.3
5	BLPH125	1/2	60.3
6	BLPH126	1/2	60.3
10	BLPH1210	1/2	60.3
12	BLPHM1212	1/2	60.3
14	BLPH1214	1/2	60.3
17	BLPH1217	1/2	60.3
19	BLPH1219	1/2	60.3

Hex/Stubby, mm

mm	Part No.	Square Drive, In.	Length, mm
2	BLPHSM142	1/4	19.1
2.5	BLPHSM1425	1/4	19.1
3	BLPHSM143	1/4	19.1
4	BLPHSM144	1/4	19.1
5	BLPHSM145	1/4	19.1
6	BLPHSM146	1/4	19.1
7	BLPHSM147	1/4	19.1
8	BLPHSM148	1/4	19.1
9	BLPHSM149	1/4	19.1
10	BLPHSM1410	1/4	19.1

BLPHEXS1418 Hex Driver Set. Includes all BLPHSM metric bit sockets listed above plus all BLPHS fractional bit sockets.



WARNING



- Do not use chrome or industrial finish tools with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

Hex Bit



212EFTAY



208EGFAY



IMA283

Hex/Standard, inches

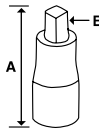
Hex Bit	Hex Bit	Hex Bit	Square Drive, In.	A	B	Length with Opt. Long Bit	Optional Long Bit	Set Contains:				
								110ETMAY	208EFAY	208EGFAY	212EFTAY	307ESAY
1/16	TMA2E		1/4	1 7/8	TMA2E2A	6	TMAL2E2	•				•
5/64	TMA2.5E	GTMA2.5E	1/4	1 7/8	TMA2.5E2	6	TMAL2.5E2	•				•
3/32	TMA3E	GTMA3E	1/4	1 7/8	TMA3E2	6	TMAL3E2	•				•
7/64	TMA3.5E		1/4	1 7/8	TMA3.5E2	6	TMAL3.5E2	•				•
1/8	TMA4E	GTMA4E	1/4	1 7/8	TMA4E2	6	TMAL4E2	•				•
9/64	TMA4.5E		1/4	1 7/8	TMA4.5E2	6	TMAL4.5E2	•				•
5/32	TMA5E	GTMA5E	1/4	1 7/8	FA5E2			•				•
3/16	TMA6E	GTMA6E	1/4	1 15/16	FA6E2			•				•
7/32	TMA7E	GTMA7E	1/4	1 7/8	FA7E2			•				•
1/4	TMA8E	GTMA8E	1/4	1 7/8	FA8E2			•				•
Hex Bit	Hex Bit	Hex Bit	Square Drive, In.	A	B	Fits These Cap Screws	Fits These Set Screws	Hex Bit	Hex Bit	Hex Bit	Hex Bit	Hex Bit
1/8	FA4E	GFA4E	3/8	2 1/16	TMA4E2		1/4		•	•		•
9/64	FA4.5E	GFA4.5E	3/8	2 1/16	TMA4.5E2	#8			•	•		•
5/32	FA5E	GFA5E	3/8	2 1/16	FA5E2	#10	5/16		•	•		•
3/16	FA6E	GFA6E	3/8	2 1/16	FA6E2	1/4	3/8		•	•		•
7/32	FA7E	GFA7E	3/8	2 1/16	FA7E2		7/16		•	•		•
1/4	FA8E	GFA8E	3/8	2 1/16	FA8E2	5/16	1/2		•	•		•
5/16	FA10E	GFA10E	3/8	2 1/16	FA10E2	3/8	5/8		•	•		•
3/8	FA12E	GFA12E	3/8	2 3/32	FA12E2	7/16, 1/2	3/4		•	•		•
5/16	SA10E	GSA10E	1/2	2 3/8	FA10E2							•
3/8	SA12E	GSA12E	1/2	2 1/2	SA12E2							•
7/16	SA14E	GSA14E	1/2	2 7/8	SA14E2							•
1/2	SA16E	GSA16E	1/2	3 1/16	SA16E2							•
9/16	SA18E	GSA18E	1/2	3 3/16	SA18E2							•
5/8	SA20E	GSA20E	1/2	3 11/32	LAW120E2							•
3/4	SA24E	GSA24E	1/2	4 1/16	LAW124E2							•
5/8	LAW120E		3/4	3 3/4	LAW120E2							•
3/4	LAW124E		3/4	4 3/8	LAW124E2							•
7/8	IMA283		1	5 5/8	IMA283-2							•
1	IMA323		1	5 5/8	IMA323-2							•

NOTE: Optional long bits are not included in the listed sets.

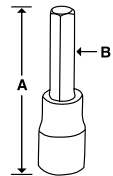
Sets shown include storage tray



208EFTAXSY



206EFAL



Hex/Stubby, inches

Hex Bit	Hex Bit	Square Drive, In.	A	B	Fits These Cap Screws	Fits These Set Screws	Set Contains:
							208EFTAXSY
1/8	TMAXS4E	1/4	1 1/32	TMAXS4E2			•
9/64	TMAXS4.5E	1/4	1 1/16	TMAXS4.5E2			•
5/32	TMAXS5E	1/4	1 1/16	TMAXS5E2			•
3/16	TMAXS6E	1/4	1 3/32	TMAXS6E2			•
7/32	FAXS7E	3/8	1 5/16	FAXS7E2			•
1/4	FAXS8E	3/8	1 11/32	FAXS8E2	5/16"	1/2"	•
5/16	FAXS10E	3/8	1 13/32	FAXS10E2	3/8"	5/8"	•
3/8	FAXS12E	3/8	1 15/32	FAXS12E2	1/2"	3/4"	•

Set shown includes magnetic storage tray

Hex/Extra Long, inches

Hex Bit	Hex Bit	Square Drive, In.	A	Fits These Cap Screws	Fits These Set Screws	B	Set Contains:
							206EFAL
5/32	FA5LE	3/8	6 1/16	#10	5/16"	FA5LE2	•
3/16	FA6LE	3/8	6 1/8	1/4"	3/8"	FA6LE2	•
7/32	FA7LE	3/8	6 1/8		7/16"	FA7LE2	•
1/4	FA8LE	3/8	6 1/8	5/16"	1/2"	FA8LE2	•
5/16	FA10LE	3/8	6 1/16	3/8"	5/8"	FA10LE2	•
3/8	FA12LE	3/8	6 1/16	1/4"	3/4"	FA12LE2	•

Set shown includes storage tray



208EFTABY

Ball Hex/Standard, inches

Set Contains:

Size	Part No.	Square Drive, in.	A	B	Tip
1/8	TMAB4E	1/4	1 7/8	TMAB4E2	•
9/64	TMAB4.5E	1/4	1 7/8	TMAB4.5E2	•
5/32	TMAB5E	1/4	1 7/8	TMAB5E2	•
3/16	TMAB6E	1/4	1 7/8	TMAB6E2	•
7/32	FAB7E	3/8	2 3/32	FAB7E2	•
1/4	FAB8E	3/8	2 3/32	FAB8E2	•
5/16	FAB10E	3/8	2 3/32	FAB10E2	•
3/8	FAB12E	3/8	2 3/32	FAB12E2	•

Sets shown include magnetic storage tray



PFA8E

Hex, inches (Power)

Size	Part No.	Square Drive, in.	A	Fits These Cap Screws	Fits These Set Screws	B
1/8	PFA4E	3/8	2 1/16		1/4"	TMA4E2
9/64	PFA4.5E	3/8	2 1/16	#8		TMA4.5E2
5/32	PFA5E	3/8	2 1/16	#10	5/16"	FA5E2
3/16	PFA6E	3/8	2 1/16	1/4"	3/8"	FA6E2
7/32	PFA7E	3/8	2 1/16		5/16"	FA7E2
1/4	PFA8E	3/8	2 1/16	7/16"	1/2"	FA8E2
5/16	PFA10E	3/8	2 1/16	3/8"	5/8"	FA10E2
3/8	PFA12E	3/8	2 1/16	1/4", 1/2"	3/4"	FA12E2



206EFABL

Ball Hex/Long, inches

Set Contains:

Size	Part No.	Square Drive, in.	A	B	Tip
5/32	FABL5E	3/8	5 1/16	FABL5E2	•
3/16	FABL6E	3/8	5 1/16	FABL6E2	•
7/32	FABL7E	3/8	5 1/16	FABL7E2	•
1/4	FABL8E	3/8	5 1/16	FABL8E2	•
5/16	FABL10E	3/8	5 1/16	FABL10E2	•
3/8	FABL12E	3/8	5 1/16	FABL12E2	•

Sets shown include storage tray

Hex, inches

Size	Part No.	Square Drive, in.	A	B
5/16	PSA10E	1/2	2 7/16	FA10E2
3/8	PSA12E	1/2	2 9/16	SA12E2
7/16	PSA14E	1/2	2 7/8	SA14E2
1/2	PSA16E	1/2	3 1/16	SA16E2
9/16	PSA18E	1/2	3 1/8	SA18E2
5/8	PSA20E	1/2	3 7/16	LAW120E2
3/4	PSA24E	1/2	4 1/16	LAW124E2



PSA10E

Hex Bit (Blue-Point®)



BLPH1414

Hex Standard, inches

Size	Part No.	Square Drive, in.	A
1/8	BLPH1418	1/4	1 7/16
9/64	BLPH14964	1/4	1 7/16
5/32	BLPH14532	1/4	1 7/16
3/16	BLPH14316	1/4	1 7/16
7/32	BLPH14732	1/4	1 7/16
1/4	BLPH1414	1/4	1 7/16
5/16	BLPH14516	1/4	1 7/16
7/32	BLPH38732	3/8	1 15/16
1/4	BLPH3814	3/8	1 15/16
5/16	BLPH38516	3/8	1 15/16
3/8	BLPH3838	3/8	1 15/16
7/16	BLPH12716	1/2	2 7/16
1/2	BLPH1212	1/2	2 7/16
9/16	BLPH12916	1/2	2 7/16
5/8	BLPH1258	1/2	2 7/16
3/4	BLPH1234	1/2	2 7/16



BLPHEXS1418

Hex/Stubby, inches

Size	Part No.	Square Drive, in.	A
5/64	BLPHS14564	1/4	3/4
3/32	BLPHS14332	1/4	3/4
7/64	BLPHS14764	1/4	3/4
5/32	BLPHS14532	1/4	3/4
3/16	BLPHS14316	1/4	3/4
7/32	BLPHS14732	1/4	3/4
1/4	BLPHS1414	1/4	3/4
5/16	BLPHS14516	1/4	3/4
3/8	BLPHS1438	1/4	3/4

BLPHEXS1418 Hex Driver Set.

Includes all BLPHS bit sockets listed above plus all BLPHSM metric bit sockets in storage tray.



WARNING

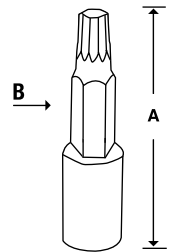


- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

Triple Square Drivers

Double Hex socket drivers and Triple Square socket drivers cannot be interchanged between applications. Triple square socket drivers have 90 corners. Double hex socket drivers have 120 corners. Using a Triple Square tool in a Double Hex application will strip the bolt head. In general, Triple Square tools are used on European vehicles and Double Hex tools are used on Asian vehicles.



TSSKIT

Triple Square, mm

	mm	Stock No.	Square Drive, In.	Set Contains:		TSSKIT
				A	B	
Standard Length	4	FTSM4E	3/8	48.5	FTSM4E2	
	5	FTSM5E	3/8	48.5	FTSM5E2	
	6	FTSM6E	3/8	48.5	FTSM6E2	•
	8	FTSM8E	3/8	58	FTSM8E2	•
Long	10	FTSM10E	3/8	67.8	FTSM10E2	•
	8	FTSM8LE	3/8	84.6	FTSM8LE2	
	10	FTSM10LE	3/8	101.6	FTSM10LE2	
	10	STSM10E	1/2	88.9	STSM10E2	
	12	STSM12E	1/2	109.5	STSM12E2	•
	12	STSM12LE	1/2	147.6	STSM12LE2	
	14	STSM14E	1/2	108.0	STSM14E2	•
	16	STSM16E*	1/2	108.0	STSM16E2	•
18	STSM18E	1/2	108.0	STSM18E2		

*Tamper Resistant

Set shown includes storage tray

Applications:

FTSM6E (6 mm, 3/8" drive) Various applications on European vehicles.

FTSM8E (8 mm, 3/8" drive) Remove and install head and accessory bolts on Mercedes®, and remove and install axle shaft bolts on VW® and Audi® vehicles.

FTSM10E (10 mm, 3/8" drive) Used for cylinder head bolts and drive shaft bolts on Mercedes, and remove and install axle shaft bolts on VW and Audi vehicles.

STSM12E (12 mm, 1/2" drive) Remove and install cylinder head bolts on Mercedes, rear toe adjustment on 1999 and newer Audi A6, and axle shaft bolts on new VW vehicles.

STSM14E Metric Triple Square Driver. Applications include 2003 and later VW Touareg front axle bolts, 2003 and later Porsche® Cayenne front axle bolts, various Audi / VW axle bolts plus Audi TT differential mount bolts and transmission drain plugs.

STSM16E Metric Triple Square Driver. Applications include Audi TT Clutch and Belly Pan, various VW / Audi transmission drain plugs (tamper resistant), 2003 and later VW Touareg front and rear brake caliper bolts, 2003 and later Porsche Cayenne brake caliper bolts, plus Detroit Diesel® flywheel bolts and front crank pulley on 900 and 4000 engines and head bolts on 900 engines.

STSM18E Metric Triple Square Driver. Applications include removing and installing rear axle bolts of 2006 VW Jetta and Golf.



305STSMSE

Triple Square/Stubby, mm (1/2" drive)

mm	Stock No.	A	B	Set Contains:	
10	STSM10SE	59.4	STSM10SE2		•
12	STSM12SE	59.4	STSM12SE2		•
14	STSM14SE	63.2	STSM14SE2		•
16	STSM16SE	68.1	STSM16SE2		•
18	STSM18SE	69.8	STSM18SE2		•

Set shown includes storage tray

STSM10SE Used for cylinder head bolts, driveshaft bolts and various other applications on VW, Audi and Mercedes vehicles.

STSM12SE Access exhaust manifold bolts on DD15 and Mercedes 900/4000 engines. Also for the back of the turbo and some oil pans. Head bolts and axle shaft bolts on VW, Audi and Mercedes vehicles.

STSM14SE Brake caliper bolts on Volkswagen®, Jetta, Rabbit, Passat, EOS and Tiquan. There is limited room due to the control arm in the way when backing out the fastener.

STSM16SE VW and Audi transmission and differential plug. Porsche Cayenne brake caliper bolts.

STSM18SE Rear axle bolts on Volkswagen Jetta and Golf.



BLPXZNM389

Triple Square Bit (Blue-Point®)



BLPXZN146

Triple Square, mm

Set Contains: BLPXZNM389

mm	Stock No.	Square Drive, in.	
4	BLPXZNM384	3/8	•
5	BLPXZNM385	3/8	•
6	BLPXZNM386	3/8	•
8	BLPXZNM388	3/8	•
10	BLPXZNM3810	3/8	•
12	BLPXZNM3812	3/8	•
14	BLPXZNM3814	3/8	•
16	BLPXZNM3816	3/8	•
18	BLPXZNM3818	3/8	•

Set shown includes storage tray

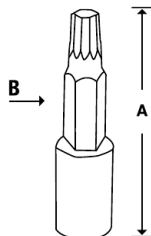
Triple Square/Stubby, mm

mm	Stock No.	Square Drive, in.	A mm
4	BLPXZN144	1/4	27
5	BLPXZN145	1/4	27
6	BLPXZN146	1/4	27
8	BLPXZN148	1/4	27
10	BLPXZN1410	1/4	27
12	BLPXZN1412	1/4	27

Special Application



PFMTS4E



SPDL10E

Mortorq®/Super Bit

#	Stock No.	Square Drive, in.	A	B
MTS-0	PFMTS0E	3/8		PFMTS0E2
MTS-1	PFMTS1E	3/8	1 3/4	PFMTS1E2
MTS-3	PFMTS3E	3/8	2 1/8	PFMTS3E2
MTS-4	PFMTS4E	3/8	2 1/8	PFMTS4E2

PFMTS1E Socket Driver. Applications: For seat tracks on 2009 Mazda® 6. Other seat applications: Cadillac® CTS, Nissan® Maxima and Altima.

PFMTS4E Socket Driver. Applications: Remove/install the bolts that secure the bell housing to the transmission on GM® 4L60 transmissions.

Polydrive Head Bolt, mm

mm	Stock No.	Description	A	B
10	SPDL10E	#10 Polydrive Head Bolt Socket Driver	159	SPDL10E2

SPDL10E Socket Driver. Use to remove and install #10 Polydrive cylinder head bolts on 1998 and later VW®/Audi® vehicles with 5 valve motors. 1/2" Drive.

Flat Tip Bit

Flat Tip, inches

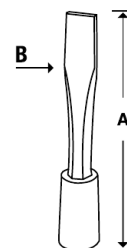
	TI	Stock No.	Industrial Stock No.	Square Drive, in.	A	B
Standard Length	3/16 x .032	TMC104E		1/4	2 7/8	TMC104E2A
	1/4 x .032	TMC105E		1/4	2 15/16	TMC105E2A
	3/8 x .042	TMC106E		1/4	2 7/8	TMC106E2A
	1/4 x 1/32	F23E		3/8	3	F23E2A
	5/16 x 3/64	F25E	GF25E	3/8	3	F25E2A
	3/8 x 1/16	F31E	GF31E	3/8	3 7/16	F31E2A
	7/16 x .050	SW28E		1/2	3 1/16	SW28E2A
	1/2 x .075	SW32E		1/2	3 1/16	SW32E2A
Short	5/8 x .093	SW40E		1/2	3 1/4	SW40E2A
	1/4 x .036	TM82		1/4	7/8	TM82-2C
	1/4 x 1/32	F42E		3/8	1 13/16	F42E2
	5/16 x 1/16	F52E		3/8	1 13/16	F52E2
	3/8 x 1/16	F62E	GF62E	3/8	1 27/32	F62E2



TM82



F23E



GF31E



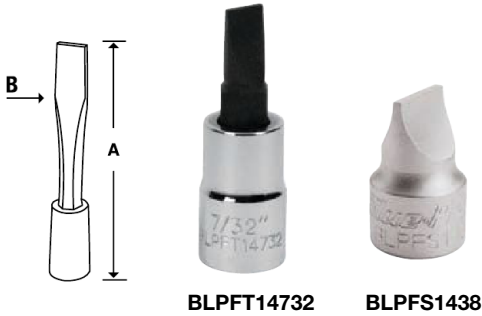
WARNING



- Do not use chrome or industrial finish hand sockets with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

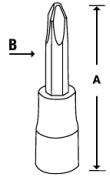
Flat Tip Bits



Flat Tip (Blue-Point®), inches

		Stock No.	Square Drive, In.	A
Standard Length	5/32	BLPFT14532	1/4	1 7/16
	7/32	BLPFT14732	1/4	1 7/16
	9/32	BLPFT14932	1/4	1 7/16
Short	1/4	BLPFS1414	1/4	3/4
	3/8	BLPFS1438	1/4	3/4

Phillips® Bits



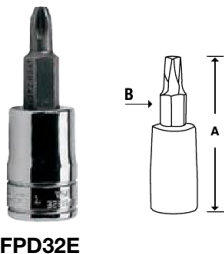
Phillips/Standard

		Stock No.	Industrial Stock No.	Square Drive, In.	A	B
Standard Length	#1	TMP12E	GTMP12E	1/4	1 7/8	TMP12E2
	#2	TMP22E		1/4	1 7/8	FP22E2
	#2	FP22E	GFP22E	3/8	2 1/16	FP22E2
	#3	FP32E		3/8	2 5/16	FP32E2
	#4	FP41E		3/8	1 21/32	FP41E2
	#3	SP32E		1/2	2 3/16	SP32E2
	#4	SP42E		1/2	2 5/16	SP42E2
Short	#2	TMP21E		1/4	1 1/4	TMP21E2
	#2	TMP82		1/4	15/16	TMP82-2B
	#3	FPS32E		3/8	1 29/32	SP32E2
Long	#2	TMP23E		1/4	3 1/16	TMP23E2
	#2	FP24E		3/8	4 1/32	FP24E2
	#3	FP34E		3/8	4 1/32	FP34E2
	#4	FP42E		3/8	2 9/16	FP42E2

Phillips (Blue-Point)

		Stock No.	Square Drive, In.	A
Standard Length	#0	BLPP140	1/4	1 7/16
	#1	BLPP141	1/4	1 7/16
	#2	BLPP142	1/4	1 7/16
	#3	BLPP383	3/8	1 27/32
	#4	BLPP384	3/8	1 27/32
Stubby	#1	BLPPS141	1/4	3/4
	#2	BLPPS142	1/4	3/4

Pozidriv® and Clutch® Drivers



Pozidriv

#	Stock No.	Square Drive, In.	A	B
#2	FPD22E	3/8	2 1/16	FPD22E2
#3	FPD32E	3/8	2	FPD32E2

Pozidriv, (Blue-Point)

Size	Stock No.	Square Drive, In.	A
#3	BLPPD383	3/8	1 27/32
#4	BLPPD384	3/8	1 27/32

Clutch. Standard Length

	Stock No.	Square Drive, In.	A	B
3/16	TM27E	1/4	3/16	1 3/8
1/4	TM30E	1/4	1/4	1 3/8
5/32	TM31E	1/4	5/32	1 3/8
3/8	F29E	3/8	3/8	1 3/4
5/16	F30E	3/8	19/64	1 3/4

3/8" Drive Impact Sets

208EPIT Set. 8 pcs Includes:

Stock No.	Description
PIT120	Impact Driver
F42E	1/4" Flat Tip Driver
F52E	5/16" Flat Tip Driver
F62E	3/8" Flat Tip Driver
FP22E	#2 Phillips Driver
FP32E	#3 Phillips Driver
FP42E	#4 Phillips Driver
FPD22E	#2 Pozidriv Driver
PB108A	Storage Case

PIT120 Impact Driver.

Delivers cam action impact when struck with a hammer for loosening or tightening fasteners. Industrial finish.

PIT2230E Impact Driver Set.

Includes PIT120 impact driver plus all sockets, screwdrivers and replacement bits (36 pcs) conveniently displayed in a storage tray that fits in the KRA142 metal box.

PIT2230E Set. 36 pcs Includes:

Stock No.	Description
PIT120	Impact Driver
FA6E	3/16" Hex Driver w/extra FA6E2 Bit
FA7E	7/32" Hex Driver w/extra FA7E2 Bit
FA8E	1/4" Hex Driver w/extra FA8E2 Bit
FA10E	5/16" Hex Driver w/extra FA10E2 Bit
FA12E	3/8" Hex Driver w/extra FA12E2 Bit
F42E	1/4" Flat Tip Driver w/extra F42E2 Bit
F52E	5/16" Flat Tip Driver w/extra F52E2 Bit
F62E	3/8" Flat Tip Driver w/extra F62E2 Bit
FP22E	#2 Phillips Driver w/extra FP22E2 Bit
FP32E	#3 Phillips Driver w/extra FP32E2 Bit
FP41E	#4 Phillips Driver w/extra FP41E2 Bit
FP42E	#4 Phillips Driver w/extra FP42E2 Bit
F29E	3/8" Clutch Driver
F30E	5/16" Clutch Driver
FPD22E	#2 Pozidriv Driver
IMF120A	3/8" 6-point Impact Socket
IMF140A	7/16" 6-point Impact Socket
IMF160	1/2" 6-point Impact Socket
IMF180	9/16" 6-point Impact Socket
IMF200	5/8" 6-point Impact Socket
IMF220	11/16" 6-point Impact Socket
IMF240	3/4" 6-point Impact Socket
GF22	11/16" Drag Link Socket
KRA142	Metal Box

1/2" Drive Impact Sets

Stock No.	Description
PIT160	Impact Driver
A26A	Drag Link Socket
SA10E	5/16" Hex Head Driver
SA12E	3/8" Hex Head Driver
SA14E	7/16" Hex Head Driver
SA16E	1/2" Hex Head Driver
SA18E	9/16" Hex Head Driver
SA20E	5/8" Hex head Driver
SP32E	#3 Phillips Driver
SP42E	#4 Phillips Driver
SW28E	7/16" x .050" Socket Driver
SW32E	1/2" x .075" Socket Driver
KRA142	Metal Box

Includes:

PIT160 This 1/2" drive unit delivers cam action impact when struck with a hammer.

PIT3120EB Impact Driver Set. PIT160 impact driver plus sockets and socket drivers (12 pcs) in KRA142 metal box.



208EPIT



PIT2230E



PIT160



PIT3120EB



WARNING



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

Combination Bit Sets (Blue-Point®)



BLPBSS40



BLPTSSC43

1/4" Drive Stubby Bit Socket Set (40 pcs)

	Stock No.	Size	
Torx Tamper Resistant	BLPTS148TP	TP8	
	BLPTS1410TP	TP10	
	BLPTS1415TP	TP15	
	BLPTS1420TP	TP20	
	BLPTS1425TP	TP25	
	BLPTS1427TP	TP27	
	BLPTS1430TP	TP30	
	BLPTS1440TP	TP40	
	BLPTS1445TP	TP45	
	BLPTS1450TP	TP50	
Triple Square	BLPXZN144	XZN4	
	BLPXZN145	XZN5	
	BLPXZN146	XZN6	
	BLPXZN148	XZN8	
	BLPXZN1410	XZN10	
	BLPXZN1412	XZN12	
Flat Tip	BLPFS1414	1/4" Wide	
	BLPFS1438	3/8" Wide	
Phillips	BLPPS141	P1	
	BLPPS142	P2	
Hex, inches	BLPHS14564	5/64"	
	BLPHS14332	3/32"	
	BLPHS14764	7/64"	
	BLPHS1418	1/8"	
	BLPHS14532	5/32"	
	BLPHS14316	3/16"	
	BLPHS14732	7/32"	
	BLPHS1414	1/4"	
	BLPHS14516	5/16"	
	BLPHS1438	3/8"	
	Hex, mm	BLPHSM142	2 mm
		BLPHSM142.5	2.5 mm
		BLPHSM143	3 mm
BLPHSM144		4 mm	
BLPHSM145		5 mm	
BLPHSM146		6 mm	
BLPHSM147		7 mm	
BLPHSM148		8 mm	
BLPHSM149		9 mm	
BLPHSM1410		10 mm	
		BLPCSS400PB Storage Case	

Combination Torx®/Socket and Bit Socket Set (43 pcs)

	Stock No.	Size	Drive Size, inches
External Torx Sockets	BLPTE144	E4	1/4
	BLPTE145	E5	1/4
	BLPTE146	E6	1/4
	BLPTE147	E7	1/4
	BLPTE148	E8	1/4
	BLPTE3810	E10	3/8
	BLPTE3812	E12	3/8
	BLPTE3814	E14	3/8
	BLPTE3816	E16	3/8
	BLPTE1218	E18	1/2
	BLPTE1220	E20	1/2
	BLPTE1222	E22	1/2
	BLPTE1224	E24	1/2
	Torx Tamper Resistant Bit Sockets	BLPT146TP	T6
BLPT147TP		T7	1/4
BLPT148TP		T8	1/4
BLPT149TP		T9	1/4
BLPT1410TP		T10	1/4
BLPT1415TP		T15	1/4
BLPT1420TP		T20	1/4
BLPT1425TP		T25	1/4
BLPT1427TP		T27	1/4
BLPT1430TP		T30	1/4
BLPT3840TP		T40	3/8
BLPT3845TP		T45	3/8
BLPT3850TP		T50	3/8
BLPT1255TP		T55	1/2
BLPT1260TP	T60	1/2	
Torx Tamper Resistant Long Bit Sockets	BLPTL146TP	T6	1/4
	BLPTL147TP	T7	1/4
	BLPTL148TP	T8	1/4
	BLPTL149TP	T9	1/4
	BLPTL1410TP	T10	1/4
	BLPTL1415TP	T15	1/4
	BLPTL1420TP	T20	1/4
	BLPTL1425TP	T25	1/4
	BLPTL1427TP	T27	1/4
	BLPTL1430TP	T30	1/4
	BLPTL3840TP	T40	3/8
	BLPTL3845TP	T45	3/8
	BLPTL3850TP	T50	3/8
	BLPTL1255TP	T55	1/2
BLPTL1260TP	T60	1/2	
	BLPTSSC43PB Storage Case		

Combination Hex Drive Bit Socket Set

BLPHSSC30 Combination Socket Driver Set.

- 30 piece Combination 1/4, 3/8 and 1/2" drive Hex Bit Socket Set
- Set covers a full range of metric hex sizes from 2.5 to 19 mm and fractional from 1/8 to 3/4"
- Drive size increase with bit size to offer maximum strength
- Perfect set for the technician in the shop or for use around the house
- Comes in a durable compact case
- Supported by a full lifetime warranty, no need to replace bits

Combination Socket Driver Set (30 pcs)

	Stock No.	Size	Drive Size, inches		Stock No.	Size	Drive Size, inches
Hex, inches	BLPH1418	1/8	1/4	Hex, mm	BLPH1425	2.5	1/4
	BLPH14964	9/64	1/4		BLPH386	6	3/8
	BLPH14532	5/32	1/4		BLPH387	7	3/8
	BLPH14316	3/16	1/4		BLPH388	8	3/8
	BLPH14732	7/32	1/4		BLPH389	9	3/8
	BLPH1414	1/4	1/4		BLPH3810	10	3/8
	BLPH38732	7/32	3/8		BLPH123	3	1/2
	BLPH3814	1/4	3/8		BLPH124	4	1/2
	BLPH38516	5/16	3/8		BLPH125	5	1/2
	BLPH3838	3/8	3/8		BLPH126	6	1/2
	BLPH12716	7/16	3/8		BLPH1210	10	1/2
	BLPH1212	1/2	1/2		BLPHM1212	12	1/2
	BLPH12916	9/16	1/2		BLPH1214	14	1/2
	BLPH1258	5/8	1/2		BLPH1217	17	1/2
	BLPH1234	3/4	1/2		BLPH1219	19	1/2



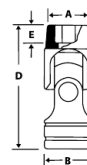
BLPHSSC30

High Performance 1/4" Drive (Flank Drive®) Sockets

Universal, inches

	12	A	B	D	E
1/4	TDHU81A	3/8	1/2	1 15/64	1/4
5/16	TDHU101A	29/64	1/2	1 23/64	9/32
3/8	TDHU121A	17/32	1/2	1 15/32	11/32

Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. (Industrial finish tools comply with performance specifications and differ only in finish.) The unique spline wrenching configuration can also be used on ordinary 6 and 12 point fasteners with an advantage similar to the Snap-on® Flank Drive wrenching system.



TDHU101A

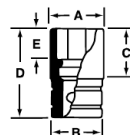
1/4" Drive Spline Sockets

Snap-on spline wrenching tools have been developed to service high tensile strength spline nuts and bolts widely used on both military and commercial aircraft. Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool.

Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. (Industrial finish tools comply with performance specifications and differ only in finish.) The unique spline wrenching configuration can also be used on ordinary 6 and 12 point fasteners with an advantage similar to the Snap-on Flank Drive wrenching system.



TES10



TESU10

Shallow, inches

	12	Stock No.	A	B	C	D	E
#7	7/32	TES7	11/32	27/64	29/64	59/64	7/32
#8	1/4	TES8	3/8	27/64	29/64	59/64	17/64
#9	9/32	TES9	7/16	3/16	37/64	59/64	19/64
#10	5/16	TES10	29/64	29/64	19/32	59/64	21/64
#12	3/8	TES12	35/64	35/64	19/32	59/64	23/64
#14	7/16	TES14	5/8	39/64	23/32	1 3/64	7/16

Shallow Universal, inches

	12	Stock No.	A	B	D	E
#8	1/4	TESU8	3/8	1/2	1 15/64	17/64
#10	5/16	TESU10	29/64	1/2	1 23/64	21/64

Deep, inches

	12	Stock No.	A	B	C	D	E
#7	7/32	TEL7	11/32	27/64	1 43/64	2	7/32
#8	1/4	TEL8	3/8	7/16	1 43/64	2	17/64
#10	5/16	TEL10	29/64	29/64	1 43/64	2	21/64

Deep, mm

	mm	Stock No.	A	B	C	D	E
#7	7	TELM7A	10.4	10.9	36.3	50.8	7.3
#8	8	TELM8A	11.7	11.7	36.3	50.8	8.8



WARNING



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

SOCKETS

3/8" Drive Spline Sockets



FES200

Shallow, inches

		Stock No.	A	B	C	D	E
#12	3/8	FES120	35/64	21/32	19/32	1 3/64	23/64
#14	7/16	FES140	5/8	11/16	5/8	1 7/64	7/16
#16	1/2	FES160	23/32	3/4	39/64	1 7/64	29/64
#18	9/16	FES180	53/64	53/64	39/64	1 7/64	15/32
#20	5/8	FES200	57/64	57/64	45/64	1 15/64	35/64



FELM10A

Deep, mm

		Stock No.	A	B	C	D	E
#10	10	FELM10A	14.5	16.8	40.4	54.0	10.0

Deep, inches



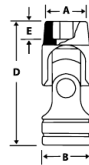
FEL200

		Stock No.	A	B	C	D	E
#12	3/8	FEL120	35/64	5/8	1 41/64	2 1/8	23/64
#14	7/16	FEL140	41/64	43/64	1 3/4	2 1/8	7/16
#16	1/2	FEL160	23/32	23/32	1 55/64	2 1/4	15/32
#18	9/16	FEL180	53/64	53/64	1 55/64	2 3/8	15/32
#20	5/8	FEL200	57/64	57/64	1 27/32	2 3/8	35/64

1/4" Drive Spline Sockets



FESU160



IMFES14

Shallow Universal, inches

		Stock No.	A	B	D	E
#12	3/8	FESU120	35/64	3/4	1 31/32	23/64
#14	7/16	FESU140	5/8	3/4	2 3/64	7/16
#16	1/2	FESU160	23/32	3/4	2 5/64	29/64
#18	9/16	FESU180	53/64	3/4	2 1/8	15/32

Impact, inches

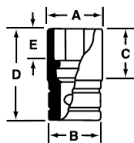
		Stock No.	A	B	C	D	E
#14	7/16	IMFES14	3/4	3/4	5/8	1 7/64	7/16

SAE Spec. MA1547A

1/2" Drive Spline Sockets



SES181



Shallow, inches

		Stock No.	A	B	C	D	E	
#16	1/2	SES161	23/32	55/64	5/8	1 19/64	29/64	•
#18	9/16	SES181	53/64	55/64	5/8	1 19/64	15/32	•
#20	5/8	SES201	57/64	57/64	55/64	1 35/64	35/64	•
#22	11/16	SES221	31/32	31/32	27/32	1 35/64	37/64	•
#24	3/4	SES241	1 3/64	31/32	53/64	1 35/64	37/64	•
#26	13/16	SES261	1 1/8	1 1/8	13/16		37/64	•
#28	7/8	SES281	1 3/16	1 1/8	51/64	1 35/64	37/64	•
#30	15/16	SES301	1 17/64	1 17/64	49/64	1 35/64	37/64	•

Set Contains: 308SES

3/4" and 1" Drive Spline Sockets



LES302

3/4" Drive Shallow, inches

		Stock No.	A	B	C	D	E
#24	3/4	LES242	1 3/64	1 3/8	1	1 51/64	41/64
#30	15/16	LES302	1 3/8	1 3/8	1 7/64	1 59/64	51/64
#34	1 1/16	LES342	1 35/64	1 19/32	1	2 3/64	57/64
#36	1 1/8	LES362	1 5/8	1 1/2	1 3/16	2 3/16	15/16



LES323

1" Drive Shallow, inches

		Stock No.	A	B	C	D	E
#32	1	LES323	1 29/64	1 55/64	1 35/64	2 7/16	53/64
#34	1 1/16	LES343	1 35/64	1 55/64	1 37/64	2 35/64	57/64
#38	1 3/16	LES383	1 23/64	1 63/64	1 25/32	2 51/64	1 1/64

Built for Performance.

Each Snap-on® extension is constructed from a high performance alloy steel blend and finished with corrosion-resistant nickel-chrome plating.

Smallest diameter shank allows access to tight spaces.

Cold-formed alloy steel frame for strength and durability.

Knurled shaft on some extensions for better control.

Wobble

Provides 16° of additional accessibility.

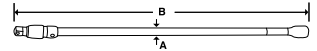
Wobble Plus

Usable in both wobble and standard functionality, Wobble Plus design provides maximum versatility and flexibility.



EXTENSIONS

1/4" Drive (Chrome/Industrial Finish)



GTMXK80



BLPTXK3

Knurled

106BTMX

Set Contains:

106BTMX

Stock No.	Industrial Stock No.	A	B	
TMX1*		5/16	1 1/4	•
TMX2**	GTMX2*	5/16	2	•
TMX4	GTMX4*	5/16	4	•
TMX60**	GTMX60*	5/16	6	•
TMX80**	GTMXK80	5/16	8	•
TMX110	GTMXK110	5/16	11	•
TMX140	GTMX140*	5/16	14	
TMX240*		3/8	24	
TMX360		3/8	36	

*Not knurled

Set shown includes storage tray

**ASME®/ANSI® B107.10

Knurled (Blue-Point®)

Stock No.	B
BLPTXK1.5	1 9/16
BLPTXK2	2 3/32
BLPTXK3	2 15/16
BLPTXK4	4
BLPTXK6	6



103TMXLBP

Locking (Blue-Point)

Set Contains:

103TMXLBP

Stock No.	B	
TMXLBP4	4	•
TMXLBP6	6	•
TMXLBP10	10	•

Set shown includes storage tray



103TMXKLA

Locking - Knurled

- Quick release sleeve releases socket quickly and easily
- Knurling at the drive end provides for easy fingertip turning

Set Contains:

103TMXKLA

Stock No.	A	B	
TMXKL60A	5/16	6	•
TMXKL110A	5/16	11	•

TMXKLP Locking Pins.

- Locking pins for TMXKLP Series Extensions Set shown includes storage tray

TMXKLRK Repair Kit.

- Repair kit for TMXKLP Series Extensions
- 5 pack



YA515A

Locking (Set Screw) (Blue-Point)

Stock No.	Finish	A	B
YA515A	Chrome	1/2	1 11/16

YA515A Set Screw Locking Extension.

- Allows easy and secure tool stacking
- Securely connects breaker bar, extensions and ratchets to socket and socket drivers for overhead work
- Sliding sleeve for easy removal
- Not for use with power or impact tools

Connectors

TZ1 Extension Connector.

- 1/4" drive extension connector adds versatility to extensions, breaker bars, ratchets and crowfoot wrenches
- Connect one or more tools for a variety of ways to reach limited access fasteners
- For use in marine, heavy truck, plumbing and manufacturing applications

TZ2 Extension Connector Set.

- Set of 2 TZ1



TZ1

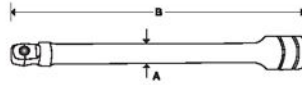
1/4" Drive (Chrome/Industrial Finish)



106ATMXW



106ATMXWP



Wobble

- Provides 16° of additional accessibility
- Knurled shanks for easy fingertip turning

Set Contains:

106ATMXW

Stock No.	A	B	
TMXW1*	5/16	1 1/4	•
TMXWK2	5/16	2	•
TMXWK4	5/16	4	•
TMXWK60	5/16	6	•
TMXWK80	5/16	8	•
TMXWK110	5/16	11	•

*Not knurled

Set shown includes storage tray

Wobble Plus

- Provides 16° of additional accessibility
- Useable in both wobble and rigid functionality

Set Contains:

106ATMXWP

Stock No.	A	B	
TMXWP1*	5/16	1 1/4	•
TMXWP2	5/16	2	•
TMXWP4	5/16	4	•
TMXWP6	5/16	6	•
TMXWP8	5/16	8	•
TMXWP11	5/16	11	•

*Not knurled

Set shown includes storage tray

Variable Length

- Reach recessed fasteners easier and quicker in limited access applications
- For use under automotive dashboards and aircraft engines
- Spring loaded extension maintains contact with fastener
- Chamfered ends for easy engagement and knurling for easy hand turning

Set Contains:

102TMXKV

Stock No.	Finish	Extended Length, inches	
TMXKV3	Chrome	3	•
TMXKV5	Chrome	5	•

Set shown includes storage tray

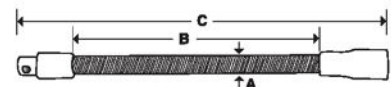


102TMXKV

Flexible

Stock No.	A	B	C
TM61A*	5/16	5	6
BLPEXTF146	5/16	3 5/8	6

*ASME®/ANSI® B107.10



TM61A



BLPEXTF146

- Do not use chrome or industrial finish hand tools with impact drivers
- Wobble extensions have about half the torque strength of extensions with conventional square drives
- Read safety precautions on pages W1 to W4

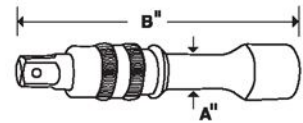


WARNING



EXTENSIONS

1/4" Drive (Impact)



TMIXL62

Impact Locking Extensions

- Quick release locking sleeve provides secure connection and easy socket removal
- Knurled release collar for easy one hand operation, even with slippery hands
- Female drive end recessed to accommodate new style impact guns
- Positive pin lock retains socket securely
- Heavy duty shank for high torque applications

Impact Locking

Set Contains: 105TMIX

Stock No.	A	B	
TMIXL32	1 ¹ / ₃₂	2 ⁷ / ₈	•
TMIXL62	1 ¹ / ₃₂	5 ⁷ / ₈	•
TMIXL122	1 ¹ / ₃₂	11 ⁷ / ₈	•
TMIXL182	1 ¹ / ₃₂	17 ³ / ₄	•
TMIXL242	1 ¹ / ₃₂	23 ³ / ₄	•

Set includes storage tray



103ITMX

Impact Extensions

Set Contains: 103ITMX

Stock No.	Finish	A	B	
ITMX20	Industrial Finish	5/16	2	•
ITMX40	Industrial Finish	5/16	4	•
ITMX60	Industrial Finish	5/16	6	•

Set shown includes storage tray

Impact Extensions

- Features snap ring anvil for excellent socket to extension engagement
- Designed for use with most 1/4" cordless electric and air operated impact tools

3/8" Drive (Chrome/Industrial Finish)



206AFX



GFXK11

Knurled

Knurling at the drive end provides for easy fingertip turning.

Set Contains:

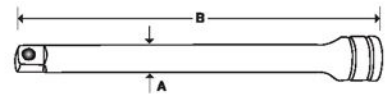
206AFX

206AFX

Stock No.	Industrial Stock No.	A	B		
FX1*	GFX1	1/2	1 1/2	•	•
FXX3	GFXK3	13/32	3	•	•
FXX4		13/32	4	•	•
FXX6	GFXK6	13/32	6	•	•
FXX8	GFXK8	13/32	8	•	•
FXX11	GFXK11	13/32	11	•	•
FX18		1/2	18	•	
FX24A		1/2	24	•	
FX36		1/2	36		

*Not Knurled

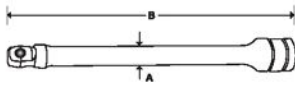
Sets include storage tray



BLPEXTK386

Knurled (Blue-Point®)

Stock No.	B
BLPEXTK383	2 ³¹ / ₃₂
BLPEXTK386	5 ²⁹ / ₃₂
BLPEXTK3810	9 ²⁹ / ₃₂



206AFXW

Wobble

- Wobble function provides 16° of additional accessibility
- Knurled shanks for easy fingertip turning

Set Contains: 206AFXW

Stock No.	A	B	
FXW1*	1/2	1 1/2	•
FXWK3	13/32	3	•
FXWK4	13/32	4	•
FXWK6	13/32	6	•
FXWK8	13/32	8	•
FXWK11	13/32	11	•

*Not Knurled

Set shown includes storage tray

3/8" Drive (Chrome/Industrial Finish)



Wobble Plus

206AFXWP

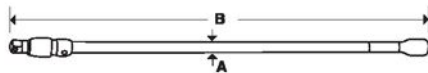
- Useable in wobble and rigid functionality
- Wobble function provides 16° additional accessibility
- Knurled shanks for easy fingertip turning

Set Contains: 206AFXWP

Stock No.	A	B	
FXWP1*	1/2	1 1/2	•
FXWP3	13/32	3	•
FXWP4	13/32	4	•
FXWP6	13/32	6	•
FXWP8	13/32	8	•
FXWP11	13/32	11	•

*Not Knurled

Set shown includes storage tray



203FXWKL

Locking Wobble Set

- Provides 16° of additional accessibility
- Quick release locking sleeve provides secure connection and easy socket removal
- Knurled release collar for easy one hand operation, even with slippery hands

Set Contains: 203FXWKL

Stock No.	A	B	
FXWKL3	1/2	3	•
FXWKL6	1/2	6	•
FXWKL11	1/2	11	•

Set shown includes storage tray



BLPEXTF388

Flexible Extensions (Blue-Point®)

Stock No.	Finish	Length, inches
BLPEXTF388	Chrome	8



FXKR6

Ratcheting Extensions/Speeders

- Allows extension to be used as a speeder to quickly snug fasteners and save time
- Ability to control torque and minimize damage to composite parts and mounts
- One hand operation with built-in forward/reverse lever
- Can be used separately or with Snap-on® 3/8" ratchets
- Machined from a single piece of alloy steel for robust performance
- Knurled shaft provides precise fingertip control

Stock No.	Finish	A	B
FXKR3	Chrome	13/32	3
FXKR6	Chrome	13/32	6

Connectors

FZ1 Connector.

- 3/8" drive extension connector adds versatility to extensions, breaker bars, ratchets and crowfoot wrenches
- Connect one or more tools for a variety of ways to reach limited access fasteners
- Use in automotive, aircraft, marine, heavy truck, plumbing and manufacturing applications



FZ1

FZ2 Connector Set.

- Set of 2 FZ1



WARNING



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

EXTENSIONS

3/8" Drive (Chrome)

Variable Length

- Reach recessed fasteners easier and quicker in limited access applications
- Applications include limited access areas around water pumps, fuel pumps and turbo mounting bolts
- Spring loaded extension maintains contact with fastener
- Chamfered drive ends for easy engagement and knurling for easy hand turning



202FXKV



202FXKLV



Variable Length (Locking)

Stock No.	Extended Length, inches	Set Contains:
FXKLV5	5	•
FXKLV7	7	•

Set shown includes storage tray

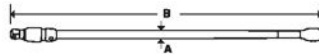
Variable Length

Stock No.	Extended Length, inches	Set Contains:
FXKV4	4	•
FXKV7	7	•

Set shown includes storage tray



203FXLBP



YA525A

Locking (Set Screw) (Blue-Point)

- Allows easy and secure tool stacking
- Securely connects breaker bar, extensions and ratchets to socket and socket driver for overhead work
- Sliding sleeve for easy removal
- Not for use with power or impact tools

Stock No.	A	B
YA525A	3/4	2 1/8

Locking (Blue-Point®)

Stock No.	B	Set Contains:
FXLBP3	3	•
FXLBP6	6	•
FXLBP10	10	•

Set shown includes storage tray



204FXKLA



BLPLEXT203

Quick Release, Locking

- Releases socket from extension quickly and easily
- Knurling at drive end provides easy fingertip turning

Stock No.	A	B	Set Contains:
FXKL3A	1/2	3	•
FXKL6A	1/2	6	•
FXKL11A	1/2	11	•
FXKL24A	1/2	24	•

Set shown includes storage tray

Extra Long Locking (Blue-Point)

- Smooth, durable chrome finish
- Made from tough 6130 steel
- Secure socket retention
- Lifetime warranty on individual extensions
- Do not use with power or impact tools

Stock No.	B	Set Contains:
BLPEXTL3812	12	•
BLPEXTL3818	18	•
BLPEXTL3824	24	•

Set shown includes storage tray

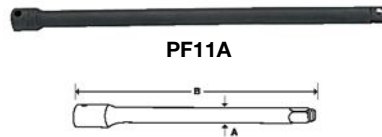
FXKLP Pins. Locking pins for FXKL Series Extensions. 5 pack.
FXKLRK Repair Kit. Repair kit for FXKL Series Extensions.

3/8" Drive (Power/Industrial Finish)

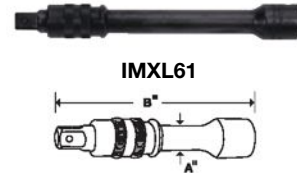
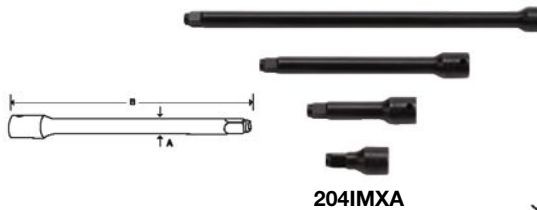
Locking Button

Use with power or impact sockets with retention holes.

Stock No.	A	B
PF3	1/2	3
PF6	1/2	6
PF11A	1/2	11



3/8" Drive (Impact)



Snap Ring Retention Device

Set Contains:

204IMXA

Stock No.	A	B	
IMX11	1/2	1 3/4	•
IMX31	1/2	3	•
IMX61	1/2	6	•
IMX111	1/2	11	•

Includes storage tray

Locking

- Quick release locking sleeve provides a secure connection plus easy socket removal
- Knurled release collar for easy one hand operation, even with slippery hands

Stock No.	A	B
IMXL31	1/2	3
IMXL61	1/2	6
IMXL111	1/2	11



Locking Adaptors

- Quick release locking sleeve at the 3/8" drive

Stock No.	A	B	C	D
IMSFXL18	3/8 (locking)	1/2	21/32	18
IMSFXL24	3/8 (locking)	1/2	21/32	24
IMSFXL33	3/8 (locking)	1/2	21/32	33

1/2" Drive (Chrome/Industrial Finish)

Extensions

Set Contains:

305ASX

Stock No.	Industrial Stock No.	A	B	
SX2		5/8	2 1/8	•
SXK3	GSXK3	5/8	3 1/2	•
SXK5	GSXK5	5/8	5	•
SXK8		5/8	8	•
SXK11	GSXK11	5/8	11	•
SX15		5/8	15	
SX20		5/8	20	
SX24		5/8	24	
SX36		5/8	36	

ASME®/ANSI® B107.10M

Set includes storage tray



- Do not use chrome or industrial finish hand tools with impact drivers
- Wobble extensions have about half the torque strength of extensions with conventional square drives
- Read safety precautions on pages W1 to W4



EXTENSIONS

1/2" Drive (Chrome/Industrial Finish)



BLPEXTK123

Extensions (Blue-Point®)

Stock No.	B
BLPEXTK123	3
BLPEXTK126	6
BLPEXTK1210	10



305ASXW

GSXWK5

Wobble

- Provides 16° of additional accessibility
- Knurled shanks for easy fingertip turning

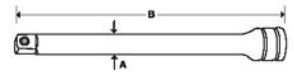
Stock No.	Industrial Stock No.	A	B	Set Contains:
SXW2*	GSXW2	5/8	2	•
SXWK3		5/8	3 1/2	•
SXWK5	GSXWK5	5/8	5	•
SXWK8		5/8	8	•
SXWK11	GSXWK11	5/8	11	•

*Not Knurled
ASME/ANSI B107.10

Set shown includes storage tray



303SXWKL



303SXLBP

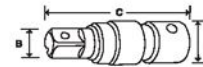
Locking/Knurled (Blue-Point)

Stock No.	B	Set Contains:
SXLBP3	3	•
SXLBP6	6	•
SXLBP10	10	•

Set shown includes storage tray



GALX3



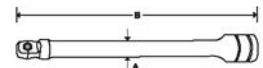
Locking Adaptors

Stock No.	A	B	C
GALX3	1/2	1/2	3 1/8

ASME®/ANSI® B107.10



305SXWP



Wobble Plus

- Provides 16° of additional accessibility
- Usable in wobble and rigid functionality
- Knurled shanks for easy fingertip turning

Stock No.	A	B	Set Contains:
SXWP2*	5/8	2	•
SXWP3	5/8	3	•
SXWP5	5/8	5	•
SXWP8	5/8	8	•
SXWP11	5/8	11	•

*Not Knurled
ASME/ANSI B107.10

Set shown includes storage tray

1/2" Locking Wobble Set

- Provides 16° of additional accessibility
- Quick release locking sleeve provides secure connection and easy socket removal
- Knurled release collar for easy one hand operation, even with slippery hands

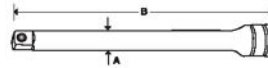
Stock No.	A	B	Set Contains:
SXWKL3	21/32	3	•
SXWKL5	21/32	5	•
SXWKL8	21/32	8	•

Set shown includes storage tray

1/2" Drive (Power)

Lock Button Retention

Stock No.	A	B
PS2	5/8	2
PS3	5/8	3 1/2
PS5	5/8	5
PS10	5/8	10



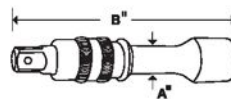
PS2

1/2" Drive (Impact)

Locking Extensions

Stock No.	A	B	Set Contains:	
			303IMXL	303IMXL
IMXL32	5/8	3 1/2	•	
IMXL52	5/8	5	•	
IMXL102	5/8	10	•	
IMXL182	5/8	18		•
IMXL242	5/8	24		•
IMXL312	5/8	31		•

Sets include storage tray



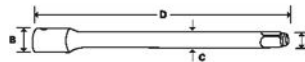
303IMXL

- Ideal for use on transmission bellhousing bolts, transaxle and suspension service
- Pull back collar for fast and easy attachment and removal of sockets
- Knurled release collar provides easy one hand operation
- Single body construction for maximum strength and locking mechanism specifically for impact use
- Female drive end recessed to accommodate newer style impact guns

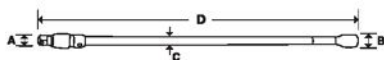
Snap Ring Retention

Stock No.	A	B	Set Contains:	
			304IMX	304IMX
IMX32B	5/8	3	•	
IMX52	21/32	5 3/32	•	
IMX112	21/32	11 1/4	•	

Set includes storage tray



304IMX



IMSFXL18

Locking Adaptors

- Quick release locking sleeve at 3/8" drive end provides a secure connection plus easy socket removal

Stock No.	A	B	C	D
IMSFXL18	3/8	1/2	21/32	18
IMSFXL24	3/8	1/2	21/32	24
IMSFXL33	3/8	1/2	21/32	33



IMXA42

Adaptor

Stock No.	A	B	C	D
IMXA42	3/8	1	1/2	4

- Do not use chrome or industrial finish hand tools with impact drivers
- Wobble extensions have about half the torque strength of extensions with conventional square drives
- Read safety precautions on pages W1 to W4



WARNING



EXTENSIONS

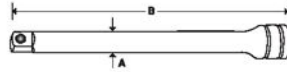
3/4" Drive (Chrome/Industrial Finish)



L32



GL42



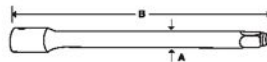
Extensions with Locking Button

Stock No.	Industrial Stock No.	A	B
L32	GL32	15/16	3
L42	GL42	15/16	5
L62	GL62	15/16	8
L122	GL122	15/16	16

3/4" Drive (Impact)



IM122B



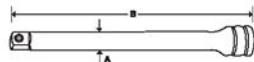
Extensions

Stock No.	A	B
IM132A	1	3
IM62B	1	7
IM92B	1	10
IM122B	1	13

1" Drive (Chrome)



L63



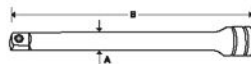
Extension with Locking Button

Stock No.	A	B
L63	1 1/4	8

1" Drive (Impact)



IM133



Extensions with Pin Hole

Stock No.	A	B
IM133	1	3
IM63B	1 1/8	7 1/8
IM123	1 3/8	13 1/8



IM243R



IM243P



IMR3

Master Ring and Pin Chart for Impact Sockets and Accessories

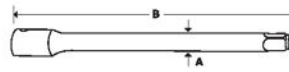
The following are required for tool use:

Stock No.	Description	Used With	See Page:
IM182R	Rubber Locking Ring	All 3/4" drive Sockets/Accessories	47-49, 80, 87, 495
IMR2	Socket Retainer	All 3/4" drive Sockets/Accessories	47-49, 80, 87, 495
IM243R	Rubber Locking Ring (Use with IM243P)	All 1" drive Sockets/Accessories up to 1 3/8" (35 mm) plus 3/4" drive IM124 Adaptor	49-52, 80, 88, 495
IM243P	Steel Locking Pin (Use with IM243R)	All 1" drive Sockets/Accessories up to 1 3/8" (35 mm) plus 3/4" drive IM124 Adaptor	49-52, 80, 88, 495
IMR3	Socket Retainer	All 1" drive Sockets/Accessories, All #5 Spline drive Sockets/Accessories	49-52, 80, 88, 495
IM483R	Rubber Locking Ring (Use with IM483P)	All 1" drive Sockets/Accessories from 1 7/16" (36 mm) and larger, All #5 Spline drive Sockets/Accessories	49-52, 80, 88, 495
IM483P	Steel Locking Pin (Use with IM483R)	All 1" drive Sockets/Accessories from 1 7/16" (36 mm) and larger, All #5 Spline drive Sockets/Accessories	49-52, 80, 88, 495
IM445R	Rubber Locking Ring	All 1 1/2" drive Sockets/Accessories	52-54, 88
IM729P	Steel Locking Pin	All 2 1/2" drive Sockets/Accessories	55-56

1 1/2" Drive (Impact)

Extensions with Pin Hole

Stock No.	A	B
IM105	2	10
IM155	2	15
IM205	2	20



IM105

1/4" Drive Accessories (Chrome/Industrial Finish)

Universal Joint

Stock No.	A	B
TMU8B	1/2	1 5/16
TMUL8	1/2	2 1/4



103UFTS

TMU8B Universal Joint.

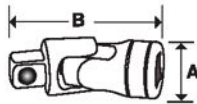
- Universal joints help increase access to hard to reach fastener applications
- Pins in the universal joint are laser welded and won't "walk" out over time

TMUL8 Locking Collar Universal Joint.

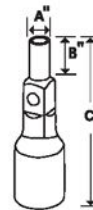
- Locking pin to ensure better socket retention

103UFTS Combination Drive Universal Joint Set.

- Includes 1/4" drive TMU8B, 3/8" drive FU8A (pg. 83), and 1/2" drive S8 (pg. 85)
- Universal joints (3 pcs) in storage tray



BLPUJ14



TMXM17

Universal Joint (Blue-Point®)

Stock No.	A	B
BLPUJ14	5/8	1 1/2

Magnetic Adaptors

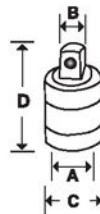
Stock No.	A	B	C
TMXM17	7/32	13/32	1 21/32
TMXM114	7/32	9/32	1 17/32

Square Drive Adaptors

Stock No.	Industrial Stock No.	A	B	C	D
	GFAT1E	3/8	1/4	11/16	1 1/4
TA3	GTA3	1/4	3/8	1/2	15/16

1206GS Combination Drive Adaptor Set.

- Includes 1/4" drive FAT1E (pg. 83) and TA3 adaptors, 3/8" drive A2A (pg. 83) and SAF1E adaptors and 1/2" drive LA12B (pg. 85) and LAS1E adaptors (6 pcs) in storage tray



1206GS



WARNING



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

ACCESSORIES

1/4" Drive (Chrome/Industrial Finish)



TM40ASA

Handled Driver/Stubby

Stock No.	C	E
TM40ASA	2 1/8	1 3/4



SGT4BR

Handled Drivers/Instinct® Handle

- Provides maximum turning power and increased comfort
- 6 specially designed curves and flutes provide fingertip control and aid in spinning
- Nickel-chrome plating helps protect against corrosion and makes cleaning easy

Stock No.	A	B	C
SGT4BR	5/16	2	6 13/16
SGTL4BR	5/16	6 3/8	8 1/8

SGTL4BR Features a locking pin for better socket retention.



TM4CSA

Handled Drivers/Square Drive Handle

- Internal square drive in handle allows use with various handles

Stock No.	A	B	C
TM4CSA	5/16	2 3/8	6
TM9CSA	5/16	6 3/8	10



BLPCGHD146

Handled Driver (Blue-Point®)

Stock No.	Description	C
BLPCGHD146	Spinner Handle	6



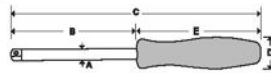
TMR4



TMRT8



TM615



TM62B

Ratcheting Driver

- Use with any 1/4" drive socket to create a ratcheting nut driver
- 3 position ratchet mechanism works in forward, reverse or lock out the ratcheting action completely

Stock No.	Color	B	C	E
TMR4	Black	3 7/8	8 31/32	5 3/32
TMR40	Orange	3 7/8	8 31/32	5 3/32
TMRT8	Black	8	10	2

Flexible Drivers

- For low torque applications

Stock No.	A	B	C
TM62B	1/4	2 7/32	6 3/4
TM63A	1/4	4 21/32	9 3/16
TM615	1/4	15	18 5/8



TMS4EK



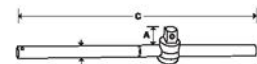
TMS4E

Speeder

Stock No.	A	B	C	D
TMS4E	5/16	7 1/8	3	16
TMS4EK	5/16	7 1/8	3	15 1/32



TM5



Sliding T-handle

- Designed for heavier applications
- For use as a T-handle or offset wrench
- Spring and friction ball holds head in position

Stock No.	A	B	C
TM5	13/16	5/16	4 1/2

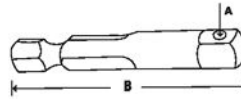
ASME®/ANSI® B107.10

1/4" Drive (Power/Impact)



Swivel Ball Universal Joint (Impact)

Stock No.	Retention Type	A	B
IPM80A	Lock Button	5/8	1 3/8
IPM800A	Friction Ball	5/8	1 3/8



GMB3042

Hex-To-Square Adaptors (Power)

- 1/4" hex size; 1" length of hex

Stock No.	A	B
GMB3041*	Friction Ball	1
GMB3042	Friction Ball	2
GMB3046	Friction Ball	6
GM3042A	Lock Button	2
GM3043	Lock Button	4
GM3046	Lock Button	6
GM3048	Lock Button	8

*Insert Bit Style, non impact

Locking Power Adaptors

- Use with electric/cordless drills and screwdrivers that accept 1/4" shanks
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Knurled sleeve provides easy attachment and removal of sockets even with the greasiest hands
- One handed lock mechanism with ball retention ensures socket retention and allows for faster socket attachment and removal
- Black oxide finish helps protect against corrosion for longer tool life

Stock No.	A	B	Set Contains:
TMLPA2	1/4	2	•
TMLPA4	1/4	4	•
TMLPA6	1/4	6	•

Set Contains:
103TMLPA



103TMLPA

Set includes storage tray

3/8" Drive (Chrome/Industrial Finish)



Universal Joints

Stock No.	Industrial Stock No.	A	B
FUL8A		3/4	3
FU8A**	GFU8A	3/4	2 1/16
FU80B**		11/16	1 11/16
FUB8A*		3/4	2 5/16

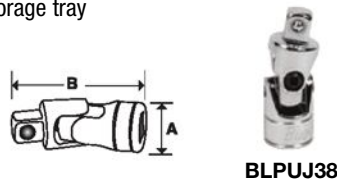
*Swivel Universal Joint **ASME®/ANSI® B107.10

FUL8A Locking Pin.

- Locking pin for better socket retention

103UFTS Combination Drive Universal Joint Set.

- Includes 1/4" drive TMU8B (pg. 81), 3/8" drive FU8A (this page), and 1/2" drive S8 (pg. 85) universal joints (3 pcs) in a storage tray



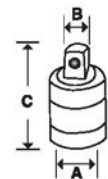
BLPUJ38

Universal Joints (Blue-Point®)

Stock No.	A	B
BLPUJ38		2 1/32



206EAU



1206GS

Adaptors

Stock No.	Industrial Stock No.	A	B	C
	GFAT1E	3/8	1/4	1 1/4
TA3	GTA3	1/4	3/8	15/16
A2A	GAF2A	3/8	1/2	1 5/16
	GSAF1E	1/2	3/8	1 13/16

206EAU Adaptor/Extension Set.

- Includes FAT1E and A2A adaptors (this page); FU8A universal joint (this page) and FX1, FXK3 and FXK6 extensions (pg. 74) (6 pcs) in storage tray

1206GS Combination Drive Adaptor Set.

- Includes 1/4" drive FAT1E and TA3 adaptors (pg. 81); 3/8" drive A2A and SAF1E adaptors (this page) and 1/2" drive LA12B and LAS1E adaptors (pg. 85) (6 pcs)



WARNING



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

ACCESSORIES

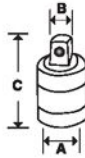
3/8" Drive (Chrome/Industrial Finish)



BLPAFM3814



BLPAFM1438



FXM18



Adaptors (Blue-Point®)

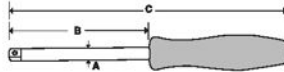
Stock No.	Description	A	B
BLPAFM3814	Square Drive Adaptor	3/8	1/4
BLPAFM1438	Square Drive Adaptor	1/4	3/8

Magnetic Adaptors

Stock No.	A	B	C
FXM112	5/16	9/32	1 25/32
FXM18	3/16	9/32	1 25/32



SGF50BR



F40B

Handled Drivers

Stock No.	A	B	C
SGF50BR*	1/2	3 3/32	8
F40B	1/2	1	5 5/16

*Instinct® Handle



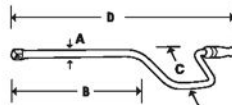
BLPCGHD388

Handled Drivers (Blue-Point)

Stock No.	Description	C
BLPCGHD388	Spinner Handle	8 5/8



F4LB



F4LBK

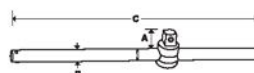
Speeders

Stock No.	A	B	C	D
F4LB	13/32	7 7/8	3 1/2	17 27/32
F4LBK*	13/32	7 7/8	3 1/2	16 5/8

*Speeder with knob.



F5L



Sliding T-handles

Stock No.	A	B	C
F5L	3/4	13/32	8



TURBOT103

Turbo T-handle Speed Drivers (Blue-Point)

Stock No.	Description	Handle Type
T9TURBO	1/4" square drive	Turbo T-handle
TH10TURBO	1/4" hex	Turbo T-handle
F11TURBO	3/8" square drive	Turbo T-handle

TURBOT103 Turbo T-handle Set.

- T9TURBO (1/4" drive), TH10TURBO (1/4" hex) and F11TURBO (3/8" drive)
- 3 pcs in storage tray

3/8" Drive (Power/Impact)

Adaptors (Power)

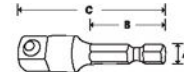
Stock No.	Socket Attachment	A	B	C	D
PA2A	Pin Type	3/8	1/2	3/4	1 13/16
PA4E	Pin Type	1/2	3/8	15/16	1 13/16



PA2A

Hex-To-Square Adaptors (Power)

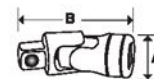
Stock No.	Socket Attachment	A	B	C
A3042	Pin Type	1/4	1	2
A3044	Pin Type	1/4	1	4
A3046	Pin Type	1/4	1 1/4	6
A3017A	Pin Type	7/16	1 1/4	1 3/4
AB3042	Ball Type	1/4	1	2
AB3044	Ball Type	1/4	1	4
AB3046	Ball Type	1/4	1 1/4	6



A3042

Universal Joint (Power)

Stock No.	Socket Attachment	A	B
PFU8A	Pin Type	3/4	1 31/32



PFU8A

Universal Joints (Impact)

Stock No.	Socket Attachment	A	B
IPF80B	Pin Type	1	2 1/8
IPF800B	Ball Type	1	2 1/8



IPF80B

1/2" Drive (Chrome/Industrial Finish)

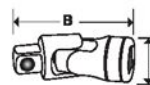
Universal Joints

Stock No.	Industrial Stock No.	A	B
S8	GU8	15/16	2 11/16

ASME®/ANSI® B107.10

103UFTS Set.

- Includes 1/4" drive TMU8B (pg. 81), 3/8" drive FU8A (pg. 83) and 1/2" drive S8 (this page) universal joints
- 3 pcs in storage tray



GU8

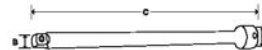
S8

Universal Joints (Blue-Point®)

Stock No.	B
BLPUJ12	2 3/4



BLPUJ12



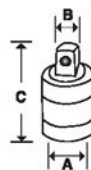
GAX12

Adaptors

Stock No.	Industrial Stock No.	A	B	C
	GSAF1E	1/2	3/8	1 1/2
A2A	GAF2A	3/8	1/2	1 5/16
	GLA12B	1/2	3/4	1 7/8
	GLAS1E	3/4	1/2	3



GLA12B



Extension Adaptors

Stock No.	Retention Type	A	B	C
GAX5	Ball Type	1/2	3/8	5
GAX12	Ball Type	1/2	3/8	12
GAX24	Ball Type	1/2	3/8	23 1/4
GAX36	Ball Type	1/2	3/8	36

ASME/ANSI B107.10

ASME/ANSI B107.10



WARNING



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

ACCESSORIES

1/2" Drive (Chrome/Industrial Finish)



Speeders

Stock No.	A	B	C	D
S4	1/2	7	4 3/8	18 7/8
SN4B*	5/8	6 3/8	3	17 1/4
SL4	1/2	7 3/8	4 7/16	19 1/8

ASME®/ANSI® B107.10
 *Uses RKBB3 Repair Kit.

SL4 Locking Speeder.

- Sliding collar and locking pin for better socket retention

Sliding T-handle

Stock No.	A	B	C
S12L	1 11/16	5/8	12

ASME/ANSI B107.10

Turbo T-handle Speed Drivers (Blue-Point®)

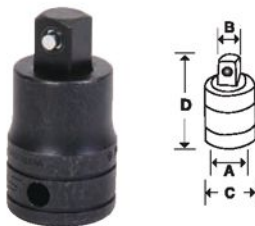
Stock No.	Description	Handle Type
S13TURBO	1/2" Speed driver	Turbo T-Handle



1/2" Drive (Power/Impact)

Adaptors (Power)

Stock No.	Socket Attachment	A	B	C	D
PA2A	Pin Type	3/8	1/2	3/4	1 5/16
PA4E	Pin Type	1/2	3/8	15/16	1 13/16



PA2A

Hex Shank (Power)

Stock No.	Socket Attachment	A	B	C	D
A3011A	Pin Type	1/2	7/16	1 1/4	2 3/4



A3011A

Universal Joint (Impact)

Stock No.	Drive Size	Socket Attachment	A	B	Set Contains:
IP800	3/8	Ball Type	1 1/4	2 3/4	•
IP80D	1/2	Pin Type	1 1/4	2 3/4	•

Set Contains: **202IP**

Set includes storage tray



202IP

3/4" Drive (Chrome/Industrial Finish)

Universal Joints

Stock No.	A	B
L82A	1 9/16	3 7/8



L82A

Adaptors

Stock No.	A	B	C	D
GLA12B	1/2	3/4	1 1/8	1 7/8
GLAS1E	3/4	1 1/2	1 7/16	2 7/16
GLA72A	3/4	1	1 7/16	2 5/8
GLA124A	1	3/4	1 13/16	2 3/4



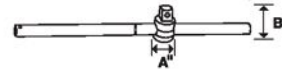
GLAS1E

Sliding T-handle

- Designed for heavier applications
- Spring and friction ball hold head in position

Stock No.	A	B
L52B	1 1/2	2 5/16

Use L52B with L872H handle on pg.15.



L52B

3/4" Drive (Impact)

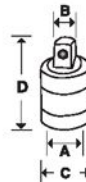


IP82

Swivel Ball Universal Joint

- Maximum Accessibility Design
- No internal spring used

Stock No.	A	B
IP82	1 3/4	3 5/32



IM124B

Adaptors

Stock No.	A	B	C	D
IM72	3/4	1 with Pin Hole	1 5/8	2 9/16
IM124B	1	3/4 with Pin Hole	2 3/8	2 13/16

Ring and Pin Chart for 3/4" Drive Impact Sockets and Accessories

The following are required for tool use:

Stock No.	Description	Used With
IM182R	Rubber Locking Ring	All 3/4" drive Sockets/Accessories
IMR2	Socket Retainer	All 3/4" drive Sockets/Accessories
IM243R	Rubber Locking Ring (Use with IM243P)	1" drive Sockets/Accessories plus IM124B Adaptor
IM243P	Steel Locking Pin (Use with IM243R)	1" drive Sockets/Accessories plus IM124B Adaptor



IM182R



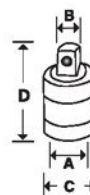
IM243P

1" Drive (Chrome/Industrial Finish)

Adaptors

Stock No.	A	B	C	D
GLA72A	3/4	1	1 7/16	2 5/8
GLA124A	1	3/4	1 13/16	2 3/4

ASME®/ANSI® B107.10



GLA72A



WARNING



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

ACCESSORIES

1" Drive (Chrome/Industrial Finish)



Sliding T-handle

Stock No.	C	Sliding Head Only Stock No.	A	Handle Stock No.
L53	29	L53A	2	L53HB

1" Drive (Impact)



Swivel Universal Joint with Pin Hole

Stock No.	A	B
IP83	2 1/2	4 3/16

IP83



Adaptors with Pin Hole

IM35

Stock No.	A	B	C	D
IM72	3/4	1	1 5/8	2 9/16
IM124B	1	3/4	2 3/8	2 13/16
IM35	1	1 1/2	2 1/4	3 1/2
IM53	1 1/2	1	3 1/4	4 1/4

1 1/2" and #5 Spline Drive (Impact)



Swivel Universal Joint

Stock No.	Retention Type	A	B
IP85	Pin Hole	3 5/8	6 1/16

IP85



L55

Sliding T-handle

Stock No.	C	Sliding Head Only Stock No.	A	Handle Stock No.
L55	36	L55-2	2 7/8	L55-1



Square Drive Adaptors

Stock No.	A	B	C	D
IM35	1	1 1/2	2 1/4	3 1/2
IM53	1 1/2	1	3 1/4	4 1/4
IM59	2 1/2	1 1/2	3 1/4	4 3/4
IM95	1 1/2	2 1/2	5	6 3/8

IM53



IMSA3

Spline to Square Drive Adaptor

Stock No.	A	B	C	D
IMSA3	1" Square	No. 5, 14 Tooth	2 3/8	3 3/8



IMR3



IM483R




IM483P

Ring and Pin Chart for 1", 1 1/2" and #5 Spline Drive Impact Sockets and Accessories

The following are required for tool use:

Stock No.	Description	Use with
IM243R	Rubber Locking Ring (Use with IM243P)	All 1" drive Sockets/Accessories up to 1 3/8" (35 mm) plus 3/4" drive IM124 Adaptor
IM243P	Steel Locking Pin (Use with IM243R)	All 1" drive Sockets/Accessories up to 1 3/8" (35 mm) plus 3/4" drive IM124 Adaptor
IMR3	Socket Retainer	All 1" drive Sockets/Accessories, All #5 Spline drive Sockets/Accessories
IM483R	Rubber Locking Ring (Use with IM483P)	All 1" drive Sockets/Accessories from 1 7/16" (36 mm) and larger, All #5 Spline drive Sockets/Accessories
IM483P	Steel Locking Pin (Use with IM483R)	All 1" drive Sockets/Accessories from 1 7/16" (36 mm) and larger, All #5 Spline drive Sockets/Accessories
IM445R	Rubber Locking Ring	All 1 1/2" drive Sockets/Accessories

1605TA General Service Torx® Set 5 Tools, Includes:

	6 Point Sockets
3/32"	T6
1/8"	T8
5/32"	T10
3/16"	T12
1/8" Drive Handle	T40A







1605TA



144TMPB


144TMPB 6 Point Metric/Fractional Set 44 Tools, Includes:

 mm	6 Point Shallow Sockets	 mm	6 Point Shallow Sockets	 mm	6 Point Deep Sockets	 mm	6 Point Deep Sockets
5.5	TMM5.5	3/16	TM6*	5.5	STMM5.5	3/16	STM6
6	TMM6	7/32	TM7*	6	STMM6	7/32	STM7
7	TMM7	1/4	TM8	7	STMM7	1/4	STM8
8	TMM8	9/32	TM9	8	STMM8	9/32	STM9
9	TMM9	5/16	TM10	9	STMM9	5/16	STM10
10	TMM10	11/32	TM11	10	STMM10	11/32	STM11
11	TMM11	3/8	TM12	11	STMM11	3/8	STM12
12	TMM12	7/16	TM14	12	STMM12	7/16	STM14
13	TMM13	1/2	TM16	13	STMM13	1/2	STM16
14	TMM14	9/16	TM18	14	STMM14	9/16	STM18

Also Includes:	T72	High Strength Sealed Ratchet
	TMU8B	Universal Joint
	TMXK2	2" Knurled Extension
	TMXK60	6" Knurled Extension
	PB99A	Storage Box

*Conventional hex

117TMM Metric 6 Point Starter Set 17 Tools, Includes:

 mm	6 Point Shallow Sockets
4	TMM4
5	TMM5
5.5	TMM5.5
6	TMM6
7	TMM7
8	TMM8
9	TMM9
10	TMM10
11	TMM11
12	TMM12
13	TMM13
14	TMM14
15	TMM15




117TMM

Also Includes:	T72	High Strength Sealed Ratchet
	TMU8B	Universal Joint
	TMXK2	2" Knurled Extension
	TMXK4	4" Knurled Extension



131TMPB

131TMPB 6 Point Metric Set 31 Tools, Includes:

 mm	6 Point Shallow Socket	6 Point Deep Socket
5	TMM5	STMM5
5.5	TMM5.5	STMM5.5
6	TMM6	STMM6
7	TMM7	STMM7
8	TMM8	STMM8
9	TMM9	STMM9
10	TMM10	STMM10
11	TMM11	STMM11
12	TMM12	STMM12
13	TMM13	STMM13
14	TMM14	STMM14
15	TMM15	STMM15

Also Includes:	TMXK60	6" Knurled Extension
	SSDMR4B	Magnetic Ratcheting Screwdriver
	TMXK2	2" Knurled Extension
	T72	High Strength Sealed Ratchet
	TM10G	Breaker Bar
	TMU8B	Universal Joint
	GMB3041	Hex to Square Adaptor



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4


GENERAL SERVICE SETS

1/4" Drive



120DTMPB

120DTMPB 6 Point Fractional General Service 20 Tools, Includes:

	6 Point Shallow Sockets
3/16	TM6
7/32	TM7
1/4	TM8
9/32	TM9
5/16	TM10
11/32	TM11
3/8	TM12
7/16	TM14
1/2	TM16
9/16"	TM18

Also Includes:	TM4CSA	Handle
	TM10G	6" Breaker Bar
	TM408	Double Square Socket 1/4"
	TM410	Double Square Socket 5/16"
	TM412	Double Square Socket 3/8"
	T72	High Strength Sealed Ratchet
	TMU8B	Universal Joint
	TMXK2	2" Knurled Extension
	TMXK4	4" Knurled Extension
	TMXK60	6" Knurled Extension




134ATMP





114ATMP

114ATMP 6 Point Fractional Set 14 Tools, Includes:

	6 Point Shallow Sockets
3/16	TM6
7/32	TM7
1/4	TM8
9/32	TM9
5/16	TM10
11/32	TM11
3/8	TM12
7/16	TM14
1/2	TM16
9/16	TM18

Also Includes:	T72	High Strength Sealed Ratchet
	TMU8B	Universal Joint
	TMXK2	2" Knurled Extension
	TMXK4	4" Knurled Extension

134ATMP 6 Point Fractional Set 34 Tools, Includes:

	6 Point Shallow Sockets		6 Point Deep Sockets
3/16	TM6	3/16	STM6
7/32	TM7	7/32	STM7
1/4	TM8	1/4	STM8
9/32	TM9	9/32	STM9
5/16	TM10	5/16	STM10
11/32	TM11	11/32	STM11
3/8	TM12	3/8	STM12
7/16	TM14	7/16	STM14
1/2	TM16	1/2	STM16
9/16	TM18	9/16	STM18

Also Includes:	T72	High Strength Sealed Ratchet
	TMU8B	Universal Joint
	TMXK2	2" Knurled Extension
	TMXK4	4" Knurled Extension
	TMXK60	6" Knurled Extension
	SGT4BR	Long Shank Driver
	TM10G	6" Breaker Bar
	TM61A	6" Flexible Extension
	TM67A	Ratchet Adaptor
	TM82	Flat Tip Driver .036 x 1/4"
	TM408	Double Square Socket 1/4"
	TM410	Double Square Socket 5/16"
	TM412	Double Square Socket 3/8"
	TMS70A	Ratchet Spinner

Set (Add-on)

107ATMPB Expandable General Service Set and Additions. Start with the 107ATMPB General Service Set and add any of the suggested socket sets below to custom build exactly the 1/4" drive set you need. The storage case has a large enough cavity to accommodate 2 rows of sockets standard, semi deep, deep, universal, or any combination of these in fractional or metric sizes.

7 Tools, Includes:

T72	High Strength Sealed Ratchet
TMU8B	Universal Joint 1/4" Drive
TMXK2	2" Knurled Extension
TMXK4	4" Knurled Extension
TMXK60	6" Knurled Extension
TM10G	Breaker Bar 6"
SGT4BR	Long Shank Driver 1/4"

Suggested additions not included in set:	110TMY	6 Point Shallow Socket Set (10 pcs)
	110STMY	6 Point Deep Socket Set (10 pcs)
	111TMMDY	12 Point Metric Shallow Socket Set (11 pcs)
	111STMMDY	12 Point Metric Deep Socket Set (11 pcs)
	106ETMAMY	Metric Hex Driver Set (6 pcs)



107ATMPB

General Service Sets (Blue-Point®)

BLPGSS1427 General Service Set.

Components (all 1/4" drive):

- 11 Fractional (3/16 to 5/8") 6 point Shallow Sockets
- 11 Fractional (3/16 to 9/16") 6 point Deep Sockets
- 3 Ratchet/Socket Accessories
- 1 Quick Release Ratchet
- 1 Spinner Handle
- BLP SS1427PB storage case



BLPGSS1427

BLPGSSM1427 General Service Set.

Components (all 1/4" drive):

- 11 Metric (4 to 14 mm) 6 point Shallow Sockets
- 11 Metric (4 to 14 mm) 6 point Deep Sockets
- 3 Ratchet/Socket Accessories
- 1 Quick Release Ratchet
- 1 Spinner Handle
- BLP SSM1427PB storage case



BLPGSSM1427

BLPGSS1438 General Service Set.

Components (all 1/4" drive):

- 11 Fractional (3/16 to 5/8") and 11 Metric (4 to 14 mm) 6 point Shallow Sockets
- 4 fractional hex bits (9/64, 3/16, 7/32, 1/4")
- 3 flat tip bits (5/32, 3/16, 1/4")
- 2 Phillips® tip bits (#1, #2)
- 5 Ratchet/Socket Accessories
- 1 Quick Release Ratchet
- 1 Spinner Handle
- BLP SS1438PB storage case



BLPGSS1438



WARNING



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

GENERAL SERVICE SETS

1/4" -3/8" Drive (Blue-Point®)



BLPGSS1462



BLPGSS1451A



BLPGSSC100



BLPGSSC155

BLPGSS1462 General Service Set.

Components (all 1/4" drive):

- 11 fractional (3/16 to 5/8") and 11 metric (4 to 14 mm) standard sockets
- 11 fractional (3/16 to 5/8") and 11 metric (4 to 14 mm) deep sockets
- 1 bit holder
- 4 hex bits (9/64, 3/16, 7/32, 1/4")
- 3 flat tip bits (5/32, 3/16, 1/4")
- 2 Phillips® bits (#1, #2)
- 7 ratchet/socket accessories
- 1 ratchet
- BLP SS1462PB storage case

BLPGSS1451A General Service Set.

Components (all 1/4" drive):

- 10 fractional (3/16 to 9/16") and 13 metric (4 to 14 mm) standard sockets
- 3 fractional (1/4, 5/16, 3/8") 8 point sockets
- 6 Torx® socket drivers (T8 to T27)
- 6 fractional hex socket drivers (1/8 to 5/16")
- 3 flat tip socket drivers (5/32, 7/32, 9/32")
- 3 Phillips socket drivers (#0, #1, #2)
- 6 ratchet/socket accessories
- 1 ratchet
- BLP SS1451AC storage case

BLPGSSC100 General Service Set.

Components (1/4" Drive):

- 10 fractional (3/16 to 9/16") and 13 metric (4 to 14 mm) standard sockets
- 5 ratchet/socket accessories
- 1 ratchet

Components (3/8" Drive):

- 13 fractional (1/4 to 1") and 19 metric (6 to 24 mm) standard sockets
- 11 external Torx sockets (E4 to E20)
- 2 spark plug sockets (5/8, 13/16")
- 5 ratchet/socket accessories
- 1 ratchet
- 1 spinner handle

Components (Combination Wrenches):

- 9 fractional combination wrenches (1/4 to 3/4")
- 10 metric combination wrenches (10 to 19 mm)
- BLP SSC100PB storage case

BLPGSSC155 General Service Set.

Components (1/4" Drive):

- 10 fractional (3/16 to 9/16") and 13 metric (4 to 14 mm) standard sockets
- 10 fractional (3/16 to 9/16") and 11 metric (4 to 14 mm) deep sockets
- 20 assorted 1/4" hex bits with bit holder
- 5 ratchet/socket accessories
- 1 quick release ratchet
- 1 spinner handle 1/4"

Components (3/8" Drive):

- 13 fractional (1/4 to 1") and 19 metric (6 to 24 mm) standard sockets
- 11 fractional (3/8 to 1") and 15 metric (10 to 24 mm) deep sockets
- 11 external Torx sockets (E4 to E20)
- 2 spark plug sockets (5/8, 13/16")
- 3 metric hex socket drivers (7, 8, 10 mm)
- 4 tamper resistant Torx socket drivers (T40, T45, T50, T55)
- 5 ratchet/socket accessories
- 1 quick release ratchet
- BLP SSC155PB storage case

Build Your Own Set

The 206AFSP handle set is the foundation for the ideal basic general service set. Add any of the suggested socket sets or choose from various special purpose sockets available in fractional and metric sizes.

206AFSP Handle Set.

Includes:

- F80 sealed ratchet, FU8A universal joint, FX1 extension (1 1/2"), FXK3 knurled extension (3"), FXK6 knurled extension (6") and FXK11 knurled extension (11")
- 6 pcs in convenient PB16B storage case large enough to store 4 rows of standard length sockets, 2 rows of deep or universal sockets or a combination of the two



206AFSP





218AFSP




210AFSP

Suggested additions not included in set:

	Stock No.		Stock No.
6 Point Shallow Set	211FSY	6 Point Shallow Set	212FSMY
6 Point Shallow Set	212FY	6 Point Semi Deep Set	212SFSMY
6 Point Deep Set	211SFSY	12 Point Deep Set	212SFMY
12 Point Shallow Set	211SFY	6 Point Semi Deep Set	212FSMSY
6 Point Deep Universal Set	207FSU	12 Point Semi Deep Set	212FMSY
12 Point Semi Deep Set	211FDSY	12 Point Shallow Set	212FMY

218AFSP 6 Point Fractional General Service Set. 18 Tools, Includes:



	6 Point Shallow Sockets
1/4	FS081
5/16	FS101
3/8	FS121
7/16	FS141
1/2	FS161
9/16	FS181
5/8	FS201
11/16	FS221
3/4	FS241
13/16	FS261
7/8	FS281

Also Includes:	Part No.	Description
	F80	Standard Handle Sealed Ratchet
	F4LB	Speeder
	F10LC	Breaker Bar
	FU8A	Universal Joint
	FXK3	3" Knurled Extension
	FXK6	6" Knurled Extension
	FXK11	11" Knurled Extension




222AFSP

222AFSP 6 Point Fractional General Service Set. 22 Tools, Includes:

	6 Point Shallow Sockets		6 Point Deep Sockets
3/8	FS121	3/8	SFS121
7/16	FS141	7/16	SFS141
1/2	FS161	1/2	SFS161
9/16	FS181	9/16	SFS181
5/8	FS201	5/8	SFS201
11/16	FS221	11/16	SFS221
3/4	FS241	3/4	SFS241

210AFSP 6 Point Fractional General Service Set. 10 Tools, Includes:

	6 Point Shallow Sockets
3/8	FS121
7/16	FS141
1/2	FS161
9/16	FS181
5/8	FS201
11/16	FS221
3/4	FS241

Also Includes:	Part No.	Description
	F80	Standard Handle Sealed Ratchet
	FXK3	3" Knurled Extension
	FXK6	6" Knurled Extension

Also Includes:	Part No.	Description
	F80	Standard Handle Sealed Ratchet
	S9704KA	13/16" Spark Plug Socket
	S9706KA	5/8" Spark Plug Socket
	F10LC	Breaker Bar
	FU8A	Universal Joint
	FXK3	3" Knurled Extension
	FXK4	4" Knurled Extension
	FXK8	8" Knurled Extension



WARNING



- Do not use chrome or industrial finish hand tools with impact drivers
- Read complete safety precaution information on pages W1 to W4

GENERAL SERVICE SETS

3/8" Drive



248F



218AFP

248F 12 Point Fractional General Service Set.
48 Tools, Includes:

	12 Point Shallow Sockets		12 Point Deep Sockets		12 Point Universal Sockets
1/4	F081	1/4	SF081	5/16	FU10A
5/16	F101	5/16	SF101	3/8	FU12A
3/8	F121	3/8	SF121	7/16	FU14A
7/16	F141	7/16	SF141	1/2	FU16A
1/2	F161	1/2	SF161	9/16	FU18A
9/16	F181	9/16	SF181	5/8	FU20A
5/8	F201	5/8	SF201	11/16	FU22A
11/16	F221	11/16	SF221	3/4	FU24A
3/4	F241	3/4	SF241	13/16	FU26A
13/16	F261	13/16	SF261	7/8	FU28A
7/8	F281	7/8	SF281	15/16	FU30A
15/16	F301			1	FU32A

218AFP 12 Point Fractional General Service Set
(Tools only). 18 Tools, Includes:

	12 Point Shallow Sockets
1/4	F081
5/16	F101
3/8	F121
7/16	F141
1/2	F161
9/16	F181
5/8	F201
11/16	F221
3/4	F241
13/16	F261
7/8	F281

Also Includes:	Item	Description
	F80	Standard Handle Sealed Ratchet
	F40B	Short Shank Driver
	FXK4	4" Extension
	FRS70A	Ratchet Spinner
	FXK6	6" Extension
	F4LB	Speeder
	F77	Ratchet Adaptor
	FXK11	11" Extension
	F5L	Sliding T-Handle
	FU8A	Universal Joint
	F10LC	Breaker Bar
	FXK3	3" Knurled Extension
	BLPEXTF388	8" Flexible Extension

Also Includes:	Item	Description
	F80	Standard Handle Sealed Ratchet
	F4LB	Speeder
	F10LC	Breaker Bar
	FU8A	Universal Joint
	FXK3	3" Knurled Extension
	FXK6	6" Knurled Extension
	FXK11	11" Knurled Extension



292F

292F 6/12 Point General Service Set. 92 Tools, Includes:

6 Point Shallow Sockets: 211SFY	Shallow, 6 Point (11 pcs) (1/4 to 7/8")
6 Point Deep Sockets: 211SFSY	Deep, 6 Point (11 pcs) (1/4 to 7/8")
12 Point Deep Sockets: 211SFY	Deep, 12 Point (11 pcs) (1/4 to 7/8")
12 Point Shallow Sockets: 211FY	Shallow, 12 Point (11 pcs) (1/4 to 7/8")
12 Point Shallow Universal Sockets:	Universal, Shallow, 12 Point (12 pcs) (5/16 to 1")

Also Includes:	Item	Description	Item	Description	Item	Description
	F80	Standard Handle Sealed Ratchet	FXK6	6" Knurled Extension	F30E	5/16" Clutch Type Driver
	FLF80	Sealed Flex Head Ratchet	FXK8	8" Knurled Extension	FA5E	5/32" Hex Driver
	F4LB	Speeder	FXK11	11" Knurled Extension	FA6E	3/16" Hex Driver
	F5L	Sliding T-Handle	FP22E	#2 Phillips® Driver	FA7E	7/32" Hex Driver
	F10LC	Breaker Bar	FP32E	#3 Phillips Driver	FA8E	1/4" Hex Driver
	F40B	Short Shank Driver	FP42E	#4 Phillips Driver	FA10E	5/16" Hex Driver
	FRS70A	Ratchet Spinner	S9704KFUA	13/16" Spark Plug Universal Socket	FA12E	3/8" Hex Driver
	F77	Ratchet Adaptor	GF22	Drag Link Socket	PP409A	9/32" Pipe Plug Socket
	FU8A	Universal Joint	F23E	1/4" Flat Tip Socket Driver	PP410A	5/16" Pipe Plug Socket
	FX1	1 1/2" Extension	F25E	5/16" Flat Tip Socket Driver	PP412A	9/32" Pipe Plug Socket
	FXK3	3" Knurled Extension	F31E	3/8" Flat Tip Socket Driver	BLPEXTF388	8" Flexible Extension
	FXK4	4" Knurled Extension	F29E	3/8" Clutch Type Driver	PP412A	11/32" Shallow Socket

222AFSMP 6 Point Metric General Service Set.

22 Tools, Includes:

mm	6 Point Shallow Sockets:	mm	6 Point Deep Sockets:
10	FSM101	10	SFSM10
11	FSM111	11	SFSM11
13	FSM131	13	SFSM13
14	FSM141	14	SFSM14
15	FSM151	15	SFSM15
17	FSM171	17	SFSM17
19	FSM191	19	SFSM19



222AFSMP

Also Includes:		
F80		Standard Handle Sealed Ratchet
FU8A		Universal Joint
F10LC		Breaker Bar
FXX3		3" Knurled Extension
FXX4		4" Knurled Extension
FXX8		8" Knurled Extension
S9704KA		13/16" Spark Plug Socket
S9706KA		5/8" Spark Plug Socket
PB17B		Storage Case



262MFB



KRA21G

262MFB 6/12 Point Metric General Service Set. 61 Tools, Includes:

mm	6 Point Shallow Sockets	mm	12 Point Shallow Sockets	mm	12 Point Deep Sockets	mm	6 Point Shallow Universal Sockets
8	FSM81	9	FM9	8	SFM8	8	FSUM8A
9	FSM91	10	FM10	9	SFM9	10	FSUM10A
10	FSM101	11	FM11	10	SFM10	11	FSUM11A
11	FSM111	12	FM12	11	SFM11	12	FSUM12A
12	FSM121	13	FM13	12	SFM12	13	FSUM13A
13	FSM131	14	FM14	13	SFM13	14	FSUM14A
14	FSM141	15	FM15	14	SFM14	15	FSUM15A
15	FSM151	16	FM16	15	SFM15	16	FSUM16A
16	FSM161	17	FM17	16	SFM16	17	FSUM17A
17	FSM171	18	FM18	17	SFM17	18	FSUM18A
18	FSM181	19	FM19	18	SFM18	19	FSUM19A
19	FSM191			19	SFM19	22	FSUM22A

Also Includes:		
F80		Standard Handle Sealed Ratchet
F4LB		Speeder
F10LC		Breaker Bar
F40B		Short Shank Driver
FRS70A		Ratchet Spinner
F77		Ratchet Adaptor
FU8A		Universal Joint
FXX3		3" Knurled Extension
FXX6		6" Knurled Extension
FXX11		11" Knurled Extension
S9704KR		13/16" Spark Plug Socket
BLPEXTF388		8" Flexible Extension
S9706KA		5/8" Spark Plug Socket
S9716KA		9/16" Spark Plug Socket
KRA21G		Metal Box



WARNING



- Do not use chrome or industrial finish hand tools with impact drivers
- Read complete safety precaution information on pages W1 to W4

GENERAL SERVICE SETS

3/8" Drive



STARTERSET3

STARTERSET3 6 Point Metric Starter Set.

- High strength sealed head ratchet built for strength, precision, and durability
- Stronger alloy steel allows extensions to be turned to a smaller diameter for greater accessibility
- Sockets feature Flank Drive® wrenching system which grips the fastener on the flanks/flats increasing torque by up to 15-20%
- Nickel chrome plating provides a wear resistant finish along with a mirror like finish
- Universal joint helps increase access to hard to reach fasteners

17 pieces, Includes:

mm	6 Point Deep Sockets	mm	6 Point Deep Sockets
8	SFSM8	14	SFSM14
9	SFSM9	15	SFSM15
10	SFSM10	16	SFSM16
11	SFSM11	17	SFSM17
12	SFSM12	18	SFSM18
13	SFSM13	19	SFSM19

Also Includes:		
	FL80A	Sealed Ratchet
	FUBA	Universal Joint
	FXK3	3" Knurled Extension
	FXK6	6" Knurled Extension
	S9706KA	5/8" Spark Plug Socket



STARTERSET5

STARTERSET5 6 Point Metric Starter Set.

- High strength sealed head ratchet built for strength, precision and durability
- Wobble engagement on extensions provides 16 of additional accessibility
- Sockets feature *Flank Drive* wrenching system which grips the fastener on the flanks/flats increasing torque by up to 15-20%
- Nickel chrome plating provides a wear resistant finish along with a mirror like finish
- Highest quality steel on breaker bar provides strength and durability

17 pieces, Includes:

mm	6 Point Shallow Sockets	mm	6 Point Shallow Sockets
8	FSM81	14	FSM141
9	FSM91	15	FSM151
10	FSM101	16	FSM161
11	FSM111	17	FSM171
12	FSM121	18	FSM181
13	FSM131	19	FSM191

Also Includes:		
	F12LA	Breaker Bar
	F80	Sealed Ratchet
	FXWP1	1 1/2" Wobble Plus Extension
	FXWP3	3" Wobble Plus Extension
	FXWP6	6" Wobble Plus Extension

1/4" - 3/8" Drive (Blue-Point®)



BLPGSSC100

BLPGSSC100 General Service Set.

Components (1/4" Drive):

- 10 fractional (3/16 to 9/16") and 13 metric (4 to 14 mm) standard sockets
- 6 ratchet/socket accessories
- 1 ratchet

Components (3/8" Drive):

- 13 fractional (1/4 to 1") and 19 metric (6 to 24 mm)
- 11 external Torx® sockets (E4 to E20)
- 2 spark plug sockets (5/8", 13/16")
- 5 ratchet/socket accessories
- 1 ratchet

Components (Combination Wrenches):

- 9 fractional combination wrenches (1/4 to 3/4")
- 10 metric combination wrenches (10 to 19 mm)
- BLP SSC100PB storage case

GENERAL SERVICE SETS

1/4" - 3/8" Drive (Blue-Point®)



BLPGSSCT71



BLPGSS3837



BLPGSSC155

General Service Sets

BLPGSSCT71 General Service Set.

Components (3/8" Drive):

- 9 fractional combination wrenches (1/4 to 3/4")
- 10 metric combination wrenches (1/4 to 3/4")
- 12 fractional (5/16 to 1") and 15 metric (10 to 24 mm) 6 point standard sockets
- 2 spark plug sockets (5/8, 13/16")
- 1 quick release ratchet
- 1 spinner Handle
- 3 extensions (3, 6 and 10")
- 1 bit holder (3/8" drive)
- 4 hex bits (1/8, 5/32, 7/32 and 1/4")
- 3 flat tip bits (5/32, 3/16 and 1/4")
- 4 Phillips® tip bits (#0, #1, #2 and #3)
- 2 Square tip bits (#1 and #2)
- 1 diagonal cutting pliers (7")
- 1 long nose pliers (6")
- 1 groove joint pullers (10")
- 1 adjustable wrench (8")
- BLPGSSCT71PB storage case

BLPGSS3837 General Service Set.

Components (3/8" Drive):

- 8 fractional (5/16 to 3/4") and 14 metric (6 to 19 mm) standard 6 point sockets
- 4 fractional (5/16-3/8", 7/16-1/2", 9/16-5/8", 11/16-3/4") and 5 metric (10-11, 12-13, 14-15, 16-17, 18-19 mm) double open end wrenches
- 2 extensions: 3 and 6"
- 1 ratchet
- 1 universal joint
- 2 adaptors: 1/4" f x 3/8" m, 3/8" f x 1/4" m
- BLPGSS3837PB storage box

BLPGSSC155 General Service Set.

Components (1/4" Drive):

- 10 fractional (3/16 to 9/16") and 13 metric (4 to 14 mm) standard sockets
 - 10 fractional (3/16 to 9/16") and 11 metric (4 to 14 mm) deep sockets
 - 20 assorted 1/4" hex bits with bit holder
 - 6 ratchet/socket accessories
 - 1 quick release ratchet
- Components (3/8" Drive)
- 13 fractional (1/4 to 1") and 19 metric (6 to 24 mm) standard sockets
 - 11 fractional (3/8 to 1") and 15 metric (10 to 24 mm) deep sockets
 - 11 external Torx® sockets (E4 to E20)
 - 2 spark plug sockets (5/8, 13/16")
 - 3 metric hex socket drivers (7, 8, 10 mm)
 - 4 tamper resistant Torx socket drivers (T40, T45, T50, T55)
 - 5 ratchet/socket accessories
 - 1 quick release ratchet
 - BLPGSSC155PB storage case

BLPGSS3885 General Service Set.

Components (3/8" Drive):

- 13 fractional (1/4 to 1") and 14 metric (6 to 19 mm) standard sockets
- 13 fractional (1/4 to 1") and 14 metric (6 to 19 mm) deep sockets
- 11 external Torx sockets (E4 to E20)
- 1 Phillips socket drivers (#3 and #4)
- 2 Pozidriv® socket drivers (#3 and #4)
- 8 tamper resistant Torx socket drivers (T10 to T45)
- 2 spark plug sockets (5/8, 13/16")
- 6 ratchet/socket accessories
- 1 ratchet
- BLPGSS3885PB storage case

BLPGSS3849 General Service Set.

Components (3/8" Drive):

- 8 fractional (5/16 to 3/4") and 14 metric (6 to 19 mm) standard 6 point sockets
- 8 fractional (5/16 to 3/4") and 13 metric (7 to 19 mm) deep 12 point sockets
- 2 extensions (3 and 6")
- 1 universal joint
- 1 3/8 to 1/4" adaptor
- 1 1/4 to 3/8" adaptor
- 1 ratchet
- BLPGSS3849PB storage case



BLPGSS3885

BLPGSS3849



WARNING



- Do not use chrome or industrial finish hand tools with impact drivers
- Read complete safety precaution information on pages W1 to W4

GENERAL SERVICE SETS

3/8" Drive (Blue-Point®)



BLPPTSS3822



BPRFPT10



BLPPEXT3



BLPPTA3438



BLPPTSM10

Pass Thru Socket Set

Size, inches (mm)	Stock No.	External Hex, inches	Length, inches
3/8	BLPPTS38	3/4	1 7/16
7/16	BLPPTS716	3/4	1 7/16
1/2	BLPPTS12	3/4	1 7/16
9/16	BLPPTS916	3/4	1 7/16
5/8	BLPPTS58	3/4	1 7/16
11/16	BLPPTS1116	3/4	1 7/16
3/4	BLPPTS34	3/4	1 7/16
(8)	BLPPTSM8	3/4	1 7/16
(9)	BLPPTSM9	3/4	1 7/16
(10)	BLPPTSM10	3/4	1 7/16
(11)	BLPPTSM11	3/4	1 7/16
(12)	BLPPTSM12	3/4	1 7/16
(13)	BLPPTSM13	3/4	1 7/16
(14)	BLPPTSM14	3/4	1 7/16
(15)	BLPPTSM15	3/4	1 7/16
(16)	BLPPTSM16	3/4	1 7/16
(17)	BLPPTSM17	3/4	1 7/16
(18)	BLPPTSM18	3/4	1 7/16
(19)	BLPPTSM19	3/4	1 7/16

BLPPTSS3822 Pass Thru Socket Set. Includes: BLPPTS38 through BLPPTS34 (3/8 to 3/4") sockets, BLPPTSM8 through BLPPTSM19 (8 to 19 mm) metric sockets, BLPPTA3438 square drive adaptor, BLPPEXT3 extension and BPRFPT10 ratchet (22 pcs) in storage case.

BPRFPT10 Ratchet.

- Flex head has 7 locking positions
- 3/4" hex drive, 10" long

BLPPEXT3 Extension.

- 3" extension

BLPPTA3438 Adaptor.

- 3/8" square drive adaptor, 1 1/4" long


BLPPTSS3822PB Storage Case.

1/2" Drive



317MSPC

317MSPC Fractional Chrome Set in a Storage Tray.
17 pieces, Includes:


	6 Point Shallow Sockets
3/8	TW121A
7/16	TW141A
1/2	TW161A
9/16	TW181A
5/8	TW201
11/16	TW221
3/4	TW241
13/16	TW261
7/8	TW281
15/16	TW301
1	TW321
1 1/16	TW341
1 1/8	TW361

Also Includes:	S80A	Sealed Ratchet
	SXK5	5" Knurled Extension
	SXK11	11" Knurled Extension
	SN18B	18" Breaker Bar



317AMMPC

317AMMPC Metric 6 Point General Service Set.
17 pieces, Includes:

	6 Point Shallow Sockets
12	TWM12A
13	TWM13A
14	TWM14A
15	TWM15A
16	TWM16
17	TWM17
18	TWM18
19	TWM19
20	TWM20
21	TWM21
22	TWM22
23	TWM23
24	TWM24

Also Includes:	S80A	Sealed Ratchet
	SXK5	5" Knurled Extension
	SXK11	11" Knurled Extension
	SN18B	18" Breaker Bar



GENERAL SERVICE SETS

1/2" Drive



344AMB




344AMB Fractional Chrome General Service Set.
44 pieces, Includes:

	12 Point Shallow Sockets		12 Point Deep Sockets
3/8	SW121A	1/2	S161A
7/16	SW141A	9/16	S181A
1/2	SW161A	5/8	S201
9/16	SW181A	11/16	S221
5/8	SW201	3/4	S241
11/16	SW221	13/16	S261
3/4	SW241	7/8	S281
13/16	SW261	15/16	S301
7/8	SW281	1	S321
15/16	SW301	1 1/16	S341
1	SW321	1 1/8	S361
1 1/16	SW341		
1 1/8	SW361		
1 3/16	SW381		
1 1/4	SW401		
1 5/16	SW421		



360MB


360MB Fractional Chrome General Service Set
in KRA21G Metal Box.
59 pieces, Includes:

	12 Point Shallow Sockets		6 Point Deep Sockets		12 Point Deep Sockets
3/8	SW121A	1/2	TS161A	1/2	S161A
7/16	SW141A	9/16	TS181A	9/16	S181A
1/2	SW161A	5/8	TS201	5/8	S201
9/16	SW181A	11/16	TS221	11/16	S221
5/8	SW201	3/4	TS241	3/4	S241
11/16	SW221	13/16	TS261	13/16	S261
3/4	SW241	7/8	TS281	7/8	S281
13/16	SW261	15/16	TS301	15/16	S301
7/8	SW281	1	TS321	1	S321
15/16	SW301	1 1/16	TS341	1 1/16	S341
1	SW321	1 1/8	TS361		
1 1/16	SW341				
1 1/8	SW361				
1 3/16	SW381				
1 1/4	SW401				
1 5/16	SW421				

6 Point Universal Sockets Set	307SUY	9/16 to 15/16" (7 pcs)
Also Includes:	LRS70A	1 19/32" Ratchet Spinner
	S4	18 7/8" Speeder
	S8	2 11/16" Universal Joint
	S12L	12" Sliding T-Handle
	S77A	Ratcheting Adaptor
	S80A	Sealed Ratchet
	SN18B	18" Breaker Bar
	SX2	2" Extension
	SXK5	5" Knurled Extension
	SXK11	11" Knurled Extension

6 Point Universal Sockets Set	307SUY	9/16 to 15/16" (7 pcs)
Also Includes:	A17	15/16" Blade Width Drag Link Socket
	S12L	12" Sliding T-Handle
	S77A	Ratcheting Adaptor
	SN18B	18" Breaker Bar
	SX2	2" Extension
	SXK3	3 1/2" Extension
	SXK5	5" Knurled Extension
	SXK11	11" Knurled Extension
	A80A	1/4 to 1/2" Capacity Stud Remover
	LRS70A	1 19/32" Ratchet Spinner
	S80A	Sealed Ratchet
	SL80A	Long Handle Sealed Ratchet
	S4	18 7/8" Speeder
	S8	2 11/16" Universal Joint

345MMB Chrome Metric General Service Set.
45 pieces, Includes:

	12 Point Socket Sets	
(23 pcs) (10 to 32 mm)	323SWMY	Metric 12 point Shallow Socket Set
(13 pcs) (12 to 24 mm)	313SMYA	Metric 12 point Deep Socket Set

Also Includes:	S4	18 7/8" Speeder
	S8	2 11/16" Universal Joint
	S12L	12" Sliding T-Handle
	S77A	Ratcheting Adaptor
	S80A	Sealed Ratchet
	SN18B	18" Breaker Bar
	SXK3	3 1/2" Extension
	SXK5	5" Extension
	SXK11	11" Extension



345MMB



WARNING



- Do not use chrome or industrial finish hand tools with impact drivers
- Read complete safety precaution information on pages W1 to W4

GENERAL SERVICE SETS

1/2" Drive (Blue-Point®)



BLPGSS1233

BLPGSS1233 1/2" Drive General Service Set.

Set Components:

- 15 fractional (3/8 to 1 1/4") and 12 metric (12 to 24 mm) standard sockets
- 1 breaker bar
- 1 universal joint
- 1 quick release ratchet
- 3 extensions (3, 6 and 10")


3/4" Drive



434HDB

434HDB 12 Point Fractional General Service Set (Tools with Metal Box).

35 Tools, Includes:

	12 Point Shallow Sockets
3/4	LDH242
13/16	LDH262
7/8	LDH282
15/16	LDH302
31/32	LDH312
1	LDH322
1 1/16	LDH342
1 1/8	LDH362
1 3/16	LDH382
1 1/4	LDH402
5/16	LDH422A
1 3/8	LDH442
1 7/16	LDH462
1 1/2	LDH482
1 9/16	LDH502
1 5/8	LDH522
1 11/16	LDH542
1 3/4	LDH562
1 13/16	LDH582
1 7/8	LDH602
2	LDH642
2 1/16	LDH662
2 1/8	LDH682
2 3/16	LDH702
2 1/4	LDH722
2 3/8	LDH762


Also Includes:		
	L32	3" Extension
	L62	8" Extension
	L122	16" Extension
	L52B	Sliding Head
	L872	Ratchet Head
	L82A	Universal Joint
	L8112A	Breaker Bar Head
	L672B	Ratchet Adaptor
	L872H	19 1/4" Handle
	KRA226B	Metal Box



414AHD

414AHD 12 Point Fractional General Service Set (Tools with Storage Tray).

15 Tools, Includes:

	12 Point Shallow Sockets
1 1/16	LDH342
1 1/8	LDH362
1 1/4	LDH402
1 5/16	LDH422A
1 3/8	LDH442
1 7/16	LDH462
1 1/2	LDH482
1 5/8	LDH522
1 3/4	LDH562
1 7/8	LDH602

Also Includes:		
	L62	8" Extension
	L122	16" Extension
	L872	Ratchet Head
	L872RJ	19 1/4" Handle
	L8112A	Breaker Bar Head

The Finest Wrenches. Period.

Snap-on® wrenches are manufactured with special alloy steel, precision forged and heat treated for optimum strength and durability. The Flank Drive® box-end wrenching system grips the fastener flats and provides up to 15-20% more turning power. Nickel chrome finishing helps protect against corrosion and makes it easy to wipe clean. Longer length handles provide increased leverage and better access to those hard to reach areas.

Flank Drive® Plus

The Flank Drive® Plus teeth design provides more flat-to-flat contact preventing slipping and rounding of the fastener and delivering up to 62% more turning power than conventional open end wrenches.

15° wrench-end offset orientation provides easy access in restricted areas.

Standard Box End

The box end is rotated 7.5° away from the handle so the wrench can be flipped to get a new grip in tight situations.

Set at 15° angle for knuckle clearance and increased access in any space.

Ratcheting Box End

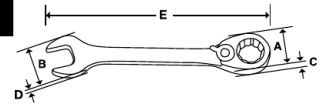
Up to 80 gear teeth lets the wrench move easier with less exertion.

Reversible, dual-pawl ratcheting box end yields smoother operation with greater strength.



WRENCHES

Flank Drive® Plus Combination Reversible Ratcheting Box/Open End



- Open end features *Flank Drive* Plus wrenching configurations that deliver up to 62% more turning power than conventional wrenches
- Longer overall length increases leverage to let the wrench do the work

- 12 point box end features the *Flank Drive* wrenching configuration, the proven design for turning fasteners
- Up to 80 gear teeth require minimal movement in tight areas
- Low profile easy action reverse lever won't get in your way



SOEXRM710



SOEXR707

15° Standard Handle, mm

Set Contains:

mm	12	A	B	C	D	E	Reverse Lever Repair Kit	12
8	SOEXRM8	17.8	17.0	7.1	4.3	149	RKW1	
9	SOEXRM9	19.6	19.2	7.9	4.7	164	RKW2	
10	SOEXRM10	21.5	21.1	8.3	5.1	179	RKW3	•
11	SOEXRM11	22.0	23.4	8.6	5.5	194	RKW3	•
12	SOEXRM12	23.5	25.1	9.3	5.9	207	RKW4	•
13	SOEXRM13	25.0	27.2	10.2	6.3	221	RKW5	•
14	SOEXRM14	27.0	29.2	10.2	6.7	235	RKW6	•
15	SOEXRM15	28.5	31.2	11.1	7.1	249	RKW7	•
16	SOEXRM16	30.5	33.0	11.1	7.4	261	RKW8	•
17	SOEXRM17	32.0	35.1	12.0	7.8	277	RKW9	•
18	SOEXRM18	34.5	37.1	12.0	8.2	291	RKW10	•
19	SOEXRM19	36.5	39.4	12.9	8.6	305	RKW11	•

ASME® B107.100

Set includes storage tray

15° Standard Handle, inches

Set Contains:

11	12	A	B	C	D	E	Reverse Lever Repair Kit	12
3/8	SOEXR12	27/32	27/32	5/16	3/16	7	RKW3	•
7/16	SOEXR14	7/8	29/32	11/32	7/32	7 5/8	RKW3	•
1/2	SOEXR16	31/32	1 1/16	13/32	1/4	8 11/16	RKW5	•
9/16	SOEXR18	1 1/16	1 5/32	13/32	1/4	9 1/4	RKW6	•
5/8	SOEXR20	1 3/16	1 5/16	7/16	9/32	10 1/4	RKW8	•
11/16	SOEXR22	1 1/4	1 3/8	15/32	5/16	10 7/8	RKW9	•
3/4	SOEXR24	1 7/16	1 9/16	1/2	11/32	12	RKW11	•

ASME B107.100

Set includes storage tray

Flank Drive Combination Ratcheting Box/Open End



OEXRM710



OEXR707

0° Standard Handle, mm

Set Contains:

mm	12	A	B	C	D	E	12
8	OEXRM8	17.8	17.0	7.1	4.3	147	
9	OEXRM9	19.6	19.2	8.0	4.7	159	
10	OEXRM10	21.5	21.1	8.4	5.1	171	•
11	OEXRM11	22.0	23.4	8.7	5.6	183	•
12	OEXRM12	23.5	25.1	9.3	5.9	195	•
13	OEXRM13	25.0	27.2	10.2	6.4	207	•
14	OEXRM14	27.0	29.2	10.2	6.7	219	•
15	OEXRM15	28.5	31.2	11.1	7.1	231	•
16	OEXRM16	30.5	33.0	11.1	7.4	243	•
17	OEXRM17	32.0	35.1	12.0	7.8	255	•
18	OEXRM18	34.5	37.1	12.0	8.2	267	•
19	OEXRM19	36.5	39.4	12.9	8.7	279	•

ASME B107.100

Set includes storage tray

0° Standard Handle, inches

Set Contains:

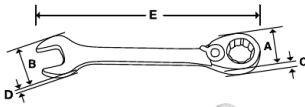
11	12	A	B	C	D	E	12
3/8	OEXR12	27/32	27/32	5/16	3/16	6 3/4	•
7/16	OEXR14	7/8	29/32	11/32	7/32	7 3/16	•
1/2	OEXR16	31/32	1 1/16	13/32	1/4	8 3/16	•
9/16	OEXR18	1 1/16	1 5/32	13/32	1/4	8 5/8	•
5/8	OEXR20	1 3/16	1 5/16	7/16	9/32	5 9/16	•
11/16	OEXR22	1 7/32	1 3/8	15/32	5/16	10 1/16	•
3/4	OEXR24	1 15/32	1 9/16	1/2	11/32	11	•

ASME B107.100

Set includes storage tray

WRENCHES

Flank Drive® Combination Ratcheting Box/Open End



OXIRM707

Set Contains:

OXIRM707
OXIRM705

Short Handle, mm

mm	12	A	B	C	D	E	12	12
8	OXIRM8	17.8	17.0	7.1	4.3	88.7	•	
9	OXIRM9	19.6	19.2	8.0	4.8	92.7	•	
10	OXIRM10	21.5	21.1	8.4	5.1	97.0	•	
11	OXIRM11	22.0	23.4	8.7	5.6	101.1	•	
12	OXIRM12	23.5	25.1	9.3	5.9	105.4	•	
13	OXIRM13	25.0	27.2	10.2	6.4	109.5	•	
14	OXIRM14	27.0	29.2	10.2	6.7	113.8	•	
15	OXIRM15	28.5	31.2	11.1	7.1	118.1		•
16	OXIRM16	30.5	33.0	11.1	7.4	122.2		•
17	OXIRM17	32.0	35.1	12.0	7.8	126.5		•
18	OXIRM18	34.5	37.1	12.0	8.2	130.6		•
19	OXIRM19	36.5	39.4	12.9	8.7	135.4		•

ASME® B107.100

Sets include storage tray



OXIR707

Set Contains:

OXIR707

Short Handle, inches

in	12	A	B	C	D	E	12
3/8	OXIR12	27/32	27/32	5/16	3/16	3 27/32	•
7/16	OXIR14	7/8	29/32	11/32	7/32	3 31/32	•
1/2	OXIR16	31/32	1 1/16	13/32	1/4	4 5/16	•
9/16	OXIR18	1 1/16	1 5/32	13/32	1/4	4 15/32	•
5/8	OXIR20	1 3/16	1 5/16	15/32	9/32	4 13/16	•
11/16	OXIR22	1 7/32	1 3/8	15/32	5/16	4 31/32	•
3/4	OXIR24	1 15/32	1 9/16	1/2	11/32	5 11/32	•

ASME B107.100

Set includes storage tray

Ratcheting Box/Speed Open End

Reversible Ratcheting Box/Speed Open End, mm

- Patented open end speed wrenching configuration delivers more speed than conventional wrenches
- Speed open end provides quick, ratchet like action
- *Flank Drive* wrenching system on box end provides up to 15 to 20% more turning power with less risk of tool or fastener damage
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Up to 80 gear teeth for minimal movement in tight areas
- Box ends are offset 15° for clearance
- Sized for optimum comfort and balance
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean

mm	12	A	B	C	D	E	Gear Teeth	12
10	SRXRM10	21.5	19.1	8.3	5.1	179	72	•
11	SRXRM11	22.0	21.0	8.6	5.6	194	72	•
12	SRXRM12	23.5	22.9	9.3	5.9	207	80	•
13	SRXRM13	25.0	24.8	10.2	6.4	221	80	•
14	SRXRM14	27.0	26.7	10.2	6.6	235	80	•
15	SRXRM15	28.5	28.6	11.1	7.1	249	80	•
16	SRXRM16	30.5	30.5	11.1	7.4	261	80	•
17	SRXRM17	32.0	32.4	12.0	7.9	277	80	•
18	SRXRM18	34.5	34.3	12.0	8.2	291	80	•
19	SRXRM19	36.5	36.2	12.9	8.6	305	80	•

ASME B107.100

Set includes storage tray

Set Contains:

SRXRM710



SRXRM710

High Performance Ratcheting Box

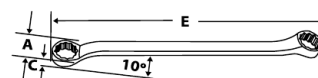
Ratcheting Box, mm

mm	12	A	C	E	12
10	XDHRM10	14.4	6.3	256.5	•
13	XDHRM13	18.7	7.5	295.4	•
15	XDHRM15	21.5	8.8	349.3	•
10	XDHRM17	23.7	9.0-10.2	375.2	•

Set includes kit bag

Set Contains:

XDHRM604



XDHRM604



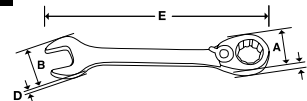
WARNING



- Do not use cheater bars on handles
- Read safety precautions on pages W1 to W4

WRENCHES

Combination Reversible Ratcheting Box/Open End (Blue-Point®)



BOERM712



BOER708

Standard Handle, 15° Offset, mm

mm	12	A	B	C	D	E	Set Contains:	
							BOERM712	BOERM704
6	BOERM6	16.3	16.3	6.6	3.6	114.3		
7	BOERM7	16.5	16.4	6.6	3.9	125.0		
8	BOERM8	17.8	17.7	6.5	4.0	135.0	•	
9	BOERM9	19.5	20.0	7.4	4.0	150.0	•	
10	BOERM10	21.5	21.9	8.0	5.0	160.0	•	
11	BOERM11	22.0	23.9	8.5	5.5	170.0	•	
12	BOERM12	23.5	25.0	9.0	5.5	175.0	•	
13	BOERM13	25.0	25.9	10.0	6.3	180.0	•	
14	BOERM14	27.0	29.9	10.0	6.5	190.0	•	
15	BOERM15	28.5	31.1	11.0	7.0	200.0	•	
16	BOERM16	30.5	33.6	11.0	7.0	210.0	•	
17	BOERM17	32.0	36.5	12.0	7.0	230.0	•	
18	BOERM18	34.5	38.5	12.0	8.0	240.0	•	
19	BOERM19	36.5	38.7	12.9	8.7	250.0	•	
21	BOERM21	39.4	43.2	13.7	9.4	266.7		•
22	BOERM22	41.7	45.7	14.5	9.4	285.8		•
24	BOERM24	46.5	49.5	15.5	11.2	304.8		•
25	BOERM25	47.2	52.8	15.5	11.2	327.2		•

ASME® B107.100

Sets include storage tray

Standard Handle, 15° Offset, inches

In	12	A	B	C	D	E	Set Contains:	
							BOER708	BOER704
1/4	BOER8	21/32	21/32	1/4	5/32	4 1/2		
5/16	BOER10	11/16	11/16	1/4	5/32	5 5/16	•	
3/8	BOER12	27/32	7/8	5/16	3/16	6 5/16	•	
7/16	BOER14	7/8	15/16	11/32	7/32	6 11/16	•	
1/2	BOER16	31/32	1 1/32	13/32	1/4	7 1/16	•	
9/16	BOER18	1 1/16	1 3/16	13/32	1/4	7 1/2	•	
5/8	BOER20	1 3/16	1 5/16	7/16	9/32	8 1/4	•	
11/16	BOER22	1 1/4	1 7/16	15/32	9/32	9 1/16	•	
3/4	BOER24	1 7/16	1 17/32	1/2	11/32	9 13/16	•	
13/16	BOER26	1 9/16	1 23/32	17/32	3/8	10 1/2		•
7/8	BOER28	1 21/32	1 27/32	9/16	3/8	11 1/4		•
15/16	BOER30	1 27/32	1 31/32	5/8	7/16	12		•
1	BOER32	1 7/8	2 3/32	5/8	7/16	12 7/8		•

ASME B107.100

Sets include storage tray

Ratcheting Wrench Adaptors

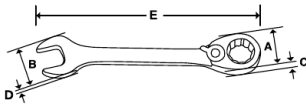


RWA404

- Converts ratcheting wrench into a ratchet
- Use with reversible ratcheting box wrenches such as the SOEXRM, BOERM, BOERMF and BOERMS series
- Can be used with the combination ratcheting box wrenches such as the OEXRM and OXIRM series
- Use reverse lever on wrench to secure or remove adaptor from wrench
- Push button on adaptor to release socket

Ratcheting Wrench Adaptors

Stock No.	Configuration	Use with Ratcheting Wrench Size	Set Contains:	
			RWA404	RWA404FR
RWA1	1/4" drive	13mm	•	
RWA2	3/8" drive	16mm	•	
RWA3	1/2" drive	19mm	•	
RWA4	1/4" hex	13mm	•	
RWA1FR	1/4" drive	1/2"		•
RWA2FR	3/8" drive	5/8"		•
RWA3FR	1/2" drive	3/4"		•
RWA4FR	1/4" hex	1/2"		•



Combination Ratcheting Box/Open End (Blue-Point®)

- Flex head pivots 90° in either direction to reach hard to get fasteners
- Reversible, dual pawl ratcheting box end yields smooth operation and maximum strength
- 4.5 (5 or smaller wrenches) tooth engagement; less movement to engage the next tooth
- Tough, durable nickel-chrome finish



BOERMF712A



BOERF708A

Flex Head/Standard, 15° Offset, mm

mm	12	Set Contains:						12
		A	B	C	D	E		
8	BOERMF8A	17.8	17.7	6.5	4.0	142	60	•
9	BOERMF9A	19.5	20.0	7.4	4.0	152	72	•
10	BOERMF10A	21.5	21.9	8.0	5.0	162	72	•
11	BOERMF11A	22.0	23.9	8.5	5.5	172	72	•
12	BOERMF12A	23.5	25.0	9.0	5.5	180	80	•
13	BOERMF13A	25.0	25.9	10.0	6.3	188	80	•
14	BOERMF14A	27.0	29.9	10.0	6.5	196	80	•
15	BOERMF15A	28.5	31.1	11.0	7.0	204	80	•
16	BOERMF16A	30.5	33.6	11.0	7.0	214	80	•
17	BOERMF17A	32.0	36.5	12.0	7.0	228	80	•
18	BOERMF18A	34.5	38.5	12.0	8.0	242	80	•
19	BOERMF19A	36.5	38.7	12.9	8.7	256	80	•

ASME® B107.100

Set includes storage tray

Flex Head/Standard, 15° Offset, inches

in	12	Set Contains:						12
		A	B	C	D	E		
5/16	BOERF10A	11/16	11/16	1/4	5/32	519/32	72	•
3/8	BOERF12A	27/32	7/8	5/16	3/16	63/8	72	•
7/16	BOERF14A	7/8	15/16	11/32	7/32	63/4	72	•
1/2	BOERF16A	31/32	1 1/32	13/32	1/4	713/32	80	•
9/16	BOERF18A	1 1/16	1 3/16	13/32	1/4	723/32	80	•
5/8	BOERF20A	1 3/16	1 5/16	7/16	9/32	87/16	80	•
11/16	BOERF22A	1 1/4	1 7/16	15/32	9/32	831/32	80	•
3/4	BOERF24A	1 7/16	1 17/32	1/2	11/32	101/16	80	•

ASME B107.100

Set includes storage tray

- Up to 80 gear teeth; less movement required to engage next tooth
- 12 point Flank Drive® wrenching system is ideal in tight quarters
- Small footprint with 0° offset unidirectional gear

- Low ratcheting torque is less likely to move loose fastener in wrong direction
- High quality steel ensures a better fit and yields a long lasting tool



BOERMS712



BOERS708



Short, 15° Offset, mm

mm	12	Set Contains:						12
		A	B	C	D	E		
8	BOERMS8	17.8	17.7	6.5	4.0	90	•	
9	BOERMS9	19.5	20.0	7.4	4.0	95	•	
10	BOERMS10	21.5	21.9	8.0	5.0	100	•	
11	BOERMS11	22.0	23.9	8.5	5.5	105	•	
12	BOERMS12	23.5	25.0	9.0	5.5	110	•	
13	BOERMS13	25.0	25.9	10.0	6.3	115	•	
14	BOERMS14	27.0	29.9	10.0	6.5	120	•	
15	BOERMS15	28.5	31.1	11.0	7.0	125	•	
16	BOERMS16	30.5	33.6	11.0	7.0	128	•	
17	BOERMS17	32.0	36.5	12.0	7.0	132	•	
18	BOERMS18	34.5	38.5	12.0	8.0	138	•	
19	BOERMS19	36.5	38.7	12.9	8.7	142	•	

ASME B107.100

Set includes storage tray

Short, 15° Offset, inches

in	12	Set Contains:						12
		A	B	C	D	E		
5/16	BOERS10	11/16	11/16	1/4	5/32	39/16	•	
3/8	BOERS12	27/32	7/8	5/16	3/16	315/16	•	
7/16	BOERS14	7/8	15/16	11/32	7/32	41/8	•	
1/2	BOERS16	31/32	1 1/32	13/32	1/4	41/2	•	
9/16	BOERS18	1 1/16	1 3/16	13/32	1/4	43/4	•	
5/8	BOERS20	1 3/16	1 5/16	7/16	9/32	51/16	•	
11/16	BOERS22	1 1/4	1 7/16	15/32	9/32	53/16	•	
3/4	BOERS24	1 7/16	1 17/32	1/2	11/32	59/16	•	

ASME B107.100

Set includes storage tray



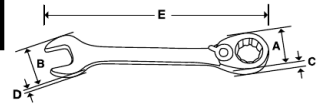
WARNING



- Do not use cheater bars on handles
- Read safety precautions on pages W1 to W4

WRENCHES

Flex Head Ratcheting Box/Open End (Blue-Point®)



BOERMSF712



BOERSF708

Flex Head Ratcheting Box/ Open End, Stubby, 15° Offset, mm

Set Contains:
BOERMSF712

mm	12	A	B	C	D	E	12
8	BOERMSF8	17.8	17.7	6.5	4.0	94	•
9	BOERMSF9	19.5	20.0	7.4	4.0	98	•
10	BOERMSF10	21.5	21.9	8	5	103	•
11	BOERMSF11	22	23.9	8.5	5.5	108	•
12	BOERMSF12	23.5	25	9	5.5	111	•
13	BOERMSF13	25	25.9	10	6.3	115	•
14	BOERMSF14	27	29.9	10	6.5	120	•
15	BOERMSF15	28.5	31.1	11	7	124	•
16	BOERMSF16	30.5	33.6	11	7	128	•
17	BOERMSF17	32	36.5	12	7	133	•
18	BOERMSF18	34.5	38.5	12	8	140	•
19	BOERMSF19	36.5	38.7	12.9	8.7	147	•

ASME® B107.100

Set includes kit bag

Flex Head Ratcheting Box/ Open End, Stubby, 15° Offset, inches

Set Contains:
BOERSF708

11	12	A	B	C	D	E	12
5/16	BOERSF10	11/16	11/16	1/4	5/32	3 11/16	•
3/8	BOERSF12	27/32	7/8	5/16	3/16	4 1/16	•
7/16	BOERSF14	7/8	15/16	11/32	7/32	4 1/4	•
1/2	BOERSF16	31/32	1 1/32	13/32	1/4	4 17/32	•
9/16	BOERSF18	1 1/16	1 3/16	13/32	1/4	4 23/32	•
5/8	BOERSF20	1 3/16	1 5/16	7/16	9/32	5 1/32	•
11/16	BOERSF22	1 1/4	1 7/16	15/32	9/32	5 1/4	•
3/4	BOERSF24	1 7/16	1 17/32	1/2	11/32	5 25/32	•

ASME B107.100

Set includes kit bag

Locking Flex Head Ratcheting Box (Blue-Point)



BOERMFLCG712



BOERFLCG708

Locking Flex Head Ratcheting Box/ Cushion Grip, mm

Set Contains:
BOERMFLCG712

mm	12	A	B	C	D	12
8	BOERMFLCG8	17.8	6.55	32	228	•
9	BOERMFLCG9	19.5	7.45	34	229	•
10	BOERMFLCG10	21.5	8.05	38	233	•
11	BOERMFLCG11	22	8.55	40	235	•
12	BOERMFLCG12	23.5	9.05	42	285	•
13	BOERMFLCG13	25	10.05	45	287	•
14	BOERMFLCG14	27	10.05	48	289	•
15	BOERMFLCG15	28.5	11.05	52	293	•
16	BOERMFLCG16	30.5	11.05	54	347	•
17	BOERMFLCG17	32	12.05	56	348	•
18	BOERMFLCG18	34.5	12.05	60	352	•
19	BOERMFLCG19	36.5	12.95	64	354	•

ASME B107.100

Set includes kit bag

Locking Flex Head Ratcheting Box/ Cushion Grip, inches

Set Contains:
BOERFLCG708

11	12	A	B	C	D	12
5/16	BOERFLCG10	23/32	1/4	1 1/4	9	•
3/8	BOERFLCG12	27/32	5/16	1 1/2	9 1/4	•
7/16	BOERFLCG14	7/8	11/32	1 9/16	9 19/32	•
1/2	BOERFLCG16	31/32	13/32	1 25/32	11 9/32	•
9/16	BOERFLCG18	1 1/16	13/32	1 29/32	11 3/8	•
5/8	BOERFLCG20	1 7/32	7/16	2 1/8	13 21/32	•
11/16	BOERFLCG22	1 1/4	15/32	2 7/32	13 23/32	•
3/4	BOERFLCG24	1 7/16	1/2	2 17/32	13 15/16	•

ASME B107.100

Set includes kit bag

Flank Drive® Plus Combination



Snap-on® *Flank Drive Plus* combination wrenches exceed the limits of any other open end design. The open end features a series of flutes or notches that grip a fastener away from its corners much like our box ends do.

Force is directed away from the weaker corners of the nut and directed to the stronger flats. You can actually see the grip. In fact, on some fasteners that you don't want marked, you should use our standard wrench.

Standard Length, mm

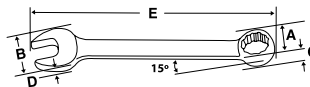
mm	Set Contains:						SOEXM710		SOEXM707	
	12	A	B	C	D	E	12	12		
7	SOEXM7	11	15	5	4	135				
8	SOEXM8	13	17	6	4	146				
9	SOEXM9	14	19	6	5	159				
10	SOEXM10	15	21	7	5	171	•	•		
11	SOEXM11	17	23	8	6	184	•	•		
12	SOEXM12	18	25	8	6	195	•	•		
13	SOEXM13	20	27	9	6	207	•	•		
14	SOEXM14	21	29	9	7	219	•	•		
15	SOEXM15	22	31	10	7	231	•	•		
16	SOEXM16	24	33	10	7	242	•	•		
17	SOEXM17	25	35	11	8	255	•	•		
18	SOEXM18	27	37	12	8	267	•			
19	SOEXM19	28	39	12	9	279	•			
20	SOEXM20	30	41	13	9	292				
21	SOEXM21	31	43	13	9	304				
22	SOEXM22	33	46	14	10	318				
23	SOEXM23	34	47	14	10	327				
24	SOEXM24	35	49	15	11	337				
25	SOEXM25	37	52	16	11	356				

ASME® B107.100

Sets include storage tray



SOEXM710



Selection, convenience and quality. *Flank Drive Plus* combination wrenches are available in many different styles and sizes. Just like all *Snap-on* wrenches, they are sized for optimum comfort and balance in your hand. Tough, durable, nickel-chrome plating produces a mirror like finish, that helps protect against corrosion and makes it easy to wipe the wrenches clean.

Standard Length, inches

in	Set Contains:						SOEX710		SOEX707	
	12	A	B	C	D	E	12	12		
1/4	SOEX8	13/32	17/32	3/16	5/32	5				
5/16	SOEX10	1/2	21/32	7/32	5/32	5 3/4	•			
11/32	SOEX11	17/32	23/32	1/4	3/16	6 1/8	•			
3/8	SOEX12	19/32	25/32	1/4	3/16	6 1/2	•	•		
7/16	SOEX14	21/32	29/32	7/32	7/32	7 1/4	•	•		
1/2	SOEX16	3/4	1 1/16	11/32	1/4	8	•	•		
9/16	SOEX18	27/32	1 5/32	3/8	9/32	8 3/4	•	•		
5/8	SOEX20	15/16	1 5/16	13/32	9/32	9 1/2	•	•		
11/16	SOEX22	1 1/32	1 13/32	7/16	5/16	10 1/4	•	•		
3/4	SOEX24	1 1/8	1 9/16	15/32	11/32	11	•	•		
13/16	SOEX26	1 3/16	1 21/32	17/32	3/8	11 3/4	•			
7/8	SOEX28	1 9/32	1 13/16	9/16	3/8	12 1/2				
15/16	SOEX30	1 3/8	1 29/32	19/32	13/32	13 1/4				
1	SOEX32	1 15/32	2 1/32	5/8	7/16	14				
1 1/16	SOEX34	1 9/16	2 5/32	19/32	15/32	14 3/4				
1 1/8	SOEX36	1 5/8	2 5/16	11/16	15/32	15 17/32				
1 3/16	SOEX38	1 23/32	2 13/32	23/32	1/2	16 1/4				
1 1/4	SOEX40	1 13/16	2 9/16	3/4	17/32	17				
1 5/16	SOEX42	1 29/32	2 21/32	3/4	9/16	17 25/32				

ASME B107.100

Sets include storage tray



SOEX710



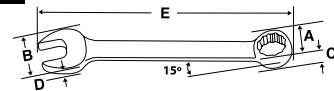
WARNING



- Do not use cheater bars on handles
- Read safety precautions on pages W1 to W4

WRENCHES

Flank Drive® Combination



OSHM713



OSHM707B



OEXM707B



OEXM710B



OEXM713B



GOEXM715

Standard Length, mm

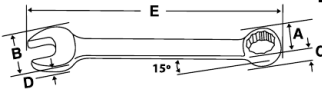
mm	Set Contains:			OSHM713		OSHM707B*		OEXM725		OEXM723K		OEXM713B*		OEXM710B*		GOEXM715	
	6	12	12	A	B	C	D	E	6	6	12	12	12	12	12	12	
7	OSHM70B			11	15	5	4	135	•								
8	OSHM80B	OEXM80B		13	17	6	4	146	•		•	•					
9	OSHM90B	OEXM90B		14	19	6	5	159	•		•	•					
10	OSHM100B	OEXM100B	GOEXM100B	15	21	7	5	171	•	•	•	•	•	•	•	•	•
11	OSHM110B	OEXM110B	GOEXM110B	17	23	8	6	184	•	•	•	•	•	•	•	•	•
12	OSHM120B	OEXM120B	GOEXM120B	18	25	8	6	195	•	•	•	•	•	•	•	•	•
13	OSHM130B	OEXM130B	GOEXM130B	20	27	9	6	207	•	•	•	•	•	•	•	•	•
14	OSHM140B	OEXM140B	GOEXM140B	21	29	9	7	219	•	•	•	•	•	•	•	•	•
15	OSHM150B	OEXM150B	GOEXM150B	22	31	10	7	231	•	•	•	•	•	•	•	•	•
16	OSHM160B	OEXM160B	GOEXM160B	24	33	10	7	242	•	•	•	•	•	•	•	•	•
17	OSHM170B	OEXM170B	GOEXM170B	25	35	11	8	255	•	•	•	•	•	•	•	•	•
18	OSHM180B	OEXM180B	GOEXM180B	27	37	12	8	267	•	•	•	•	•	•	•	•	•
19	OSHM190B	OEXM190B	GOEXM190B	28	39	12	9	279	•	•	•	•	•	•	•	•	•
20		OEXM200B	GOEXM200B	30	41	13	9	292			•	•	•				•
21		OEXM210B	GOEXM210B	31	43	13	9	304			•	•	•				•
22		OEXM220B	GOEXM220B	33	46	14	10	318			•	•	•				•
23		OEXM230B	GOEXM230B	34	47	14	10	327			•	•	•				•
24		OEXM240B	GOEXM240B	35	49	15	11	337			•	•	•				•
25		OEXM250B		37	52	16	11	356			•	•	•				
26		OEXM260B		38	53	16	11	363			•	•	•				
27		OEXM270B		39	55	17	12	375			•	•	•				
29		OEXM290B		42	58	18	12	394			•	•	•				
30		OEXM300B		44	61	19	13	413			•	•	•				
32		OEXM320B		46	65	19	14	432			•	•	•				
34		OEXM340B		48	68	19	14	452			•	•	•				
36		OEXM360B		53	74	22	15	489			•	•	•				
		Kit Bag															C2301A

ASME®/ANSI® B107.100

*Set includes storage tray

WRENCHES

Flank Drive® Combination



OSH711B



OEX714K



GOEX722K



OEX707B

Standard Length, inches

Standard Length	Set Contains:			Standard Length, inches					Wrench Sets													
	6	12	12	A	B	C	D	E	6	6	12	12	12	12	12	12	12	12	12	12	12	
1/4		OEX8B		13/32	17/32	3/16	5/32	5														
5/16	OSH10B	OEX10B	GOEX10B	1/2	21/32	7/32	5/32	5 3/4														
11/32	OSH11B	OEX11B		17/32	3/4	1/4	3/16	6 1/8														
3/8	OSH12B	OEX12B	GOEX12B	19/32	13/16	5/16	3/16	6 1/2														
7/16	OSH14B	OEX14B	GOEX14B	21/32	29/32	5/16	7/32	7 1/4														
1/2	OSH16B	OEX16B	GOEX16B	3/4	1 1/16	11/32	1/4	8														
9/16	OSH18B	OEX18B	GOEX18B	27/32	1 3/16	3/8	9/32	8 3/4														
5/8	OSH20B	OEX20B	GOEX20B	15/16	1 5/16	13/32	9/32	9 1/2														
11/16	OSH22B	OEX22B	GOEX22B	1 1/32	1 13/32	7/16	5/16	10 1/4														
3/4	OSH24B	OEX24B	GOEX24B	1 1/8	1 9/16	15/32	11/32	11														
13/16	OSH26B	OEX26B	GOEX26B	1 3/16	1 21/32	17/32	3/8	11 3/4														
7/8	OSH28B	OEX28B	GOEX28B	1 9/32	1 13/16	9/16	3/8	12 1/2														
15/16	OSH30B	OEX30B	GOEX30B	1 3/8	1 29/32	19/32	13/32	13 1/4														
1	OSH32B	OEX32B	GOEX32B	1 15/32	2 1/32	21/32	7/16	14														
1 1/16		OEX34B	GOEX34B	1 9/16	2 3/16	11/16	15/32	14 3/4														
1 1/8		OEX36B	GOEX36B	1 5/8	2 5/16	11/16	17/32	15 7/16														
1 3/16		OEX38B	GOEX38B	1 3/4	2 7/16	3/4	1/2	16 5/16														
1 1/4		OEX40B	GOEX40B	1 13/16	2 9/16	3/4	17/32	17 1/16														
1 5/16		OEX42B	GOEX42B	1 29/32	2 21/32	3/4	9/16	17 13/16														
1 3/8		OEX44B	GOEX44B	2	2 13/16	3/4	19/32	18 9/16														
1 7/16		OEX46B	GOEX46B	2 1/16	2 29/32	7/8	19/32	19 1/32														
1 1/2		OEX48B	GOEX48B	2 5/32	3 1/16	7/8	5/8	20 1/16														
1 9/16		OEX50B	GOEX50B	2 1/4	3 3/16	7/8	23/32	20 13/16														
1 5/8		OEX52B	GOEX52B	2 11/32	3 11/32	7/8	11/16	21 9/16														
1 11/16		OEX54A		2 7/16	3 13/32	7/8	23/32	22 9/32														
1 3/4		OEX56A	GOEX56A	2 17/32	3 9/16	1 1/32	23/32	22 7/8														
1 13/16		OEX58A	GOEX58A	2 5/8	3 21/32	1 1/32	3/4	23 15/32														
1 7/8		OEX60A	GOEX60A	2 11/32	3 13/16	1 1/32	25/32	24 1/32														
2		OEX64A	GOEX64A	2 7/8	4 1/16	1 1/32	27/32	25 1/4														
2 1/16			GOEX66A	2 31/32	4 5/32	1 1/8	27/32	25 25/32														
2 1/8			GOEX68A	3 1/16	4 5/16	1 5/32	7/8	26 3/8														
2 3/16			GOEX70A	3 1/8	4 13/32	1 1/8	7/8	26 31/32														
2 1/4			GOEX72A	3 7/32	4 9/16	1 1/8	15/16	27 9/16														
2 3/8			GOEX76A	3 13/32	4 13/16	1 9/32	31/32	28 3/4														
2 1/2			GOEX80A	3 19/32	5 1/16	1 9/32	1	29 29/32														
2 5/8			GOEX84A	4 7/8	6 5/8	1 5/8	1 3/16	32														
2 3/4			GOEX88A	4 7/8	6 5/8	1 5/8	1 3/16	32														
2 7/8			GOEX92A	4 7/8	6 5/8	1 5/8	1 3/16	32														
2 15/16			GOEX94A	4 7/8	6 5/8	1 5/8	1 3/16	32														
3			GOEX96A	4 7/8	6 5/8	1 5/8	1 3/16	32														
3 1/8			GOEX100A	4 7/8	6 5/8	1 5/8	1 3/16	32														
3 3/8			GOEX108A	4 7/8	6 5/8	1 5/8	1 3/16	32														
3 1/2			GOEX112A	4 7/8	6 5/8	1 5/8	1 3/16	32														

ASME® B107.100

OEX32B thru OEX52B are full polish chrome. OEX54A through OEX64A are satin finish chrome.

*Set includes storage tray

Kit Bag:

C2301A

C1401

C2200

C1401



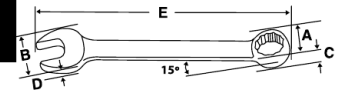
WARNING



- Do not use cheater bars on handles
- Read safety precautions on pages W1 to W4

WRENCHES

Flank Drive® Combination



OEXSM710B



GOEXM17B

Short Handle, mm

mm	Set Contains:							OEXSM719			OEXSM714K			OEXSM710B*										
	12	12	A	B	C	D	E	12	12	12	12	12	12	12	12	12								
6	OEXM6B	GOEXM6B	10	13	5	4	113	•	•															
7	OEXM7B	GOEXM7B	11	15	5	4	118	•	•															
8	OEXM8B	GOEXM8B	13	17	6	4	123	•	•															
9	OEXM9B	GOEXM9B	14	19	6	5	128	•	•															
10	OEXM10B	GOEXM10B	15	21	7	5	133	•	•	•														
11	OEXM11B	GOEXM11B	17	23	8	6	138	•	•	•														
12	OEXM12B	GOEXM12B	18	25	8	6	142	•	•	•														
13	OEXM13B	GOEXM13B	20	27	9	6	148	•	•	•														
14	OEXM14B	GOEXM14B	21	29	9	7	152	•	•	•														
15	OEXM15B	GOEXM15B	22	31	10	7	157	•	•	•														
16	OEXM16B	GOEXM16B	24	33	10	7	162	•	•	•														
17	OEXM17B	GOEXM17B	25	35	11	8	167	•	•	•														
18	OEXM18B	GOEXM18B	27	37	12	8	172	•	•	•														
19	OEXM19B	GOEXM19B	28	39	12	9	177	•	•	•														
20	OEXM20B		30	41	13	9	182	•																
21	OEXM21B		31	43	13	9	186	•																
22	OEXM22B		33	46	14	10	192	•																
23	OEXM23B		34	47	14	10	197	•																
24	OEXM24B		35	49	15	11	201	•																
Kit Bag																								C1402

ASME B107.100

*Set includes storage tray



OEXS715K



GOEX200B



OEXS709B

Short Handle, inches

in	Set Contains:							OEXS721			OEXS715K			OEXS709B*										
	12	12	A	B	C	D	E	12	12	12	12	12	12	12	12	12								
1/4	OEX080B	GOEX080B	13/32	17/32	3/16	5/32	4 17/32	•	•															
9/32	OEX090B		7/16	19/32	7/32	5/32	4 21/32	•	•															
5/16	OEX100B	GOEX100B	1/2	21/32	7/32	5/32	4 27/32	•	•	•														
11/32	OEX110B	GOEX110B	17/32	23/32	1/4	3/16	5	•	•	•														
3/8	OEX120B	GOEX120B	19/32	25/32	1/4	3/16	5 1/8	•	•	•														
7/16	OEX140B	GOEX140B	21/32	29/32	5/16	7/32	5 7/16	•	•	•														
1/2	OEX160B	GOEX160B	3/4	1 1/16	11/32	1/4	5 3/4	•	•	•														
9/16	OEX180B	GOEX180B	27/32	1 5/32	3/8	9/32	6 1/16	•	•	•														
5/5	OEX200B	GOEX200B	15/16	1 5/16	13/32	9/32	6 11/32	•	•	•														
11/16	OEX220B	GOEX220B	1 1/32	1 13/32	7/16	5/16	6 21/32	•	•	•														
3/4	OEX240B	GOEX240B	1 1/8	1 9/16	15/32	11/32	6 31/32	•	•	•														
13/16	OEX260B	GOEX260B	1 3/16	1 21/32	17/32	3/8	7 9/32	•	•	•														
7/8	OEX280B	GOEX280B	1 9/32	1 13/16	9/16	3/8	7 9/16	•	•	•														
15/16	OEX300B	GOEX300B	1 3/8	1 29/32	19/32	13/32	7 7/8	•	•	•														
1	OEX320B	GOEX320B	1 15/32	2 1/32	5/8	7/16	8 3/16	•	•	•														
1 1/16	OEX340B		1 9/16	2 5/32	21/32	15/32	8 17/32	•																
1 1/8	OEX360B		1 5/8	2 5/16	11/16	1/2	8 27/32	•																
1 3/16	OEX380B		1 23/32	2 13/32	23/32	1/2	9 1/8	•																
1 1/4	OEX400B		1 13/16	2 9/16	3/4	17/32	9 7/16	•																
1 5/16	OEX420B		1 29/32	2 21/32	3/4	9/16	9 3/4	•																
1 3/8	OEX440B		2	2 13/16	3/4	19/32	10 1/16	•																
Kit Bag																								C1505

ASME B107.100

*Set includes storage tray



OEXLM710B

Long Handle, mm

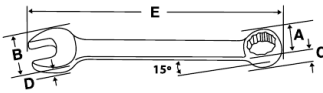
mm	Set Contains:						OEXLM710B	
	12	A	B	C	D	E	12	12
10	OEXLM10B	15	21	7	5	186	•	
11	OEXLM11B	17	23	8	6	203	•	
12	OEXLM12B	18	25	8	6	218	•	
13	OEXLM13B	20	27	9	6	234	•	
14	OEXLM14B	21	29	9	7	250	•	
15	OEXLM15B	22	31	10	7	266	•	
16	OEXLM16B	24	33	10	7	282	•	
17	OEXLM17B	25	35	11	8	298	•	
18	OEXLM18B	27	37	12	8	314	•	
19	OEXLM19B	28	39	12	9	330	•	

ASME B107.100

Set includes storage tray

WRENCHES

Flank Drive® Combination



Long Handle, inches

Set Contains:

OEXL707B

		A	B	C	D	E	
3/8	OEXL12B	19/32	25/32	1/4	3/16	7	•
7/16	OEXL14B	21/32	29/32	5/16	7/32	8	•
1/2	OEXL16B	3/4	1 1/16	11/32	1/4	9	•
9/16	OEXL18B	27/32	1 5/32	3/8	9/32	10	•
5/8	OEXL20B	15/16	1 5/16	13/32	9/32	11	•
11/16	OEXL22B	1 1/32	1 13/32	7/16	5/16	12	•
3/4	OEXL24B	1 1/8	1 9/16	15/32	11/32	13	•
13/16	OEXL26B	1 3/16	1 21/32	17/32	3/8	14	•
7/8	OEXL28B	1 9/32	1 13/16	9/16	3/8	15	•
15/16	OEXL30B	1 3/8	1 29/32	19/32	13/32	16	•
1	OEXL32B	1 15/32	2 1/32	5/8	7/16	17	•

ASME® B107.100

Set includes storage tray



OEXL707B

Midget, mm

Set Contains:

OXIM717

OXIM707SBK

OXIM708**

			A	B	C	D	E			
4	OXIM4SB*		7	10	4	3	72	6 point	•	
5	OXIM5SB*		8	12	4	3	76	6 point	•	
5.5	OXIM55SB		9	13	4	4	79	6 point	•	
6	OXIM6SB	OXIM6B	10	13	5	4	81	12 point	•	
7	OXIM7SB	OXIM7B	11	15	5	4	85	12 point	•	
8	OXIM8SB	OXIM8B	13	17	6	4	89	12 point	•	
9	OXIM9SB	OXIM9B	14	19	6	5	93	12 point	•	
10		OXIM10B	15	21	7	5	98	12 point		•
11		OXIM11B	17	23	8	6	102	12 point		•
12		OXIM12B	18	25	8	6	106	12 point		•
13		OXIM13B	20	27	9	6	110	12 point		•
14		OXIM14B	21	29	9	7	115	12 point		•
15		OXIM15B	22	31	10	7	119	12 point		•
16		OXIM16B	24	33	10	7	122	12 point		•
17		OXIM17B	25	35	11	8	127	12 point		•
18		OXIM18B	27	37	12	8	131	12 point		•
19		OXIM19B	28	39	12	9	136	12 point		•
	Kit Bag								C0700	

ASME B107.100

*Conventional Hex

**Set includes storage tray



OXIM707SBK

Midget, inches

Set Contains:

OXI709SBK

OXI707BK

OXI715

OXI706B**

			A	B	C	D	E			
1/8	OXI4SB*		7/32	11/32	1/8	1/8	2 11/16	•		6 point
5/32	OXI5SB*		9/32	13/32	5/32	1/8	2 27/32	•		6 point
3/16	OXI6SB*	OXI6B*	5/16	7/16	5/32	1/8	2 31/32	•	•	12 point
7/32	OXI7SB	OXI7B	3/8	1/2	3/16	1/8	3 3/32	•	•	12 point
1/4	OXI8SB	OXI8B	13/32	17/32	3/16	5/32	3 7/32	•	•	12 point
9/32	OXI9SB	OXI9B	7/16	19/32	7/32	5/32	3 11/32	•	•	12 point
5/16	OXI10SB	OXI10B	1/2	21/32	7/32	5/32	3 1/2	•	•	12 point
11/32	OXI11SB	OXI11B	17/32	23/32	1/4	3/16	3 5/8	•	•	12 point
3/8	OXI12SB	OXI12B	19/32	25/32	1/4	3/16	3 3/4	•	•	12 point
7/16		OXI14B	21/32	29/32	5/16	7/32	4 1/32			12 point •
1/2		OXI16B	3/4	1 1/16	11/32	1/4	4 9/32			12 point •
9/16		OXI18B	27/32	1 5/32	3/8	9/32	4 17/32			12 point •
5/8		OXI20B	15/16	1 5/16	13/32	9/32	4 13/16			12 point •
11/16		OXI22B	1 1/32	1 13/32	7/16	5/16	5 1/16			12 point •
3/4		OXI24B	1 1/8	1 9/16	15/32	11/32	5 11/32			12 point •
	Kit Bag							C0900A	C0700	

ASME B107.100

*Conventional Hex

**Set includes storage tray



OXI709SBK



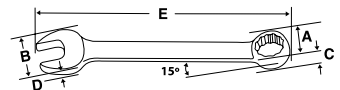
WARNING



- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

WRENCHES

British Standard



WOEX90B

Short Handle Combination

BS	Decimal Equiv., inches	12	A	B	C	D	E
3/16	.338	WOEX6B	25/32	19/32	3/16	1/4	5 3/32
1BA	.365	WOEX70B	25/32	19/32	3/16	1/4	5 1/8
OBA	.413	WOEX80B	29/32	21/32	7/32	5/16	5 13/32
1/4	.445	WOEX90B	29/32	21/32	7/32	5/16	5 15/32
5/16	.52	WOEX100B	1 5/32	27/32	9/32	3/8	6 1/32
3/8	.600	WOEX110B	1 5/16	15/16	9/32	13/32	6 11/32
7/16	.710	WOEX120B	1 5/16	1 1/32	5/16	7/16	6 23/32

Combination Wrenches (Blue-Point®)



BLPCWSM712

Standard, mm

mm	Stock No.	Length, mm	12
8	BLPCWM8	148	•
9	BLPCWM9	160	•
10	BLPCWM10	167	•
11	BLPCWM11	186	•
12	BLPCWM12	196	•
13	BLPCWM13	205	•
14	BLPCWM14	223	•
15	BLPCWM15	233	•
16	BLPCWM16	243	•
17	BLPCWM17	262	•
18	BLPCWM18	272	•
19	BLPCWM19	281	•

Set includes storage tray

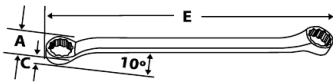


BLPCWS711

Standard, inches

in	Stock No.	Length, inches	12
1/4	BLPCW14	5 1/32	
5/16	BLPCW516	5 7/32	
3/8	BLPCW38	6 9/16	•
7/16	BLPCW716	7 11/32	•
1/2	BLPCW12	8 1/16	•
9/16	BLPCW916	8 25/32	•
5/8	BLPCW58	9 9/16	•
11/16	BLPCW1116	10 5/16	•
3/4	BLPCW34	11 1/16	•
13/16	BLPCW1316	11 27/32	•
7/8	BLPCW78	12 19/16	•
15/16	BLPCW1516	13 11/32	•
1	BLPCW1	14 3/32	•

Set includes storage tray



Midget, 10° Offset, inches

Set Contains:

XID604KA

	12	A	C	E	12
3/16 - 13/64	XID1213A	5/16 - 11/32	1/8 - 5/32	2 13/16	•
7/32 - 15/64	XID1415A	3/8 - 3/8	5/32 - 5/32	3 1/16	•
1/4 - 9/32	XID1618A	13/32 - 7/16	5/32 - 3/16	3 13/32	•
5/16 - 11/32	XID2022A	15/32 - 1/2	3/16 - 7/32	3 31/32	•
	Kit Bag				C0401

ASME® B107.100



XID604KA



Set Contains:

XLE605

	#	A	C	E	
E5 - E6	XLE56	9/32 - 5/16	5/32 - 3/16	6 13/32	•
E7 - E8	XLE78	11/32 - 3/8	7/32 - 7/32	7 7/32	•
E10 - E12	XLE1012A	15/32 - 17/32	1/4 - 5/16	8 7/8	•
E14 - E16	XLE1416	5/8 - 23/32	11/32 - 11/32	10 7/16	•
E18 - E20	XLE1820	13/16 - 7/8	13/32 - 7/16	12 3/8	•

ASME B107.100

Set includes storage tray



XLE605

Standard Length, 10° Offset, mm

Set Contains:

XBM605A

	6	12	A	C	E	12
8 - 10		XBM810A	12.3 - 15	6.7 - 7.7	185	
10 - 11		XBM1011A	15 - 16.4	7.7 - 8.3	202	•
10 - 12		XBM1012A	15 - 17.7	7.7 - 8.8	208	
11 - 13		XBM1113A	16.4 - 19.1	8.3 - 9.3	219	
12 - 14	XBM1214SA	XBM1214A	17.7 - 20.4	8.8 - 9.7	230	•
13 - 15	XBM1315SA	XBM1315A	19.1 - 21.8	9.3 - 10.2	241	•
14 - 17		XBM1417A	20.4 - 24.5	9.8 - 11.4	248	
16 - 18		XBM1618A	23.1 - 25.9	10.9 - 11.9	275	•
17 - 19		XBM1719A	24.5 - 27.2	11.4 - 12.3	286	•
18 - 21		XBM1821A	25.9 - 29.9	11.9 - 13.3	303	
22 - 24		XBM2224A	31.3 - 34	13.7 - 14.7	342	
27 - 30		XBM2730A	38.1 - 42.2	16 - 17.3	404	

ASME B107.100

Set includes storage tray



XBM605A

Standard Length, 10° Offset, inches

Set Contains:

XB605A

	12	A	C	E	12
3/8 - 7/16	XB1214A	9/16 - 21/32	5/16 - 11/32	7 19/32	•
7/16 - 1/2	XB1416A	21/32 - 3/4	5/16 - 11/32	7 15/16	
1/2 - 9/16	XB1618A	3/4 - 13/16	11/32 - 3/8	8 11/16	•
9/16 - 5/8	XB1820A	13/16 - 29/32	13/32 - 7/16	9 13/32	
5/8 - 11/16	XB2022A	29/32 - 1	7/16 - 15/32	10 5/32	•
11/16 - 3/4	XB2224A	1 - 1 1/16	15/32 - 1/2	10 15/16	
3/4 - 13/16	XB2426A	1 1/16 - 1 5/32	1/2 - 17/32	11 21/32	•
7/8 - 15/16	XB2830A	1 1/4 - 1 11/32	17/32 - 9/16	13 1/8	•
15/16 - 1	XB3032A	1 11/32 - 1 13/32	9/16 - 19/32	13 7/8	
1 - 1 1/16	XB3234A	1 13/32 - 1 1/2	19/32 - 5/8	14 19/32	
1 1/16 - 1 1/4	XB3440A	1 1/2 - 1 3/4	5/8 - 23/32	16 3/32	
1 1/8 - 1 3/16	XB3638A	1 9/32 - 1 21/32	21/32 - 11/16	16 3/32	
1 1/4 - 1 5/16	XB4042A	1 3/4 - 1 27/32	23/32 - 3/4	17 19/32	
1 3/8 - 1 7/16	XB4446A	1 31/32 - 2 1/16	3/4 - 25/32	19 1/8	
1 1/2 - 1 5/8	XB4852A	2 3/32 - 2 9/32	13/16 - 7/8	20 15/16	

ASME B107.100

Set includes storage tray



XB605A



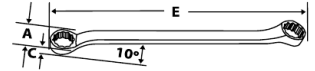
WARNING



- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

WRENCHES

Flank Drive® Offset Box



XSM608A



XS609A

Short Handle, 10° Offset, mm

Set Contains: XSM608A

mm	12	A	C	E	12
6 - 7	XSM67A	9.6 - 10.9	5.7 - 6.2	86	•
8 - 9	XSM89A	12.3 - 13.7	6.7 - 7.2	103	•
8 - 10	XSM810	12.3 - 15	6.7 - 7.7	107	•
9 - 10	XSM910A	13.7 - 15	7.2 - 7.7	112	•
11 - 12	XSM1112A	16.4 - 17.7	8.3 - 8.8	128	•
13 - 14	XSM1314A	19.1 - 20.4	9.3 - 9.8	146	•
15 - 16	XSM1516A	21.8 - 23.1	10.2 - 10.9	163	•
17 - 19	XSM1719A	24.5 - 27.2	11.4 - 12.3	185	•
18 - 20	XSM1820A	25.9 - 28.6	11.9 - 12.8	194	•

ASME® B107.100

Set includes storage tray

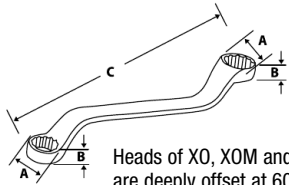
Short Handle, 10° Offset, inches

Set Contains: XS609A

11	12	A	C	E	12
3/16 - 7/32	XS67A	5/16 - 11/32	7/32 - 7/32	3 27/32	•
1/4 - 5/16	XS810A	13/32 - 15/32	1/4 - 9/32	4 1/4	•
5/16 - 3/8	XS1012A	15/32 - 9/16	9/32 - 5/16	4 9/16	•
3/8 - 7/16	XS1214A	9/16 - 21/32	5/16 - 11/32	4 29/32	•
7/16 - 1/2	XS1416A	21/32 - 3/4	11/32 - 11/32	5 3/16	•
1/2 - 9/16	XS1618A	3/4 - 13/16	3/8 - 3/8	5 17/32	•
9/16 - 5/8	XS1820A	13/16 - 29/32	13/32 - 7/16	5 7/8	•
5/8 - 3/4	XS2024A	29/32 - 1 1/16	7/16 - 1/2	6 3/8	•
11/16 - 13/16	XS2226A	1 - 1 5/32	15/32 - 17/32	6 23/32	•

ASME B107.100

Set includes storage tray



Heads of XO, XOM and XSO wrenches are deeply offset at 60° angle to the handles so recessed fasteners may be easily reached.



XOM605



XO605



XSO1214A

Standard Length, Deep 60° Offset, mm

Set Contains: XOM605

mm	12	A	B	C	12
8 - 10	XOM810	11.7 - 14.2	6.9 - 7.3	178.1	•
10 - 11	XOM1011	15 - 16.3	7.6	193.0	•
12 - 14	XOM1214	15 - 20.3	9.0	210.0	•
13 - 15	XOM1315	16.3 - 21.2	8.9	223.0	•
16 - 18	XOM1618	17.7 - 25.4	10.8	253.0	•
17 - 19	XOM1719	17.7 - 27.4	11.1	260.0	•
20 - 21	XOM2021	32.5 - 33.3	13.7	329.6	•
22 - 24	XOM2224	31.9 - 34.1	13.7	329.6	•

ASME B107.100

Set includes storage tray

Standard Length, Deep 60° Offset, inches

Set Contains: XO605

11	12	A	B	C	12
1/4 - 5/16	XO810	3/8	9/32 (1/4 - 9/32)	6 13/32	•
5/16 - 3/8	XO1012	15/32 - 9/16	9/32	7	•
3/8 - 7/16	XO1214	9/16 - 5/8	5/16	7 19/32	•
1/2 - 9/16	XO1618	23/32 - 13/16	11/32	8 25/32	•
9/16 - 5/8	XO1820	13/16 - 29/32	13/32	9 3/8	•
5/8 - 11/16	XO2022	29/32 - 1	13/32	9 15/16	•
5/8 - 3/4	XO2024	29/32 - 1 3/32	7/16	10 1/4	•
11/16 - 13/16	XO2226	1 - 1 5/32	15/32	10 27/32	•
3/4 - 7/8	XO2428	1 3/32 - 1 1/4	1/2	11 13/32	•
7/8 - 15/16	XO2830	1 1/4 - 1 11/32	17/32	12 31/32	•
15/16 - 1	XO3032	1 11/32 - 1 7/16	9/16	13 15/16	•

ASME/ANSI® B107.6

Set includes storage tray

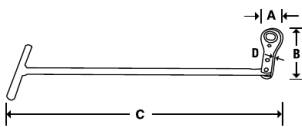
Short Handle, Deep 60° Offset, inches

11	12	A	B	C
1/4 - 5/16	XSO810A	3/8 - 7/16	3/16 - 7/32	4 5/32
3/8 - 7/16	XSO1214A	17/32 - 9/8	1/4 - 9/32	4 13/16

ASME/ANSI B107.100

WRENCHES

Ratcheting Box



RTBM605

Set Contains:

RTBM605
RTBM505

T-Handle, mm

mm	12	A	B	C	D	12	12
8	RTBM8	17.5	71.4	307.2	9.5	•	
10	RTBM10	23.0	76.2	307.2	9.5	•	
12	RTBM12	29.4	86.5	308.8	12.7	•	
13	RTBM13	29.4	86.5	308.8	12.7	•	
14	RTBM14	29.4	86.5	308.8	12.7	•	
15	RTBM15	36.8	98.6	308.8	12.7		•
16	RTBM16	36.8	98.6	308.8	12.7		•
17	RTBM17	36.8	98.6	308.8	12.7		•
18	RTBM18	36.8	98.6	308.8	12.7		•
19	RTBM19	36.8	98.6	308.8	12.7		•

Sets include storage tray



RTB607

Set Contains:

RTB607

T-Handle, inches

in	12	A	B	C	D	12
1/4	RTB8	11/16	2 13/16	12 3/32	3/8	•
5/16	RTB10	11/16	2 13/16	12 3/32	3/8	•
11/32	RTB11	29/32	3	12 3/32	3/8	•
3/8	RTB12	29/32	3	12 3/32	3/8	•
7/16	RTB14	29/32	3	12 3/32	3/8	•
1/2	RTB16	1 5/32	3 13/32	12 5/32	1/2	•
9/16	RTB18	1 5/32	3 13/32	12 5/32	1/2	•

Set includes storage tray



BXORM706

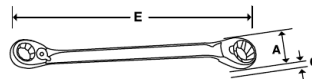
Standard Length, 25° Offset, mm
(Blue-Point®)

Set Contains:

BXORM706

mm	12	A	C	E	12
8 - 9	BXORM89	18.0 - 19.3	6.4 - 7.6	184.2	•
10 - 11	BXORM1011	21.8 - 22.1	8.1 - 8.6	203.2	•
12 - 13	BXORM1213	23.6 - 26.6	8.9 - 10.2	222.3	•
14 - 15	BXORM1415	27.2 - 28.7	10.2 - 10.9	241.3	•
16 - 17	BXORM1617	31.0 - 32.0	10.9 - 11.9	260.4	•
18 - 19	BXORM1819	34.5 - 36.8	12.2 - 13.2	279.4	•

Set includes storage tray



BXOR704

Standard Length, 25° Offset, inches
(Blue-Point)

Set Contains:

BXOR704

in	12	A	C	E	12
5/16 - 3/8	BXOR1012	23/32 - 7/8	1/4 - 5/16	7 1/2	•
7/16 - 1/2	BXOR1416	7/8 - 31/32	11/32 - 13/32	8 3/4	•
9/16 - 5/8	BXOR1820	1 1/16 - 7/32	13/32 - 7/16	9 3/4	•
11/16 - 3/4	BXOR2224	1 9/32 - 7/16	15/32 - 1/2	11	•

Set includes storage tray



RBM604C

Standard Length, 0° Offset, mm

Set Contains:

RBM604C

mm	6	12	A	C	E	12
7 - 8	RBM78SC	RBM78C	15.1 - 17.1	9.5	114.3	
8 - 10		RBM810C	20.2 - 22.6	9.5	139.7	
9 - 10		RBM910C	20.2 - 22.6	9.5	139.7	
10 - 11	RBM1011SC	RBM1011C	25.8 - 29.4	12.7	174.6	•
10 - 12		RBM1012C	25.8 - 29.4	12.7	174.6	
12 - 13	RBM1213SC	RBM1213C	25.8 - 29.4	12.7	174.6	•
12 - 14		RBM1214C	25.8 - 29.4	12.7	174.6	
14 - 15		RBM1415C	32.9 - 36.5	12.7	206.4	•
16 - 18		RBM1618C	32.9 - 36.5	12.7	206.4	
17 - 19		RBM1719C	32.9 - 36.5	12.7	206.4	•

Set includes storage tray



RB604C

Standard Length, 0° Offset, inches

Set Contains:

RB604C

in	6	12	A	C	E	12
1/4 - 5/16	R810SC	R810C	19/32 - 43/64	3/8	4 1/2	
5/16 - 11/32		R1011C	5/8 - 3/4	11/32	5 3/8	
5/16 - 3/8		R1012C	51/64 - 57/64	3/8	5 1/2	
3/8 - 7/16	R1214SC	R1214C	51/64 - 57/64	3/8	5 1/2	•
1/2 - 9/16	R1618SC	R1618C	1 1/64 - 1 5/32	1/2	6 7/8	•
5/8 - 11/16		R2022C	1 19/64 - 1 7/16	1/2	8 1/8	•
5/8 - 3/4		R2024C	1 19/64 - 1 7/16	1/2	8 1/8	
3/4 - 13/16		R2426C	1 13/32 - 1 37/64	1/2	9 1/4	
3/4 - 7/8		R2428C	1 13/32 - 1 37/64	1/2	9 1/4	•
13/16 - 15/16		R2630C	1 13/32 - 1 37/64	1/2	9 1/4	
7/8 - 15/16		R2830C	1 29/32 - 2 17/64	9/16	15	
15/16 - 1		R3032C	1 29/32 - 2 17/64	9/16	15	
1 1/16 - 1 1/8		R3436A	2 - 2	9/16	12 3/4	
1 1/8 - 1 1/4	R3640SA		2 3/32 - 2 3/32	9/16	12 13/16	
1 3/16 - 1 1/4		R3840A	2 - 2	9/16	12 3/4	

Set includes storage tray



WARNING



- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

WRENCHES

Ratcheting Box



RBZM605

Set Contains: **RBZM605**

Latch-on®, 0° Offset, mm

- Latch-on head keeps wrench on fastener
- Ring prevents nut/fastener head from sliding through wrench

mm	12	A	C	E	12
7 - 8	RBZM78	15.1 - 17.1	9.5	114.3	•
9 - 10	RBZM910	20.4 - 22.6	9.5	140.3	•
11 - 12	RBZM1112	25.8 - 29.4	12.7	174.6	•
13 - 14	RBZM1314	25.8 - 29.4	12.7	174.6	•
15 - 17	RBZM1517	32.9 - 36.5	12.7	206.4	•
16 - 18	RBZM1618	32.9 - 36.5	12.7	206.4	•
19 - 21	RBZM1921	35.7 - 40.1	12.7	234.9	•

Set includes storage tray



RBZ605

Set Contains: **RBZ605**

Latch-on, 0° Offset, inches

- Latch-on head keeps wrench on fastener
- Ring prevents nut/fastener head from sliding through wrench

in	12	A	C	E	12
1/4 - 5/16	RBZ810	19/32 - 11/16	3/8	4 1/2	•
3/8 - 7/16	RBZ1214	13/16 - 29/32	3/8	5 1/2	•
1/2 - 9/16	RBZ1618	1 1/32 - 1 5/32	1/2	6 7/8	•
5/8 - 11/16	RBZ2022	1 5/16 - 1 7/16	1/2	8 1/8	•
3/4 - 7/8	RBZ2428	1 13/32 - 1 19/32	1/2	9 1/4	•

Set includes storage tray



RBYAM605

Set Contains: **RBYAM605**

Standard Length, 25° Offset, mm

mm	12	A	C	E	12
7 - 8	RYAM78	15.5 - 16.3	9.5	105.2	•
9 - 10	RYAM910	19.8 - 22.6	9.5	134.5	•
11 - 12	RYAM1112	25.4 - 29	12.7	165.9	•
13 - 14	RYAM1314	25.4 - 29	12.7	165.9	•
15 - 17	RYAM1517	33 - 36.5	12.7	197.2	•
16 - 18	RYAM1618	33 - 36.5	12.7	197.2	•
19 - 21	RYAM1921	35.7 - 40.1	12.7	224.2	•

Set includes storage tray



RBYA605

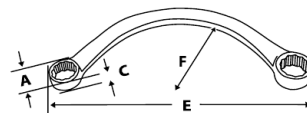
Set Contains: **RBYA605**

Standard Length, 25° Offset, inches

in	12	A	C	E	12
1/4 - 5/16	RYA810	9/16 - 5/8	11/32	4 9/32	•
5/16 - 11/32	RYA1011	19/32 - 11/16	3/8	4 1/32	•
3/8 - 7/16	RYA1214	3/4 - 7/8	11/32	6 5/32	•
1/2 - 9/16	RYA1618	15/16 - 1	13/32	6 31/32	•
5/8 - 11/16	RYA2022	1 1/8 - 1 1/4	13/32	7 27/32	•
3/4 - 7/8	RYA2428	1 3/8 - 1 1/2	7/16	8 5/8	•

Set includes storage tray

Flank Drive® Specialty Box



CXM605

Set Contains: **CXM605**

Half Moon, mm

mm	12	A	C	E	F	12
10 - 12	CXM1012	15 - 17	6 - 7	128	48	•
11 - 13	CXM1113	16 - 18	8 - 8	144	57	•
14 - 17	CXM1417	20 - 23	9 - 9	166	65	•
15 - 19	CXM1519	22 - 27	10 - 11	198	78	•
18 - 21	CXM1821	27 - 31	11 - 13	224	86	•

ASME® B107.100



CX605

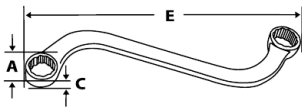
Set Contains: **CX605**

Half Moon, inches

in	12	A	C	E	F	12
5/16 - 3/8	CX1012	15/32 - 9/16	3/16 - 5/16	4 5/8	2 1/16	•
7/16 - 1/2	CX1416	5/8 - 23/32	5/16 - 5/16	5	2 7/32	•
9/16 - 5/8	CX1820	13/16 - 7/8	11/32 - 3/8	6 1/2	2 9/16	•
5/8 - 3/4	CX2024	7/8 - 1 7/32	13/32 - 7/16	7 3/4	3 1/16	•
11/16 - 13/16	CX2226	31/32 - 1 9/32	13/32 - 15/32	8 1/2	3 1/2	•
7/8 - 15/16	CX2830	1 1/4 - 1 11/32	9/16 - 9/16	10	4 1/16	•

ASME B107.100

Flank Drive® Specialty Box



SBXM605

“S” Shaped, mm

Set Contains:

SBXM605

mm	12	A	C	E	12
10 - 12	SBXM1012	14 - 18	6 - 8	140	•
11 - 13	SBXM1113	16 - 19	7 - 8	155	•
14 - 15	SBXM1415	21 - 22	9 - 9	190	•
16 - 18	SBXM1618	24 - 27	10 - 11	173	•
17 - 19	SBXM1719	25 - 28	10 - 12	240	•

ASME® B107.100

Set includes storage tray



SBX605

“S” Shaped, inches

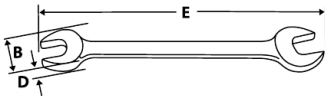
Set Contains:

SBX605

12	12	A	C	E	12
5/16 - 3/8	SBX1012	15/32 - 9/16	9/16 - 7/32	3 3/4	•
7/16 - 1/2	SBX1416	21/32 - 3/4	9/32 - 5/16	5 5/16	•
9/16 - 5/8	SBX1820	27/32 - 15/16	11/32 - 13/32	6 7/8	•
11/16 - 3/4	SBX2224	1 1/32 - 1 1/8	13/32 - 15/32	8 7/16	•
13/16 - 7/8	SBX2628	1 7/32 - 1 5/16	17/32 - 9/16	10	•

ASME B107.100

Set includes storage tray



LTAM811

Low Torque Slimline, 15° Offset, mm

Set Contains:

LTAM811

mm	Stock No.	B	D	E	
6 - 7	LTAM67	13 - 15	3	165	•
8 - 10	LTAM810	17 - 21	3	165	•
10 - 11	LTAM1011	21 - 23	3	165	•
12 - 14	LTAM1214	25 - 29	4	241	•
13 - 15	LTAM1315	27 - 31	4	241	•
16 - 18	LTAM1618	33 - 37	4	241	•
17 - 19	LTAM1719	35 - 39	4	241	•
19 - 22	LTAM1922	39 - 45	4	241	•
21 - 24	LTAM2124	43 - 49	4	241	•
27 - 30	LTAM2730	55 - 61	6	311	•
32 - 36	LTAM3236	65 - 73	6	311	•

ASME/ANSI® B107.100



LTA805K

Low Torque Slimline,
15° Offset, inches

Set Contains:

LTA812

LTA805K

12	Stock No.	B	D	E		
3/8 - 7/16	LTA1214	25/32 - 29/32	3/32	9 1/2	•	
7/16 - 1/2	LTA1416	29/32 - 1 1/32	5/32	9 1/2	•	•
1/2 - 9/16	LTA1618	1 1/32 - 1 5/32	5/32	9 1/2	•	•
5/8 - 11/16	LTA2022	1 9/32 - 1 13/32	5/32	9 1/2	•	•
3/4 - 13/16	LTA2426	1 17/32 - 1 11/16	5/32	9 1/2	•	•
3/4 - 7/8	LTA2428	1 17/32 - 1 25/32	5/32	9 1/2	•	•
15/16 - 1	LTA3032	1 29/32 - 2 1/32	5/32	9 1/2	•	•
1 1/16 - 1 1/8	LTA3436	2 5/32 - 2 9/32	1/4	12 1/4	•	•
1 1/4 - 1 5/16	LTA4042	2 17/32 - 2 21/32	1/4	12 1/4	•	•
1 3/8 - 1 7/16	LTA4446	2 25/32 - 2 29/32	1/4	12 1/4	•	•
1 1/2 - 1 5/8	LTA4852	3 1/16 - 3 9/32	9/32	14 1/4	•	•
1 11/16 - 1 7/8	LTA5460	3 13/32 - 3 17/32	9/32	14 1/4	•	•
	Kit Bag					C0507

ASME B107.100



- Use only moderate force on slimline wrench
- Do not use “cheater bars” on handles
- Read safety precautions on pages W1 to W4

WRENCHES

Open End



VOM1415B

Standard, mm

mm	Stock No.	B	D	E
6 - 7	VOM67B	13 - 15	4 - 4	97
7 - 8	VOM78B	15 - 17	4 - 4	106
8 - 10	VOM810B	17 - 21	4 - 5	121
10 - 11	VOM1011B	21 - 23	5 - 6	136
11 - 13	VOM1113B	23 - 27	6 - 6	151
12 - 13	VOM1213B	25 - 27	6 - 6	157
12 - 14	VOM1214B	25 - 29	6 - 7	162
14 - 15	VOM1415B	29 - 31	7 - 7	178
16 - 18	VOM1618B	33 - 37	7 - 8	205
17 - 19	VOM1719B	35 - 38	8 - 9	216
19 - 22	VOM1922B	39 - 46	9 - 10	245
21 - 24	VOM2124B	43 - 49	9 - 10	267
22 - 24	VOM2224B	46 - 49	10 - 10	273
27 - 30	VOM2730B	55 - 61	11 - 12	338
30 - 32	VOM3032B	61 - 65	12 - 12	368

ASME®/ANSI® B107.100



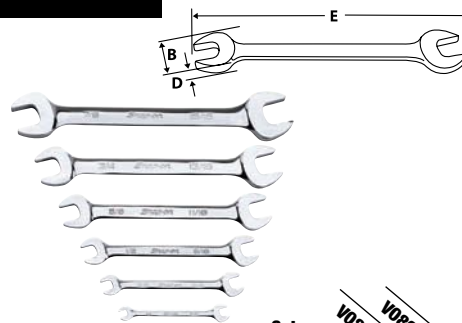
DSM810K

Ignition, 15/60° Offset, mm

Set Contains:

A	B	Stock No.	C	D	E
3.2	5.5	DSM3.25.5	8 - 11	3	74
5.5	3.2	DSM5.53.2	11 - 8	3	83
4	5	DSM45	9 - 11	3	77
5	4	DSM54	11 - 9	3	81
6	7	DSM67	12 - 14	3	85
7	6	DSM76	14 - 12	3	89
8	9	DSM89	15 - 17	3	93
9	8	DSM98	17 - 15	3	97
10	11	DSM1011	20 - 22	4	101
11	10	DSM1110	22 - 20	4	105
		Kit Bag			C1003A

ASME/ANSI B107.100



V0806B

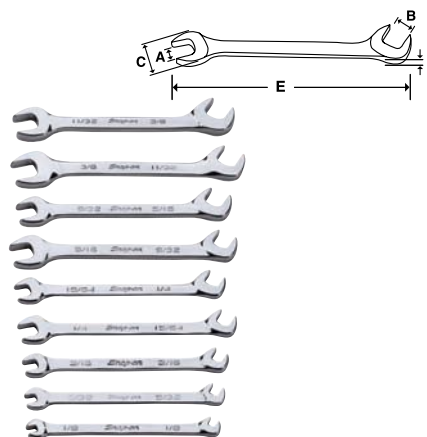
Set Contains:

Standard, inches

in	Stock No.	B	D	E
1/4 - 5/16	V0810B	17/32 - 21/32	5/32 - 5/32	4 1/16
5/16 - 3/8	V01012B	21/32 - 25/32	5/32 - 3/16	4 21/32
3/8 - 7/16	V01214B	25/32 - 29/32	3/16 - 7/32	5 5/16
7/16 - 1/2	V01416B	29/32 - 1 1/16	7/32 - 1/4	5 15/16
1/2 - 9/16	V01618B	1 1/16 - 1 5/32	1/4 - 9/32	6 19/32
9/16 - 5/8	V01820B	1 5/32 - 1 5/16	9/32 - 9/32	7 9/32
5/8 - 11/16	V02022B	1 5/16 - 1 13/32	9/32 - 5/16	7 15/16
5/8 - 3/4	V02024B	1 5/16 - 1 9/16	9/32 - 11/32	8 9/32
11/16 - 3/4	V02224B	1 13/32 - 1 9/16	5/16 - 11/32	8 5/8
3/4 - 13/16	V02426B	1 9/16 - 1 21/32	11/32 - 3/8	9 11/32
3/4 - 7/8	V02428B	1 9/16 - 1 13/16	11/32 - 3/8	9 21/32
13/16 - 7/8	V02628B	1 21/32 - 1 13/16	3/8 - 3/8	10 1/32
7/8 - 15/16	V02830B	1 13/16 - 1 29/32	3/8 - 13/32	10 3/4
15/16 - 1	V03032B	1 29/32 - 2 1/32	13/32 - 13/32	11 15/32
1 - 1 1/16	V03234B	2 1/32 - 2 5/32	13/32 - 7/16	12 7/32
1 1/16 - 1 1/4	V03440B	2 5/32 - 2 17/32	7/16 - 1/2	12 15/16
1 1/8 - 1 3/16	V03638B	2 5/16 - 2 13/32	7/16 - 15/32	13 23/32
1 1/4 - 1 5/16	V04042B	2 17/32 - 2 21/32	1/2 - 1/2	15 1/4
1 3/8 - 1 7/16	V04446B	2 13/16 - 2 29/32	17/32 - 17/32	16 7/8
1 1/2 - 1 5/8	V04852B	3 1/16 - 3 9/16	9/16 - 19/32	18 29/32
	Kit Bag			C200

ASME/ANSI B107.100

*Set includes storage tray



DS809K

Ignition, 15/60° Offsets, inches

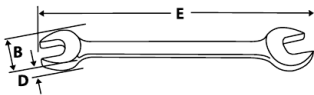
Set Contains:

A	B	Stock No.	C	D	E
1/8	1/8	DS88A	5/16 - 5/16	1/8	2 29/32
5/32	5/32	DS1010A	3/8 - 3/8	1/8	2 7/8
3/16	3/16	DS1212A	13/32 - 13/32	1/8	3 1/8
15/64	1/4	DS1516A	15/32 - 1/2	1/8	3 1/4
1/4	15/64	DS1615A	1/2 - 15/32	1/8	3 13/32
9/32	5/16	DS1820A	9/16 - 19/32	1/8	3 1/2
5/16	9/32	DS2018A	19/32 - 9/16	1/8	3 21/32
11/32	3/8	DS2224A	21/32 - 23/32	5/32	3 3/4
3/8	11/32	DS2422A	23/32 - 21/32	5/32	3 3/4
		Kit Bag			C0900A C0605

ASME/ANSI B107.100

WRENCHES

Open End



- Angle head wrenches offset at 30° and 60° angles to the handle
- Both ends are same size to permit use of one wrench in four positions



VSM807B



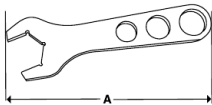
VS807B

Four-Way Angle Head, mm

#	Stock No.	B	D	E	Set Contains:	
					VSM814	VSM807B*
10	VSM5210B	20	6	127	•	•
11	VSM5211B	22	6	137	•	•
12	VSM5212B	24	6	145	•	•
13	VSM5213B	26	6	154	•	•
14	VSM5214B	28	6	164	•	•
15	VSM5215B	30	7	173	•	•
16	VSM5216B	31	7	181	•	•
17	VSM5217B	34	7	191	•	•
18	VSM5218B	36	7	200	•	•
19	VSM5219B	37	7	210	•	•
21	VSM5221B	41	8	228	•	•
22	VSM5222B	44	8	239	•	•
24	VSM5224B	47	8	254	•	•
27	VSM5227B	53	9	283	•	•

ASME® B107.100

*Set includes storage tray



Aluminum (for AN Fittings)

- Securely tighten expensive AN fittings to reduce risk of damage in aircraft, marine and industrial applications as well as race and show cars
- Machined from aluminum billet to exacting tolerances
- Made from quality heat treated hardened aluminum
- Corner reliefs on open end wrenches prevent rounding the corners of the fitting
- Handle length designed to apply appropriate torque without overtightening
- Open end wrenches are color coded and stamped for quick size identification



ANWR708

Set Contains:
ANWR708

#	Stock No.	Color	A inches (mm)	
No. 3	ANWR3	Silver	4 (101.6)	•
No. 4	ANWR4	Black	4 3/4 (120.7)	•
No. 6	ANWR6	Light Blue	5 3/4 (146.1)	•
No. 8	ANWR8	Pink	5 3/4 (146.1)	•
No. 10	ANWR10	Gold	7 1/8 (181.0)	•
No. 12	ANWR12	Red	7 1/2 (190.5)	•
No. 16	ANWR16	Brass	8 3/4 (222.3)	•
No. 20	ANWR20	Dark Blue	9 1/4 (237.0)	•

Set includes heavy gauge vinyl pouch



WARNING



- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4



GVS24B

Four-Way Angle Head, inches

#	Stock No.	Industrial Stock No.	B	D	E	Set Contains:		
						VS828A	VS814A	VS807B*
1/4	VS8B		17/32	3/16	3 11/16	•	•	•
5/16	VS10B		21/32	3/16	4 1/4	•	•	•
11/32	VS11B		23/32	7/32	4 17/32	•	•	•
3/8	VS12B		25/32	7/32	4 27/32	•	•	•
7/16	VS14B		7/8	7/32	5 13/32	•	•	•
1/2	VS16B	GVS16B	1	1/4	5 31/32	•	•	•
9/16	VS18B	GVS18B	1 1/8	1/4	6 9/16	•	•	•
5/8	VS20B	GVS20B	1 1/4	9/32	7 1/8	•	•	•
11/16	VS22B	GVS22B	1 3/8	9/32	7 11/16	•	•	•
3/4	VS24B	GVS24B	1 15/32	9/32	8 9/32	•	•	•
13/16	VS26B	GVS26B	1 19/32	5/16	8 27/32	•	•	•
7/8	VS28B	GVS28B	1 23/32	5/16	9 13/32	•	•	•
15/16	VS30B	GVS30B	1 27/32	11/32	10	•	•	•
1	VS32B	GVS32B	1 31/32	11/32	10 9/16	•	•	•
1 1/16	VS34B		2 3/32	11/32	11 1/8	•	•	•
1 1/8	VS36B		2 3/16	3/8	11 23/32	•	•	•
1 3/16	VS38B		2 11/32	3/8	12 9/32	•	•	•
1 1/4	VS40B	GVS40B	2 7/16	13/32	12 7/8	•	•	•
1 5/16	VS42B		2 9/16	13/32	13 7/16	•	•	•
1 3/8	VS44B		2 11/16	13/32	14	•	•	•
1 7/16	VS46B		2 27/32	7/16	14 19/32	•	•	•
1 1/2	VS48B		2 15/16	7/16	15 5/32	•	•	•
1 5/8	VS52B		3 7/32	15/32	16 5/16	•	•	•
1 11/16	VS54B		3 11/32	1/2	16 7/8	•	•	•
1 3/4	VS56B		3 15/32	1/2	17 7/16	•	•	•
1 13/16	VS58B		3 19/32	1/2	18	•	•	•
1 7/8	VS60B		3 23/32	17/32	18 19/32	•	•	•
2	VS64B		3 31/32	9/16	19 3/4	•	•	•

ASME B107.100

*Set includes storage tray

Open End Wrenches (Blue-Point®)



BDOEM1415

Open End, mm

#	Stock No.	Length, mm
10-11	BDOEM1011	145
12-13	BDOEM1213	165
14-15	BDOEM1415	185
16-17	BDOEM1617	185
18-19	BDOEM1819	227



BDOE1820

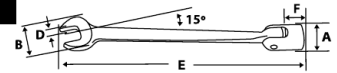
Open End, inches

#	Stock No.	Length, inches
5/16-3/8	BDOE1012	5 5/16
7/16-1/2	BDOE1416	6 1/2
9/16-5/8	BDOE1820	7 9/32
11/16-3/4	BDOE2224	8 15/16

ASME/ANSI® B107.100

WRENCHES

Flank Drive® Flex Head



FHOM606B



FHO607B

Flex-Combination, mm

Set Contains:

FHOM606B

mm	12	A	B	D	E	F	12
8	FHOM8B	12	17	5	146	6	
9	FHOM9B	13	18	5	156	6	
10	FHOM10B	14	20	5	166	6	•
11	FHOM11B	16	23	6	181	7	
12	FHOM12B	17	30	6	198	9	•
13	FHOM13B	19	27	7	205	9	•
14	FHOM14B	20	30	7	213	9	•
15	FHOM15B	21	31	7	224	10	•
16	FHOM16B	23	33	7	229	10	
17	FHOM17B	24	37	8	246	10	•
18	FHOM18B	24	38	8	254	11	
19	FHOM19B	26	40	8	261	12	

ASME® B107.100

Set includes storage tray

Flex-Combination, inches

Set Contains:

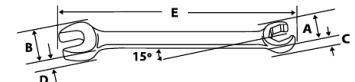
FHO607B

II	12	A	B	D	E	F	12
1/4	FH08B	3/8	17/32	1/8	4 15/16	7/32	
5/16	FH010B	15/32	21/32	3/16	5 31/32	1/4	
3/8	FH012B	9/16	17/32	7/32	6 1/2	1/4	•
7/16	FH014B	5/8	29/32	7/32	7 1/8	9/32	•
1/2	FH016B	23/32	1 1/16	1/4	7 13/16	11/32	•
9/16	FH018B	25/32	1 3/16	9/32	8 3/8	11/32	•
5/8	FH020B	29/32	1 5/16	9/32	9	3/8	•
11/16	FH022B	1	1 7/16	9/32	9 11/16	13/32	•
3/4	FH024B	1 1/32	1 1/2	5/16	10 1/4	15/32	•
13/16	FH026B	1 1/32	1 23/32	5/16	10 5/16	1/2	
7/8	FH028B	1 3/16	1 27/32	5/16	10 15/32	9/16	

ASME B107.100

Set includes storage tray

Flank Drive Flare Nut



RXSM605B



RXS605B

Open End and Flare Nut, mm

Set Contains:

RXSM605B

mm	6	A	B	C	D	E	6
8	RXSM8B	17	17	7	7	135	
9	RXSM9B	18	19	7	7	144	
10	RXSM10B	20	21	8	8	152	•
11	RXSM11B	21	23	9	9	162	•
12	RXSM12B	22	25	9	9	169	•
13	RXSM13B	24	27	9	9	178	•
14	RXSM14B	25	29	10	10	186	•
15	RXSM15B	26	31	10	10	194	
16	RXSM16B	27	33	11	11	202	
17	RXSM17B	29	35	11	11	211	
18	RXSM18B	30	37	12	12	219	
19	RXSM19B	32	39	12	12	228	
20	RXSM20B	33	41	14	14	235	

ASME B107.100

Set includes storage tray

Open End and Flare Nut, inches

Set Contains:

RXS605B

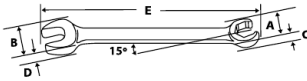
II	6	A	B	C	D	E	6
3/8	RXS12B	3/4	25/32	5/16	5/16	5 27/32	•
7/16	RXS14B	27/32	29/32	11/32	11/32	6 3/8	•
1/2	RXS16B	29/32	1 1/16	3/8	3/8	6 7/8	•
9/16	RXS18B	1	1 5/32	13/32	13/32	7 13/32	•
5/8	RXS20B	1 3/32	1 5/16	7/16	7/16	7 15/16	•

ASME B107.100

Set includes storage tray

WRENCHES

Flank Drive® Flare Nut



RXFMS606B

Double End, mm

Set Contains:

mm	6	A-B	C-D	E	6
9 - 11	RXFMS911B	18 - 21	7 - 8	145	•
10 - 12	RXFMS1012B	20 - 22	8 - 9	153	•
13 - 14	RXFMS1314B	24 - 25	9 - 10	173	•
15 - 17	RXFMS1517B	26 - 29	10 - 11	193	•
16 - 18	RXFMS1618B	28 - 30	11 - 12	200	•
19 - 21	RXFMS1921B	32 - 34	12 - 13	223	•

ANSI® B107.100

Set includes storage tray



RXFS605B

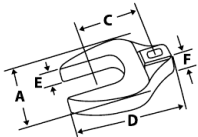
Double End, inches

Set Contains:

11	6	A-B	C-D	E	6
1/4 - 5/16	RXFS810B	19/32 - 21/32	1/4 - 9/32	4 27/32	•
3/8 - 7/16	RXFS1214B	3/4 - 27/32	5/16 - 11/32	5 13/16	•
1/2 - 9/16	RXFS1618B	29/32 - 1	3/8 - 13/32	6 13/16	•
5/8 - 11/16	RXFS2022B	1 3/32 - 1 5/32	7/16 - 15/32	7 3/4	•
3/4 - 13/16	RXFS2426B	1 1/4 - 1 5/16	1/2 - 17/32	8 25/32	•
3/4 - 7/8	RXFS2428B	1 1/4 - 1 27/64	1/2 - 5/8	9 1/2	•
3/4 - 1	RXFS2432B	1 1/4 - 1 9/16	1/2 - 5/8	9 1/2	•
7/8 - 1 1/8	RXFS2836B	1 13/32 - 1 3/4	9/16 - 11/16	10 1/2	•

ASME® B107.100

Set includes storage tray



1/4" Drive Crowfoot Wrenches



107TMCOM

Open End, chrome mm

Set Contains:

mm	Stock No.	A	C	E	F	D	
7	TMCOM7	13.5	13.2	6.6	6.6	24.4	•
8	TMCOM8	16.8	14.1	6.6	6.6	25.9	•
10	TMCOM10	19.8	14.6	6.6	6.6	27.5	•
11	TMCOM11	22.4	16.0	7.9	7.9	29.4	•
12	TMCOM12	24.4	16.5	7.9	7.9	30.6	•
13	TMCOM13	26.4	16.6	7.9	7.9	31.2	•
14	TMCOM14	29.0	17.7	7.9	7.9	32.9	•

ASME B107.21

Set includes storage tray



106TMC0

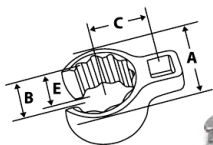
Open End, chrome inches

Set Contains:

11	Stock No.	A	C	E	F	D	
1/4	TMC08	17/32	17/32	1/4	1/4	31/32	•
5/16	TMC010	21/32	9/16	1/4	1/4	1 1/32	•
3/8	TMC012	25/32	19/32	1/4	1/4	1 3/32	•
7/16	TMC014	7/8	5/8	5/16	5/16	1 5/32	•
1/2	TMC016	1 1/32	21/32	5/16	5/16	1 1/4	•
9/16	TMC018	1 1/8	11/16	5/16	5/16	1 9/32	•

ASME B107.21

Set includes storage tray



TMRX12

Flank Drive Flare Nut-Shallow, inches, 12 Point

11	12	A	B	C	E	Maximum Recommended Working Torque, in lb
1/4	TMRX8	13/32	1/8	31/32	1/4	75
5/16	TMRX10	1/2	3/16	31/32	1/4	75
3/8	TMRX12	19/32	1/4	31/32	1/4	75

ASME B107.21



AN85088B

Flank Drive Flare Nut-Deep, inches, 12 Point

11	12	A	C	E	Maximum Recommended Working Torque, in lb
3/8	AN85086B	9/32	1/2	1/2	75
7/16	AN85087B	11/32	9/16	9/16	200
1/2	AN85088B	13/32	19/32	9/16	200
9/16	AN85089B	15/32	5/8	9/16	200

ASME B107.21



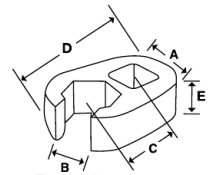
WARNING



- Use only moderate force on crowfoot and flare nut wrenches
- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

WRENCHES

3/8" Drive Crowfoot Wrenches



210FRHMA

Flank Drive® Flare Nut, chrome mm, 6 Point

Set Contains:

210FRHMA

mm	6	A	B	C	D	E	Maximum Recommended Working Torque, in lb	6
9	FRHM9	22.4	6.7	14.2	33.3	9.7	150	
10	FRHM10	22.9	7.4	14.2	35.3	9.7	200	•
11	FRHM11	22.9	8.3	14.2	35.3	9.7	200	•
12	FRHM12	25.4	9.0	14.2	36.6	9.7	250	•
13	FRHM13	25.4	9.4	14.2	36.6	9.7	250	•
14	FRHM14	28.4	10.5	18.8	40.9	11.2	375	•
15	FRHM15	28.4	11.2	18.8	40.9	11.2	375	•
16	FRHM16	28.4	11.7	18.8	40.9	11.2	375	•
17	FRHM17	33.3	12.6	20.6	44.7	12.7	525	•
18	FRHM18	33.3	13.6	20.6	44.7	12.7	525	•
19	FRHM19	33.3	14.7	20.6	44.7	12.7	525	•
20	FRHM20	41.1	15.2	22.1	50.3	14.2	600	
21	FRHM21	41.1	16.3	22.1	50.3	14.2	650	
22	FRHM22	41.1	17.0	22.1	50.3	14.2	650	

ASME® B107.21

Set includes storage tray



205ANM

Flank Drive Flare Nut-Deep, chrome mm, 12 Point

Set Contains:

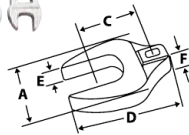
205ANM

mm	12	A	B	C	E	Maximum Recommended Working Torque, in lb	12
12	ANM12	18.9	8.3	16.3	15.0	•	
13	ANM13	21.2	9.7	17.7	15.0	•	
14	ANM14	21.2	10.5	17.7	15.0	•	
17	ANM17	26.6	13.0	19.7	19.1	•	
19	ANM19	29.0	14.6	20.9	19.8	•	

Set includes storage tray



210FCOMA



Open End, chrome mm

Set Contains:

216FCOM

210FCOMA*

mm	Stock No.	A	C	E	F	D	Maximum Recommended Working Torque, in lb		
9	FCOM9A	22.4	18.8	5.3	13.2	33.3	75	•	
10	FCOM10A	22.4	17.6	5.3	13.2	33.0	75	•	•
11	FCOM11A	22.4	16.6	5.3	13.2	32.3	75	•	•
12	FCOM12A	26.2	21.0	5.3	13.2	37.3	105	•	•
13	FCOM13A	26.2	19.8	5.3	13.2	36.8	105	•	•
14	FCOM14A	26.2	18.6	5.3	13.2	36.1	105	•	•
15	FCOM15A	31.8	22.7	5.3	13.2	40.9	125	•	•
16	FCOM16A	31.8	21.7	5.3	13.2	40.4	125	•	•
17	FCOM17A	31.8	20.5	5.3	13.2	39.9	125	•	•
18	FCOM18A	38.4	27.2	6.4	13.2	48.5	170	•	•
19	FCOM19A	38.4	26.2	6.4	13.2	48.0	170	•	•
20	FCOM20A	38.4	25.0	6.4	13.2	48.0	170	•	•
21	FCOM21A	43.7	27.4	7.1	15.0	48.8	250	•	•
22	FCOM22A	43.7	26.4	7.1	15.0	50.0	250	•	•
23	FCOM23A	50.5	30.1	8.9	16.8	54.4	390	•	•
24	FCOM24A	50.5	28.8	8.9	16.8	53.8	400	•	•

ASME B107.21

*Set includes storage tray



207SFRH

Flank Drive Flare Nut, chrome inches, 6 Point

Set Contains:

207SFRH

in	6	A	B	C	D	E	Maximum Recommended Working Torque, in lb	6
3/8	FRH120S	13/32	1/4	9/16	1 11/32	3/8	150	•
7/16	FRH140S	29/32	5/16	9/16	1 13/32	3/8	200	•
1/2	FRH160S	1	11/32	9/16	1 7/16	3/8	250	•
9/16	FRH180S	1 1/8	3/8	3/4	1 5/8	7/16	300	•
5/8	FRH200S	1 1/8	7/16	3/4	1 5/8	7/16	375	•
11/16	FRH220S	1 5/16	1/2	13/16	1 25/32	1/2	450	•
3/4	FRH240S	1 5/16	9/16	13/16	1 25/32	1/2	525	•
13/16	FRH260S	1 5/8	5/8	7/8	1 31/32	9/16	600	
7/8	FRH280S	1 5/8	23/32	7/8	1 31/32	9/16	675	
15/16	FRH300S	1 7/8	11/16	15/16	2 3/16	5/8	750	
1	FRH320S	1 7/8	3/4	15/16	2 3/16	5/8	825	

ASME B107.21

Set includes storage tray



208AN

Flank Drive Flare Nut-Deep, chrome inches, 12 Point

Set Contains:

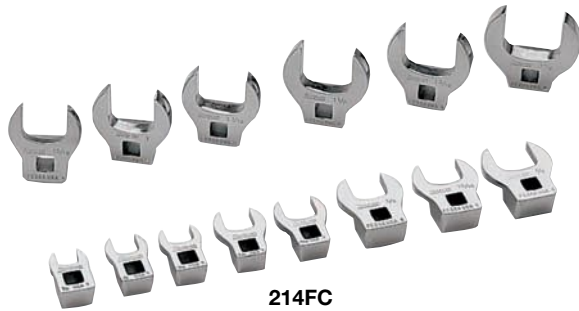
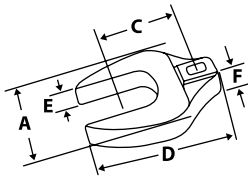
208AN

in	12	A	B	C	E	Maximum Recommended Working Torque, in lb	12
5/8	AN850810B	15/16	1/2	23/32	23/32	250	•
11/16	AN850811B	1 1/32	17/32	25/32	23/32	310	•
3/4	AN850812B	1 1/8	9/16	13/16	3/4	450	•
13/16	AN850813B	1 7/32	5/8	7/8	3/4	450	•
7/8	AN850814B	1 5/16	25/32	15/16	25/32	625	•
15/16	AN850815B	1 3/8	3/4	31/32	25/32	625	•
1	AN850816B	1 7/16	3/4	1	13/16	625	•
1 1/16	AN850817B	1 17/32	29/32	1 1/32	13/16	625	•

ASME/ANSI® B107.21

WRENCHES

3/8" Drive Crowfoot Wrenches



Open End, inches

	Stock No.	Industrial Stock No.	A	C	E	F	D	Maximum Recommended Working Torque, in lb	Set Contains:				
									242FC	226FC	214FC	211GFCO	211FC0A
3/8	FC012A	GFC012A	7/8	23/32	7/32	33/64	1 19/64	75				•	•
7/16	FC014A	GFC014A	7/8	41/64	7/32	33/64	1 17/64	75	•	•	•	•	•
1/2	FC016A	GFC016A	1 1/32	51/64	7/32	33/64	1 29/64	105	•	•	•	•	•
9/16	FC018A	GFC018A	1 1/4	59/64	7/32	33/64	1 5/8	105	•	•	•	•	•
5/8	FC020A	GFC020A	1 1/4	55/64	7/32	33/64	1 19/32	125	•	•	•	•	•
11/16	FC022A	GFC022A	1 9/16	1 3/32	7/32	33/64	1 59/64	150	•	•	•	•	•
3/4	FC024A	GFC024A	1 9/16	1 1/32	7/32	33/64	1 57/64	190	•	•	•	•	•
13/16	FC026A	GFC026A	1 23/32	1 3/32	9/32	19/32	2	245	•	•	•	•	•
7/8	FC028A	GFC028A	1 23/32	1 1/32	9/32	19/32	1 31/32	300	•	•	•	•	•
15/16	FC030A	GFC030A	2	1 5/32	11/32	21/32	2 1/8	360	•	•	•	•	•
1	FC032A	GFC032A	2	1 5/64	11/32	21/32	2 3/32	420	•	•	•	•	•
1 1/16	FC34B		1 23/32	1 3/64	3/8	39/64	1 15/32	465	•	•	•	•	•
1 1/8	FC36A		1 29/32	1 5/32	3/8	39/64	2 1/16	510	•	•	•	•	•
1 3/16	FC38A		1 29/32	1 13/64	3/8	39/64	2 1/16	510	•	•	•	•	•
1 1/4	FC40A		2 5/32	1 15/64	3/8	41/64	2 7/32	555	•	•	•	•	•
1 5/16	FC42A		2 5/32	1 17/64	3/8	41/64	2 7/32	600	•	•	•	•	•
1 3/8	FC44A		2 3/8	1 19/64	3/8	41/64	2 3/8	680	•	•	•	•	•
1 7/16	FC46A		2 3/8	1 11/32	3/8	41/64	2 3/8	760	•	•	•	•	•
1 1/2	FC48A		2 17/32	1 3/8	3/8	41/64	2 1/2	795	•	•	•	•	•
1 9/16	FC50A		2 17/32	1 13/32	3/8	41/64	2 1/2	795	•	•	•	•	•
1 5/8	FC52A		2 21/32	1 29/64	3/8	41/64	2 19/32	820	•	•	•	•	•
1 11/16	FC54A		2 21/32	1 31/64	3/8	41/64	2 19/32	860	•	•	•	•	•
1 3/4	FC56A		2 7/8	1 33/64	3/8	41/64	2 3/4	910	•	•	•	•	•
1 13/16	FC58A		2 7/8	1 35/64	3/8	41/64	2 3/4	960	•	•	•	•	•
1 7/8	FC60A		3 5/32	1 19/32	3/8	41/64	2 55/64	1040	•	•	•	•	•
1 15/16	FC62A		3 5/32	1 5/8	3/8	41/64	2 55/64	1040	•	•	•	•	•
2	FC64A		3 13/32	1 23/32	1/2	45/64	3 1/8	1115	•	•	•	•	•
2 1/16	FC66A		3 13/32	1 3/4	1/2	45/64	3 1/8	1190	•	•	•	•	•
2 1/8	FC68A		3 19/32	1 25/32	1/2	45/64	3 1/4	1190	•	•	•	•	•
2 3/16	FC70A		3 19/32	1 53/64	1/2	45/64	3 1/4	1275	•	•	•	•	•
2 1/4	FC72A		3 27/32	1 15/16	1/2	45/64	3 1/2	1370	•	•	•	•	•
2 5/16	FC74A		3 27/32	1 15/16	1/2	45/64	3 1/2	1370	•	•	•	•	•
2 3/8	FC76A		4 3/32	2 1/16	1/2	45/64	3 3/4	1450	•	•	•	•	•
2 7/16	FC78A		4 3/32	2 1/8	1/2	45/64	3 3/4	1555	•	•	•	•	•
2 1/2	FC80A		4 9/32	2 11/64	1/2	45/64	3 57/64	1555	•	•	•	•	•
2 9/16	FC82A		4 9/32	2 11/64	1/2	45/64	3 57/64	1660	•	•	•	•	•
2 5/8	FC84A		4 17/32	2 21/64	1/2	45/64	4 1/8	1760	•	•	•	•	•
2 11/16	FC86A		4 17/32	2 3/8	1/2	45/64	4 1/8	1760	•	•	•	•	•
2 3/4	FC88A		4 23/32	2 7/16	1/2	45/64	4 19/64	1900	•	•	•	•	•
2 13/16	FC90A		4 23/32	2 17/32	1/2	45/64	4 19/64	2075	•	•	•	•	•
2 7/8	FC92A		5 3/32	2 41/64	1/2	45/64	4 43/64	2075	•	•	•	•	•
2 15/16	FC94A		5 3/32	2 43/64	1/2	45/64	4 5/8	2200	•	•	•	•	•
3	FC96A		5 3/32	2 23/32	1/2	45/64	4 5/8	2200	•	•	•	•	•

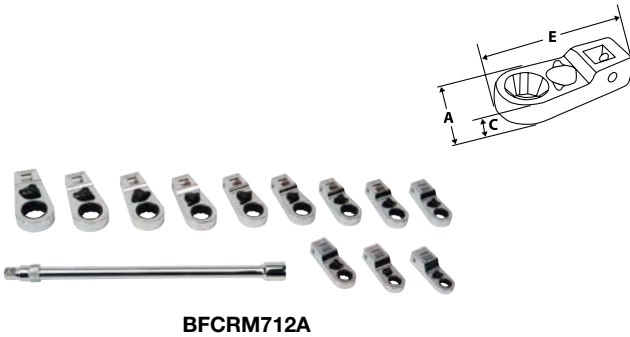
ASME®/ANSI® B107.100



- Use only moderate force on crowfoot and flarenut wrenches
- Read safety precautions on pages W1 to W4

WRENCHES

3/8" - 1/2" Drive Crowfoot Wrenches



3/8" Ratcheting, mm (Blue-Point®)

mm		A	C	E	
8	BFCRM8A	17.8	6.5	49.3	•
9	BFCRM9A	19.5	7.4	50.8	•
10	BFCRM10A	21.5	8.0	53.8	•
11	BFCRM11A	22.0	8.5	53.8	•
12	BFCRM12A	23.5	9.0	57.2	•
13	BFCRM13A	25.0	10.0	57.2	•
14	BFCRM14A	27.0	10.0	60.3	•
15	BFCRM15A	28.5	11.0	63.5	•
16	BFCRM16A	30.5	11.0	66.7	•
17	BFCRM17A	34.5	12.0	68.3	•
18	BFCRM18A	36.5	12.0	71.4	•
19	BFCRM19A	36.5	12.9	73.0	•

*Set includes **FXLBP10** -10" locking extension

Set includes storage tray



315AN

1/2" Flank Drive® Flare Nut-Deep, inches, 12 Point

12	A	B	C	E	Maximum Recommended Working Torque, in lb	12	
1 1/8	AN850818B	1 5/8	27/32	1 5/32	7/8	825	•
1 3/16	AN850819B	1 11/16	29/32	1 3/16	7/8	825	•
1 1/4	AN850820B	1 25/32	15/16	1 7/32	7/8	825	•
1 5/16	AN850821B	1 27/32	31/32	1 1/4	7/8	900	•
1 3/8	AN850822B	1 15/16	1 1/16	1 5/16	15/16	900	•
1 7/16	AN850823B	2	1 1/16	1 11/32	15/16	900	•
1 1/2	AN850824B	2 3/32	1 1/8	1 3/8	15/16	900	•
1 9/16	AN850825B	2 5/32	1 5/32	1 13/32	15/16	900	•
1 5/8	AN850826B	2 7/32	1 7/32	1 7/16	15/16	1,100	•
1 11/16	AN850827B	2 5/16	1 5/16	1 1/2	1 1/32	1,100	•
1 3/4	AN850828B	2 3/8	1 5/16	1 9/16	1 1/32	1,150	•
1 13/16	AN850829B	2 15/32	1 11/32	1 19/32	1 1/32	1,200	•
1 7/8	AN850830B	2 9/16	1 3/8	1 21/32	1 1/16	1,200	•
1 15/16	AN850831B	2 5/8	1 7/16	1 11/16	1 1/16	1,200	•
2	AN850832B	2 23/32	1 9/16	1 23/32	1 1/16	1,400	•
2 1/8	AN850834B	2 7/8	1 9/16	1 13/16	1 1/8	1,450	•
2 3/16	AN850835B	2 15/16	1 21/32	1 27/32	1 1/8	1,500	•
2 1/4	AN850836B	3 1/32	1 11/16	1 7/8	1 1/8	1,500	•
2 3/8	AN850838B	3 3/16	1 13/16	1 31/32	1 3/16	1,600	•
2 7/16	AN850839B	3 1/4	1 13/16	2	1 3/16	1,650	•
2 9/16	AN850841B	3 7/16	1 29/32	2 3/32	1 9/32	1,750	•
2 5/8	AN850842B	3 1/2	2 1/16	2 1/8	1 9/32	1,800	•
2 11/16	AN850843B	3 19/32	2 1/16	2 5/32	1 9/32	1,800	•
2 3/4	AN850844B	3 21/32	2 1/16	2 7/32	1 9/32	1,850	•
3 1/8	AN850850B	4 1/8	2 5/16	2 7/16	1 5/16	2,000	•

ASME® B107.21



BFCR708A

3/8" Ratcheting, inches (Blue-Point)

	A	C	E		
5/16	BFCR10A	11/16	1/4	2	•
3/8	BFCR12A	27/32	5/16	2 1/8	•
7/16	BFCR14A	7/8	11/32	2 1/8	•
1/2	BFCR16A	31/32	13/32	2 1/4	•
9/16	BFCR18A	1 1/16	13/32	2 3/8	•
5/8	BFCR20A	1 3/16	7/16	2 5/8	•
11/16	BFCR22A	1 1/4	15/32	2 5/8	•
3/4	BFCR24A	1 7/16	1/2	2 7/8	•

*Set includes **FXLBP10** -10" locking extension

Set includes storage tray



A277



ADCF8

Crowfoot Wrench Holder

A277 3/8" Crowfoot Holder.

- Organize and store your crowfoot wrenches
- 2 piece design snaps apart for access to desired size
- 8 3/4" long

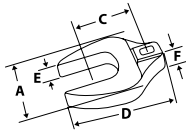
ADCF8 Adjustable Crowfoot Wrench.

- Metric and fractional scales
- Opening range from 0 to 1.14" (0 to 29 mm)
- Lateral side nut designed to work on difficult access fasteners and minimize dirt accumulation

Stock No.	Drive Size	Maximum Recommended Working Torque, in lb
ADCF8	3/8	2,849

WRENCHES

Flank Drive® Combination



SCOM32



314SCO

1/2" Open End, mm

mm		A	C	E	F	Maximum Recommended Working Torque, in lb
20	SCOM20	40.4	42.9	7.8	15.9	1,400
21	SCOM21	40.4	42.9	7.8	15.9	1,500
22	SCOM22	44.7	44.5	8.2	15.9	1,500
23	SCOM23	48.0	44.5	8.9	15.9	1,600
24	SCOM24	46.7	44.5	8.5	15.9	1,800
25	SCOM25	51.1	45.2	8.9	15.9	1,800
26	SCOM26	53.1	45.2	9.2	15.9	1,800
27	SCOM27	53.1	44.5	9.2	15.9	2,000
28	SCOM28	53.1	43.6	9.2	15.9	2,100
30	SCOM30	59.7	44.5	9.9	15.9	2,200
32	SCOM32	62.7	50.0	10.3	15.9	2,300
34	SCOM34	62.7	51.6	10.3	15.9	2,400
35	SCOM35	69.1	50.8	11.0	15.9	2,500
36	SCOM36	69.1	50.0	11.0	15.9	2,600
38	SCOM38	75.4	50.8	11.8	15.9	2,900
40	SCOM40	75.4	51.6	11.8	15.9	3,000
41	SCOM41	81.8	50.8	12.5	15.9	3,400
42	SCOM42	81.8	50.0	12.5	15.9	3,400
46	SCOM46	91.2	51.2	13.5	15.9	4,100

ASME® B107.21

1/2" Open End, inches

		A	C	E	F	Maximum Recommended Working Torque, in lb	
15/16	SC030	1 27/32	1 15/32	11/32	5/8	1,800	
1	SC032	1 31/32	1 11/16	23/64	5/8	1,900	
1 1/16	SC034	2 3/32	1 3/4	3/8	5/8	2,000	•
1 1/8	SC036	2 7/32	1 3/4	3/8	5/8	2,100	•
1 3/16	SC038	2 11/32	1 3/4	13/32	5/8	2,200	•
1 1/4	SC040	2 15/32	2	13/32	5/8	2,300	•
1 5/16	SC042	2 19/32	2	7/16	5/8	2,400	•
1 3/8	SC044	2 23/32	2	7/16	5/8	2,500	•
1 7/16	SC046	2 27/32	2	7/16	5/8	2,600	•
1 1/2	SC048	2 31/32	2	15/32	5/8	2,900	•
1 9/16	SC050	2 31/32	1 31/32	15/32	5/8	3,000	
1 5/8	SC052	3 7/32	1 31/32	1/2	5/8	3,400	•
1 11/16	SC054	3 11/32	2 3/16	1/2	5/8	3,700	•
1 3/4	SC056	3 15/32	2 3/16	17/32	5/8	3,900	•
1 13/16	SC058	3 19/32	2 3/16	17/32	5/8	4,100	•
1 7/8	SC060	3 23/32	2 3/16	9/16	5/8	4,300	•
2	SC064	3 31/32	2 7/32	9/16	5/8	5,000	•
2 1/8	SC068	3 31/32	2 7/32	37/64	5/8	5,000	
2 1/4	SC072	3 31/32	2 13/32	37/64	5/8	5,000	
2 3/8	SC076	4 3/8	2 31/64	19/32	5/8	5,000	
2 7/16	SC078	4 3/8	2 7/16	19/32	5/8	5,000	
2 1/2	SC080	4 3/8	2 13/32	19/32	5/8	5,000	

ASME B107.21

Heavy Duty Striking Wrenches

Flank Drive Straight Handle Sledge Hammer, inches, 12 Point

Set Contains:

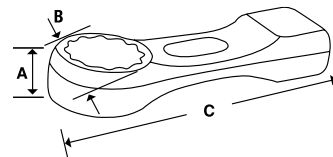
DX63A

	12	A	B	C	
1 3/16	DX138A	7/8	2 3/32	7 35/64	•
1 1/4	DX140A	7/8	2 3/32	7 35/64	•
1 5/16	DX142A	7/8	2 3/32	7 35/64	•
1 3/8	DX144A	61/64	2 17/64	7 41/64	•
1 7/16	DX146A	61/64	2 17/64	7 41/64	•
1 1/2	DX148A	61/64	1 17/64	7 41/64	•
1 5/8	DX152A	1 9/64	2 5/8	7 53/64	•
1 11/16	DX154A	1 9/64	2 5/8	7 53/64	•
1 3/4	DX156A	1 7/32	2 13/16	7 29/32	•
1 13/16	DX158A	1 7/32	2 13/16	7 29/32	•
1 7/8	DX160A	1 7/32	2 13/16	7 29/32	•
2	DX164A	1 13/32	3 11/64	11 19/32	•
2 1/16	DX166A	1 13/32	3 11/64	11 19/32	•
2 3/16	DX170A	1 17/32	3 29/64	11 47/64	•
2 1/4	DX172A	1 17/32	3 29/64	11 47/64	•
2 3/8	DX176A	1 21/32	3 23/32	11 55/64	•
2 7/16	DX178A	1 21/32	3 23/32	11 55/64	•
2 1/2	DX180A	1 21/32	3 23/32	11 55/64	•
2 9/16	DX182A	1 51/64	3 63/64	13	•
2 5/8	DX184A	1 51/64	3 63/64	13	•
2 3/4	DX188A	1 59/64	4 17/64	14 17/64	•
2 13/16	DX190A	1 59/64	4 17/64	14 17/64	•
2 15/16	DX194A	2 3/64	4 17/32	14 13/32	•
3	DX196A	2 3/64	4 17/32	14 13/32	•
3 1/8	DX1100A	2 17/64	4 29/32	17 37/64	•
3 3/8	DX1108A	2 17/64	4 29/32	17 37/64	•
3 1/2	DX1112A	2 29/64	5 19/64	17 51/64	•
3 3/4	DX1120A	2 21/32	5 17/32	17 51/64	•
3 7/8	DX1124A	2 21/32	5 17/32	17 57/64	•
4 1/8	DX1132A	2 59/64	6 1/32	18 9/64	•
4 1/4	DX1136A	2 59/64	6 1/32	18 9/64	•
4 1/2	DX1144A	3 5/32	6 25/32	20 1/64	•
4 5/8	DX1148A	3 5/32	6 25/32	20 1/64	•

ASME B107.100



DX158A



WARNING



- Use only moderate force on crowfoot and flarenut wrenches
- Read safety precautions on pages W1 to W4

WRENCHES

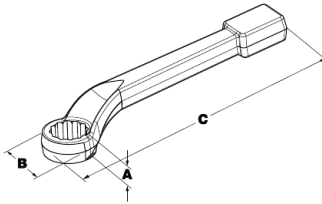
Heavy Duty Striking Wrenches

Flank Drive® Offset Handle Slugging, inches, 12 Point

Set Contains: **HX635**



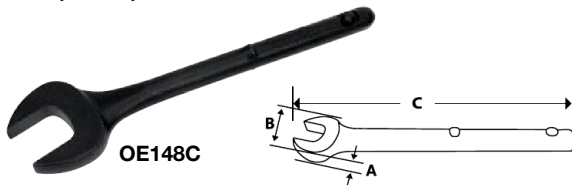
HX400B



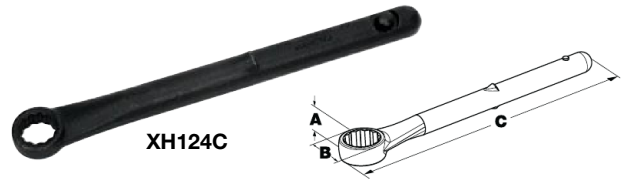
			A	B	C	
1 1/16	27	HX340A	11/16	1 5/8	10	•
1 1/8	-	HX360A	3/4	1 15/16	11	•
1 3/16	30	HX380A	3/4	1 15/16	11	•
1 1/4	32	HX400B	3/4	1 15/16	11	•
1 5/16	33	HX420A	3/4	1 15/16	11	•
1 3/8	35	HX440A	7/8	2 1/8	11 1/2	•
1 7/16	36	HX460A	7/8	2 1/8	11 1/2	•
1 1/2	38	HX480A	1	2 7/16	12	•
1 5/8	41	HX520A	1	2 7/16	12	•
1 11/16	43	HX540A	1 1/8	2 5/8	12 1/2	•
1 3/4	44	HX560A	1 1/8	2 5/8	12 1/2	•
1 13/16	46	HX580A	1 1/8	2 5/8	12 1/2	•
1 7/8	47	HX600A	1 1/4	2 7/8	13	•
1 15/16	49	HX620A	1 1/4	2 7/8	13	•
-	50	HXM50	1 1/4	2 7/8	13	•
2	51	HX640A	1 1/4	2 7/8	13	•
2 1/8	-	HX680A	1 3/8	3 1/4	13 9/16	•
2 3/16	55	HX700A	1 3/8	3 1/4	13 9/16	•
2 1/4	57	HX720A	1 3/8	3 1/4	13 9/16	•
2 5/16	59	HX740A	1 3/8	3 1/4	13 9/16	•
2 3/8	60	HX760A	1 1/2	3 5/8	14 1/8	•
2 1/2	64	HX800A	1 1/2	3 5/8	14 1/8	•
2 9/16	65	HX820A	1 1/2	3 5/8	14 1/8	•
2 5/8	67	HX840A	1 5/8	3 15/16	15	•
2 3/4	70	HX880A	1 5/8	3 15/16	15	•
2 7/8	73	HX920A	1 3/4	4 7/16	16	•
2 15/16	75	HX940A	1 3/4	4 7/16	16	•
3	76	HX960A	1 3/4	4 7/16	16	•
3 1/8	80	HX1000A	1 3/4	4 7/16	16	•
3 3/8	85	HX1080A	2	6 1/4	18 1/4	•
3 1/2	89	HX1120A	2	6 1/4	18 1/4	•
3 3/4	95	HX1200A	2	6 1/4	18 1/4	•
3 7/8	98	HX1240A	2	6 1/4	18 1/4	•
4 1/8	105	HX1320A	2	6 1/4	18 1/4	•
4 1/4	108	HX1360A	2	6 1/4	18 1/4	•

ASME® B107.100

Heavy Duty Tubular Wrenches



OE148C



XH124C

Open End Tubular Wrenches, inches/mm

			A	B	C	Fits Handle No.
7/8	-	OE128C	1/2	1 15/16	10 1/2	13B or 24B
15/16	-	OE130C	1/2	1 15/16	10 1/2	13B or 24B
1	-	OE132C	9/16	2 5/16	11 5/16	13B or 24B
1 1/16	27	OE134C	9/16	2 5/16	11 5/16	13B or 24B
1 1/8	-	OE136C	9/16	2 5/16	11 1/4	13B or 24B
1 1/4	32	OE140C	5/8	2 3/4	12 5/16	13B or 24B
1 5/16	33	OE142C	5/8	2 3/4	12 5/16	13B or 24B
1 3/8	35	OE144B	5/8	2 3/4	12 1/4	13B or 24B
1 7/16	36	OE146C	11/16	3 1/8	13 1/4	13B or 24B
1 1/2	38	OE148C	11/16	3 1/8	13 5/16	13B or 24B

ASME B107.100

Flank Drive Straight Box, inches/mm

			A	B	C	Fits Handle No.
3/4	-	XH124C	1/2	1 1/4	10 13/16	13B or 24B
13/16	-	XH126C	1/2	1 1/4	10 13/16	13B or 24B
7/8	-	XH128C	5/8	1 7/16	10 15/16	13B or 24B
15/16	-	XH130C	5/8	1 7/16	10 15/16	13B or 24B
1	-	XH132C	11/16	1 9/16	11	13B or 24B
1 1/16	27	XH134C	11/16	1 9/16	11	13B or 24B
1 1/8	-	XH136C	11/16	1 11/16	11 1/8	13B or 24B
1 1/4	32	XH140C	3/4	1 15/16	13 1/2	13B or 24B
1 5/16	33	XH142C	3/4	1 15/16	13 1/2	13B or 24B
1 7/16	36	XH146C	7/8	2 3/16	13 5/8	13B or 24B
1 1/2	38	XH148C	7/8	2 3/16	13 5/8	13B or 24B
1 5/8	41	XH152C	15/16	2 3/8	13 3/4	13B or 24B
3 1/8	79	XH1100C	1 3/4	4 15/16	14 7/8	36B

ASME B107.100

Tubular Handles



36B

	A	B	Size, inches
13B	13 1/2	7/8	13
24B	24	7/8	24
36B	36	1 9/64	36

Combination T and L-Shape Wrenches



AWSGM800

Hex, mm

Set Contains:

AWSGM800

mm	Blue Handle	T-Length, mm	Length, mm	
2	AWSGM2	95	152	•
2.5	AWSGM2.5	95	152	•
3	AWSGM3	98	152	•
4	AWSGM4	98	187	•
5	AWSGM5	117	187	•
6	AWSGM6	117	246	•
8	AWSGM8	117	246	•
10	AWSGM10	124	248	•

Set includes storage tray

- Ergonomic, soft grip handle provides comfort during repetitive tasks
- Delivers superior turning power
- Allows maximum pressure to be applied when loosening difficult fasteners with both "T" and "L" applications
- Blades constructed from high strength steel and hardened for durability



AWSG800

Hex, inches

Set Contains:

AWSG800

	Red Handle	T-Length, inches	Length, inches	
3/32	AWSG06	3 7/8	6	•
7/64	AWSG07	3 7/8	6	•
1/8	AWSG08	3 7/8	6	•
9/64	AWSG09	3 7/8	6	•
5/32	AWSG10	3 7/8	7 3/8	•
3/16	AWSG12	4 3/4	7 3/4	•
7/32	AWSG14	4 3/4	7 3/4	•
1/4	AWSG16	4 3/4	9 5/8	•
5/16	AWSG20	4 3/4	9 5/8	
3/8	AWSG24	4 3/4	9 5/8	

Set includes storage tray

- Blade tips are black oxide coated to prevent chipping and to help maintain a secure fastener engagement
- Short blade provides maximum torque for tight quarters
- Long blade promotes quick fastener turning in difficult access situations
- Hole in handle for hanging tool or tether
- Color coded handles identify metric and inch sizes at a glance



AWBSGM800

Ball Hex, mm

Set Contains:

AWBSGM800

mm	Blue Handle	T-Length, mm	Length, mm	
2	AWBSGM2	95	152	•
2.5	AWBSGM2.5	95	152	•
3	AWBSGM3	98	152	•
4	AWBSGM4	98	187	•
5	AWBSGM5	117	187	•
6	AWBSGM6	117	246	•
8	AWBSGM8	117	246	•
10	AWBSGM10	124	248	•

Set includes storage tray



AWBSG800

Ball Hex, inches

Set Contains:

AWBSG800

	Red Handle	T-Length, inches	Length, inches	
3/32	AWBSG06	3 7/8	6	•
7/64	AWBSG07	3 7/8	6	•
1/8	AWBSG08	3 7/8	6	•
9/64	AWBSG09	3 7/8	6	•
5/32	AWBSG10	3 7/8	7 3/8	•
3/16	AWBSG12	4 3/4	7 3/4	•
7/32	AWBSG14	4 3/4	7 3/4	•
1/4	AWBSG16	4 3/4	9 5/8	•
5/16	AWBSG20	4 3/4	9 5/8	
3/8	AWBSG24	4 3/4	9 5/8	

Set includes storage tray



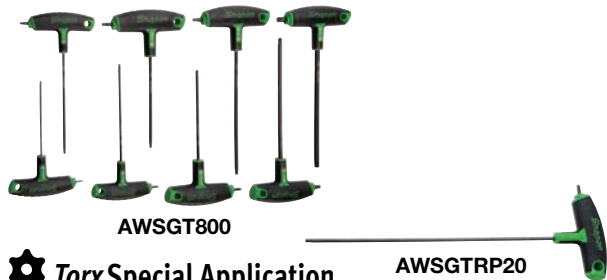
WARNING



- Plastic handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

WRENCHES

Combination T and L-Shape Wrenches



AWSGT800

AWSGTRP20

Torx Special Application

- Extra long T20 tamper resistant Torx
- Access mirrors on Mercedes® vehicles
- Short end also T20 Tamper resistant Torx for tight quarters

#	Green Handle	T-Length, inches	Length, inches
T20	AWSGTRP20	3 7/8	10 1/2



#	Green Handle	T-Length, inches	Length, inches	
T6	AWSGT6	3 7/8	6	
T7	AWSGT7	3 7/8	6	
T8	AWSGT8	3 7/8	6	
T9	AWSGT9	3 7/8	6	
T10	AWSGT10	3 7/8	6	•
T15	AWSGT15	3 7/8	7 3/8	•
T20	AWSGT20	3 7/8	7 3/8	•
T25	AWSGT25	4 3/4	7 5/8	•
T27	AWSGT27	4 3/4	7 5/8	•
T30	AWSGT30	4 3/4	9 5/8	•
T40	AWSGT40	4 3/4	9 5/8	•
T45	AWSGT45	4 3/4	9 3/4	•
T50	AWSGT50	4 3/4	9 3/4	

Set includes storage tray

Set Contains: AWSGT800

T-Shape



AWBMCG1600



AWBCG1600

Ball Hex, mm

mm	Stock No.	Handle	Length, inches	
2	AWBMCG1602	Blue	9	•
2.5	AWBMCG16025	Blue	9	•
3	AWBMCG1603	Blue	9	•
4	AWBMCG1604	Blue	9	•
5	AWBMCG1605	Blue	9	•
6	AWBMCG1606	Blue	9	•
8	AWBMCG1608	Blue	9	•
10	AWBMCG1610	Blue	9	•

Set Contains:

AWBMCG1600

Ball Hex, inches

	Stock No.	Handle	Length, inches	
3/32	AWBCG1606	Red	9	•
7/64	AWBCG1607	Red	9	•
1/8	AWBCG1608	Red	9	•
9/64	AWBCG1609	Red	9	•
5/32	AWBCG1610	Red	9	•
3/16	AWBCG1612	Red	9	•
7/32	AWBCG1614	Red	9	•
1/4	AWBCG1616	Red	9	•
5/16	AWBCG1620	Red	9	•
3/8	AWBCG1624	Red	9	•

Set Contains:

AWBMCG1600



AWMCGR1608

Tamper Resistant, mm

AWMCGR1608 Metric T-Shape Hex Wrench.

- Yamaha® Rhino doors and aftermarket license plate holders with 8 mm tamper proof hex security fasteners
- Permits maximum pressure application when loosening difficult fasteners



#	Green Handle 6" Length	
T7	AWCGT7	
T8	AWCGT8	•
T10	AWCGT10	•
T15	AWCGT15	•
T20	AWCGT20	•
T25	AWCGT25	•
T30	AWCGT30	
T40	AWCGT40	
T45	AWCGT45	

Set Contains:

AWCGT500

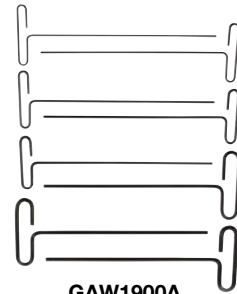
T-Shape



AWMCG1600B



AWCG1600B



GAW1900A

Hex, mm

Set Contains:

AWMCG1600B

mm	Stock No.	Handle	Length, mm	
2	AWMCG1602B	Blue	152	•
2.5	AWMCG16025B	Blue	152	•
3	AWMCG1603B	Blue	152	•
4	AWMCG1604B	Blue	152	•
5	AWMCG1605B	Blue	152	•
6	AWMCG1606B	Blue	152	•
8	AWMCG1608B	Blue	152	•
10	AWMCG1610B	Blue	152	•

Hex, inches

Set Contains:

GAW1900A

AWCG1600B

	Standard Handle 9" Length	Red Handle 6" Length		
3/32	GAW1906	AWCG1606B	•	•
7/64	GAW1907	AWCG1607B	•	•
1/8	GAW1908	AWCG1608B	•	•
9/64	GAW1909	AWCG1609B	•	•
5/32	GAW1910	AWCG1610B	•	•
3/16	GAW1912	AWCG1612B	•	•
7/32	GAW1914	AWCG1614B	•	•
1/4	GAW1916	AWCG1616B	•	•
5/16	GAW1920	AWCG1620B		
3/8	GAW1924	AWCG1624B		

Wrench Stands

AWSTAND Wrench Stand.

- Mounting holes on top and bottom of stand provide many mounting locations
- Another AWSTAND can be added for increased storage options
- Stands can mount to a Slots-N-Dots Plus™ personal work center or lie flat on top of tool box
- Stand holds the following wrench styles:
 - L or T-shaped fractional hex 1/16 to 3/8"
 - L or T-shaped metric hex 2 to 10 mm
 - L or T-shaped Torx® T6 to T50
 - Metric or Torx on one stand
 - Fractional and metric on one stand
 - Metric and fractional ball wrenches

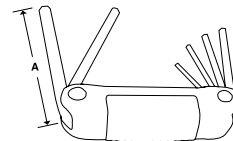


AWSTAND
Tools not included
with AWSTAND

Folding Sets

Hex, mm

mm	AWMEF7K	AWMEF8K	AWMEF6K
	A	A	A
1.5	45.7		
2	50.8	50.8	
2.5	55.9	55.9	
3	61.0	61.0	83.8
4	66.0	66.0	88.9
5	78.7	78.7	96.5
6	83.8	96.5	101.6
7		106.7	
8		121.9	121.9
10			129.5



AWMEF8K



AWMEF6K



WARNING



- Plastic handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

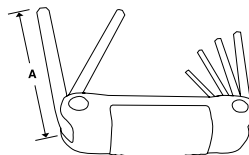
WRENCHES

L-Shaped/Folding Sets

Unique Screw Holding Tip*

Holds fastener to tool for delicate installations

* AWBPH13, AWMBPH9, AWTPH8 sets only



BHM9A



AWMBPH9



BHS13A



AWBPH13



BHS7A



AWBXL13



AWBML9



AWEF6K



AWEF9K

Hex, inches

Hex Size	A
5/32	2.7
3/16	3.3
7/32	3.5
1/4	3.7
5/16	4.8
3/8	5.1

Hex Size	A
.050	1.8
1/16	1.9
5/64	2.0
3/32	2.1
7/64	2.3
1/8	2.4
9/64	2.6
5/32	2.7
3/16	2.9

AWCPEF16K Combination Set.

Set includes

AWEF9K hex set

AWMEF7K metric hex set (p. 129)



AWEFBH9K



AWTEF8K

Ball Hex, inches

Ball Hex Size	A
5/64	2.0
3/32	2.1
7/64	2.3
1/8	2.4
9/64	2.6
5/32	2.7
3/16	2.9
7/32	3.5
1/4	3.7

Torx®

Torx Size	A
T8	2.4
T10	2.7
T15	3.0
T20	3.2
T25	3.4
T27	3.5
T30	3.7
T40	3.9



AWHD8K

Combination

AWHD8K Hex/Torx Set.

Includes two Torx sizes (T27, T40) and six hex sizes (5/32, 3/16, 7/32, 1/4, 5/16 and 3/8"). Fits a wide range of Harley-Davidson® motorcycles.

Ball Hex Sets

Industrial Finish L-Shaped Ball Hex Wrench Sets:

Ball hex allows up to 25° angle entry. Made from high strength steel.

Metric Sets:

BHM9A Metric Ball Hex Set. Set includes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10 mm sizes (9 pcs) (1.5 to 10 mm) in plastic index.

AWMBPH9 Metric Ball Hex Set. Screw holding tip holds fastener to tool for delicate installations. Set includes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10 mm sizes (9 pcs) (1.5 to 10 mm) in plastic index.

AWMBBS9 Metric Stubby Ball Hex Set. Stubby length for access in tight quarters. Set includes 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10 mm sizes (9 pcs) (1.5 to 10 mm) in plastic index.

AWBML9 Metric Extra Long Ball Hex Set. Set includes: 1.5, 2, 2.5, 3, 4, 5, 6, 8 and 10 mm sizes

Standard Sets:

BHS7A Ball Hex Set. Set includes 5/64, 3/32, 7/64, 1/8, 9/64, 5/32 and 3/16" sizes (7 pcs) (5/64 to 3/16") in plastic index.

BHS13A Ball Hex Set. Set includes 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8" sizes (13 pcs) (.050 to 3/8") in plastic index.

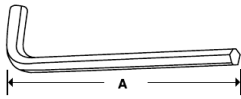
AWBPH13 Ball Hex Set. Screw holding tip holds fastener to tool for delicate installations. Set includes 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8" sizes (13 pcs) (.050 to 3/8") in plastic index.

AWBS13 Stubby Ball Hex Set. Stubby length for access to tight quarters. Set includes 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8" sizes (13 pcs) (.050 to 3/8") in plastic index.

AWBXL13 Extra Long Ball Hex Set. Set includes sizes: .05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8"

WRENCHES

L-Shaped



AWM140DK



AWM110DHK



AW1020DK



AW1015DK



AW1013DK



AW1015DHK

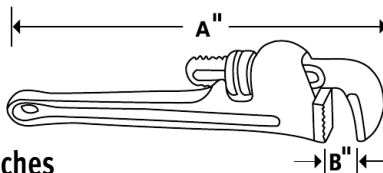
Hex, mm

	Stock No.	Hex, mm	A	Set Contains:			
				AWM140DK	AWM110DK	AWM100DK	
Standard Length	AWM2D	2	47.7	•	•	•	
	AWM2-1/2D	2.5	52.0	•	•	•	
	AWM3D	3	58.6	•	•	•	
	AWM4D	4	65.6	•	•	•	
	AWM5D	5	75.6	•	•	•	
	AWM6D	6	82.2	•	•	•	
	AWM7D	7	92.4	•	•	•	
	AWM8D	8	99.2	•	•	•	
	AWM9D	9	105.1	•	•	•	
	AWM10D	10	111.4	•	•	•	
	AWM12D	12	139.3	•	•	•	
	AWM14D	14	138.8	•			
	AWM17D	17	167.2	•			
AWM19D	19	193.6	•				
Long	AWML1.5D	1.5	77.7				
	AWML2D	2	83.0				
	AWML2.5D	2.5	89.9				
	AWML3D	3	100.0				
	AWML4D	4	107.0				
	AWML5D	5	118.5				
	AWML6D	6	141.0				
	AWML8D	8	161.5				
	AWML10D	10	172.0				
	AWML12D	12	193.6				
	Kit Bag				C1209	C15B	
	Metal Index						BHK11

Hex, Standard Length, inches

Stock No.	Hex, inches	A	Set Contains:			
			AW1020DK	AW1015DK	AW1013DK	AW1015DHK
AW028D	0.028	1 1/4	•	•		•
AW035D	0.035	1 5/16	•	•		•
AW050D	0.050	1 3/4	•	•	•	•
AW2D	1/16	1 3/4	•	•	•	•
AW2-1/2D	5/64	1 7/8	•	•	•	•
AW3D	3/32	2	•	•	•	•
AW3-1/2D	7/64	2 1/8	•	•	•	•
AW4D	1/8	2 1/4	•	•	•	•
AW4-1/2D	9/64	2 3/8	•	•	•	•
AW5D	5/32	2 1/2	•	•	•	•
AW6D	3/16	2 3/4	•	•	•	•
AW7D	7/32	3	•	•	•	•
AW8D	1/4	3 1/4	•	•	•	•
AW10D	5/16	3 3/4	•	•	•	•
AW12D	3/8	4 1/4	•	•	•	•
AW14D	7/16	4 3/4	•			
AW18D	9/16	5 3/4	•			
AW20D	5/8	6 1/4	•			
AW24D	3/4	7 1/4	•			
Kit Bag				C1209	C154	
Metal Index						BHK15

Pipe Wrenches



External Pipe Wrenches

Stock No. Coated Handle	Stock No. Aluminum Handle	A	B Max Opening
PW6C		6	3/4
PW8C		8	1
PW10C	PWA10A	10	1 1/2
PW12C		12	2
PW14C	PWA14A	14	2
PW18C	PWA18A	18	2 1/2
PW24C	PWA24A	24	3
PW36C	PWA36A	36	5



PW10C



PWA10A



WARNING



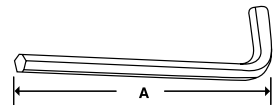
- Do not use cheater bars on handles
- Read safety precautions on pages W1 to W4

WRENCHES

L-Shaped



AWL1010DHK



AWMG9



AWS13

Hex, Long, inches

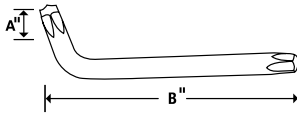
Stock No.	$\frac{11}{16}$	A	Set Contains:	AWL1010DK	AWL1010DHK
AWL3D	3/32	3 1/8	•	•	•
AWL3-1/2D	7/64	3 1/2	•	•	•
AWL4D	1/8	3 3/4	•	•	•
AWL4-1/2D	9/64	4	•	•	•
AWL5D	5/32	4 1/8	•	•	•
AWL6D	3/16	4 1/2	•	•	•
AWL7D	7/32	4 7/8	•	•	•
AWL8D	1/4	5 1/4	•	•	•
AWL10D	5/16	6	•	•	•
AWL12D	3/8	6 3/4	•	•	•
AWL14D	7/16	7 1/2			
AWL16D	1/2	8 1/4			
AWL18D	9/16	9			
AWL20D	5/8	9 3/4			
Kit Bag			C15B		
Metal Index					BHK10

Hex/Gold Finish, mm

Stock No.	mm	Set Contains:	AWMG9
AWMG9-1	1.5	•	•
AWMG9-2	2	•	•
AWMG9-3	2.5	•	•
AWMG9-4	3	•	•
AWMG9-5	4	•	•
AWMG9-6	5	•	•
AWMG9-7	6	•	•
AWMG9-8	8	•	•
AWMG9-9	10	•	•

Hex/Natural Finish, inches

Stock No.	$\frac{11}{16}$	Set Contains:	AWS13
AWS13-1	1/20	•	•
AWS13-2	1/16	•	•
AWS13-3	5/64	•	•
AWS13-4	3/32	•	•
AWS13-5	7/64	•	•
AWS13-6	1/8	•	•
AWS13-7	9/64	•	•
AWS13-8	5/32	•	•
AWS13-9	3/16	•	•
AWS13-10	7/32	•	•
AWS13-11	1/4	•	•
AWS13-12	5/16	•	•
AWS13-13	3/8	•	•



AWT100KA



AWTPH8



Stock No.	#	A	B	Set Contains:	AWT100KA	AWTPH8
AWT8A	T8	.137	1 7/8			
AWT9A	T9	.148	1 7/8			
AWT10A	T10	.162	2	•	•	
AWT15A	T15	.194	2 1/8	•	•	•
AWT20A	T20	.228	2 1/4	•	•	•
AWT25A	T25	.262	2 3/8	•	•	•
AWT27A	T27	.295	2 1/2	•	•	•
AWT30A	T30	.218	2 3/4	•	•	•
AWT40A	T40	.262	3	•	•	•
AWT45A	T45	.430	3 5/8	•	•	•
AWT50A	T50	.348	3 3/4	•	•	•
AWT55A	T55	.442	4 1/4	•	•	•



MS1015KA



Stock No.	A	B	Set Contains:	MS1015KA
MS2A	4	.033	•	•
MS3A	4	.048	•	•
MS4A	6	.060	•	•
MS5A	4	.069	•	•
MS6A	4	.076	•	•
MS7A	6	.072	•	•
MS8A	6	.096	•	•
MS10A	6	.110	•	•
MS16A	6	.144	•	•
MS20A	6	.183	•	•
MS24A	6	.216	•	•
MS28A	6	.251	•	•
MS32A	6	.291	•	•
MS40A	6	.372	•	•
MS48A	6	.454	•	•

Torx/Tamper Resistant

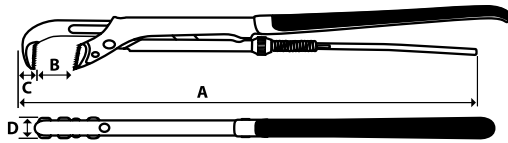
Stock No.	#
AWTR8-1	T9
AWTR8-2	T10
AWTR8-3	T15
AWTR8-4	T20
AWTR8-5	T25
AWTR8-6	T27
AWTR8-7	T30
AWTR8-8	T40



AWTR8

Set includes kit bag

Adjustable/Special Application



PWZ1

Pliers Wrench

Stock No.	A	B	C	D	Weight, lbs
PWZ0	8 3/16	1 1/2	5/16	9/16	1
PWZ1	12 5/8	1 3/4	1/2	3/4	1 5/8
PWZ2	17	2 1/2	5/8	13/16	2 1/2
PWZ3	21 1/2	3 1/2	3/4	1	6 3/8

Pliers Wrench

- Inwardly angled teeth (fine teeth at back of jaw, coarse teeth at front of jaw) for a stronger grip
- Quick adjustment of grip width
- Built-in guard against unthreading
- Soft, warm to the touch, high friction handle surfaces with a strong, stable core

Adjustable



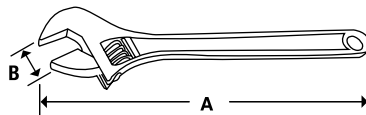
- Adjustable wrenches with serrated jaws feature our Flank Drive® Plus wrenching system for more turning power from an adjustable wrench
- Precision made wrenches feature fractional and metric scales for size reference
- Elastomer handle surface is soft, yet provide a nonslip gripping surface even for greasy and oily hands
- Cushion handle insulates against cold temperatures

Flank Drive Plus Adjustable/Cushion Handles

Stock No.	A inches (mm)	B inches (mm)	Set Contains:
FADH6A	6 (152)	3/4 (19)	•
FADH8A	8 (203)	15/16 (24)	•
FADH10A	10 (254)	1 1/8 (29)	•
FADH12A	12 (304)	1 5/16 (33)	•

ASME® Standard

Set includes storage tray



FADH704A

Adjustable Wrenches

- Opposing fractional and metric quick sizing scales are provided for convenience
- High strength alloy steel machined to exacting specs and precision heat treated for strength and durability
- Nickel-chrome finish helps protect against corrosion and speeds clean up



AD704A

Set Contains:
AD704A

Stock No.	A inches (mm)	B inches (mm)	
AD6A	6 (155)	25/32 (20)	•
AD8A	8 (205)	1 1/16 (27)	•
AD10A	10 (255)	1 3/16 (30)	•
AD12A	12 (305)	1 11/32 (34)	•

ASME B107.100

Set includes storage tray

Wide Mouth Adjustable/Cushion Handle

- Opens larger than standard adjustable wrench
- Longer jaws and slimline design for greater reach
- Metric and fractional scales for quick observation
- Adjustable moving jaw will not fall out, even when at max opening
- Elastomer handle is soft, insulates against cold and provides a nonslip surface
- ADHW6 opens as wide as an 8" adjustable wrench: ADHW8 opens as wide as a 10" adjustable wrench



ADHW8

Stock No.	A inches (mm)	B inches (mm)
ADHW6	6 (152)	1 1/4 (32)
ADHW8	8 (203)	1 1/2 (38)

ASME B107.100



WARNING



- Plastic coated handle does not protect against electric shock
- Do not use cheater bars on handles
- Read safety precautions on pages W1 to W4

WRENCHES

Adjustable (Blue-Point®)



BLPADJ703



BLPADJ404



GAJS30A



BADJC703



BLPADJ404SG



ANADJ8

Adjustable Wrenches

Stock No.	Set Contains:		BLPADJ703		BLPADJ404*	
	A inches (mm)	B inches (mm)				
GAJ4A	4 (108)	1/2 (13)				
GAJ6A	6 (160)	1 (25.4)			•	
GAJ8A	8 (210)	1 1/8 (29)			•	
GAJ10A	10 (260)	1 9/32 (33)			•	
GAJ12A	12 (310)	1 1/2 (38)			•	
GAJ15A	15 (385)	1 19/32 (43)	•			
GAJ18A	18 (450)	2 1/16 (52)	•			
GAJ24A	24 (610)	2 7/16 (62)	•			
GAJS30A*	30 (778)	3 11/32 (85)				

ASME® B107.100

*Set includes storage tray

- Inch and metric scales on fixed jaw indicate wrench opening
- Fixed jaw and handle forged in one piece to ensure maximum strength
- Wrench is balanced to minimize wrist stress
- Hole at handle end for tether or hanging

Composite Handle Adjustable Wrench

Stock No.	Set Contains:		BADJC703	
	A inches	B inches		
BADJC6	6 7/16	1	•	
BADJC8	8 9/16	1 3/16	•	
BADJC10	10 1/2	1 3/8	•	

Set includes storage tray

Adjustable Wrenches/Soft Grip

Stock No.	Set Contains:		BLPADJ404SG	
	A inches (mm)	B inches (mm)		
GAJ6SG	6 (160)	1 (25.4)	•	
GAJ8SG	8 (210)	1 1/8 (29)	•	
GAJ10SG	10 (260)	1 9/32 (32.8)	•	
GAJ12SG	12 (310)	1 1/2 (38)	•	

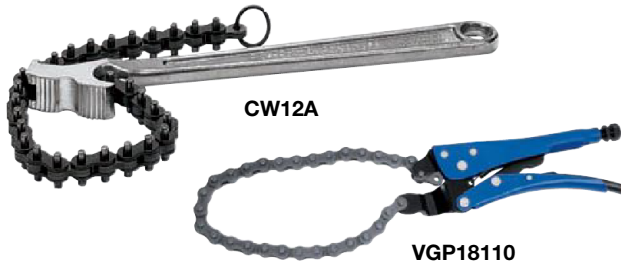
Set includes storage tray

Aluminum (for AN Fittings)

Stock No.	Color	A inches (mm)	B inches (mm)
ANADJ8	Red	8 (203)	AN #10 (1")

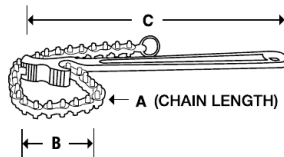
- Securely tighten expensive AN fittings to reduce risk of damage in aircraft, marine and industrial applications as well as for race and show cars
- Machined from aluminum billet to exacting tolerances and made from quality heat treated aluminum

Special Application



CW12A

VGP18110



Chain Wrenches

Stock No.	A	B	C	Replacement Chain
CW12A	16	4	12	CW12A-1
CW15A	19	5	15	CW15A-1
CW24A	23	6	24	CW24A-1

VGP18110 Locking Chain Wrench.

- Wraps around and holds irregular shaped objects like oil filters and mufflers
- Chain capacity: up to 6 9/32" (160 mm)
- Handle length: 9 27/32" (250 mm)

VGP181101 Replacement Chain.

- Replacement chain for V P18110



BLPSTWRKT

Strap Wrenches (Blue-Point®)

BLPSTWR4 Strap Wrench.

- Adjusts to fit any circumference or irregular shape
- Won't scratch or damage surfaces
- Cushioned grip for maximum comfort
- Heavy duty construction for longer life
- 4" max diameter

BLPSTWR6 Strap Wrench.

- Same as BLPSTWR4 except features a 6" max diameter

BLPSTWRKT Strap Wrench Set.

- BLPSTWR4 and BLPSTWR6 (2 pcs)



N6893B

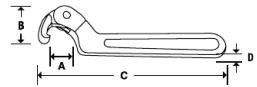
Valve Persuader (Special order only.)

N6893B Valve Persuader Wrench.

- Persuader end provides extra leverage on valve wheels
- Hooks around valve stems and protrudes through spokes
- 15" long



304AHSK



Adjustable Hook Spanners

- Services collars, rings and bearings
- Single jaw and roll pin construction with industrial finish
- Make sure jaw hook is properly positioned when in use

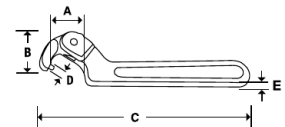
Set Contains: 304AHSK

Stock No.	A	B	C	D	
AHS300B	3/4-2	1/8	6 3/8	11/32	•
AHS301B	1 1/4-3	5/32	8 1/8	13/32	•
AHS304B	2-4 3/4	3/16	11 3/8	15/32	•
AHS307B	4 1/2-6 1/2	1/4	12 1/8	15/32	•

Set shown includes Kit bag



304APSK



Adjustable Pin Spanners

- Removes rings, collars and lock nuts
- Make sure jaw hook is properly aligned when in use

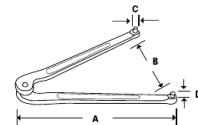
Set Contains: 304APSK

Stock No.	A	B	C	D	E	
APS351B	3/4-2	1/8	6 3/8	1/8	11/32	•
APS357B	1 1/4-3	3/16	8 1/8	3/16	11/32	•
APS363B	2-4 3/4	1/4	11 3/8	1/4	15/32	•
APS366B	4 1/2-6 1/4	1/4	12 1/8	3/8	15/32	•

Set shown includes Kit bag



AFS482B



Adjustable Face Pin Spanners

For servicing seal and packing nuts on hydraulic cylinders.

Stock No.	A	B	C	D
AFS482B	6 3/8	2	3/16	5/32
AFS483B	8 1/4	3	1/4	3/16
AFS484B	10 3/8	4	5/16	1/4



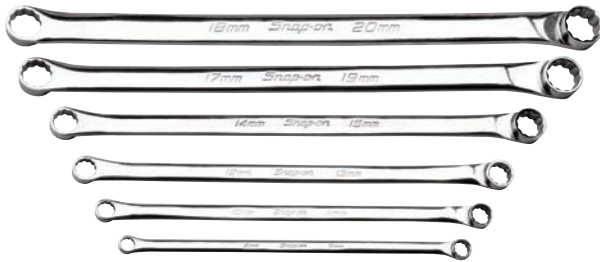
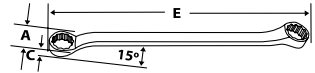
WARNING



- Plastic coated handle does not protect against electric shock
- Do not use cheater bars on handles
- Read safety precautions on pages W1 to W4

HIGH PERFORMANCE

High Performance Flank Drive® Wrenches



XDHM606

Box, 15° Offset Heads, mm

Set Contains:

XDHM606

mm	12	A	C	E	12
8-9	XDHM89	11.6-13.0	5.8-6.2	219.2	•
8-10	XDHM810	11.6-14.4	6.2-7.6	225.6	
10-11	XDHM1011	14.4-15.6	7.6-8.5	246.3	•
10-12	XDHM1012	14.4-17.1	7.6-9.0	264.0	
12-13	XDHM1213	17.1-18.7	9.0-9.0	277.6	•
12-14	XDHM1214	17.1-20.1	9.0-10.2	289.6	
14-15	XDHM1415	20.1-21.5	9.8-10.9	313.1	•
14-17	XDHM1417	20.1-23.7	9.8-11.3	334.7	
15-16	XDHM1516	21.5-22.6	10.9-10.9	334.8	
17-19	XDHM1719	23.7-26.3	11.3-12.1	360.1	•
18-20	XDHM1820	24.9-27.3	12.1-13.6	384.0	•

Set includes storage tray



XDH605

Box, 15° Offset Heads, inches

Set Contains:

XDH605

11	12	12	A	C	E	12
7/32 - 1/4	XDH78A	GXDH78A	11/32 - 3/8	13/64 - 15/64	7 15/64	
1/4 - 5/16	XDH810B	GXDH810B	3/8 - 29/64	1/4 - 1/4	8 3/64	•
5/16 - 3/8	XDH1012B	GXDH1012B	29/64 - 35/64	1/4 - 19/64	8 7/8	
3/8 - 7/16	XDH1214A	GXDH1214A	35/64 - 5/8	19/64 - 11/32	9 11/16	•
7/16 - 1/2	XDH1416A	GXDH1416A	11/32 - 3/4	11/32 - 23/64	10 7/16	
1/2 - 9/16	XDH1618A	GXDH1618A	23/32 - 13/16	23/64 - 13/32	11 7/16	•
5/8 - 3/4	XDH2024A		57/64 - 1 3/64	7/16 - 31/64	13 9/32	•
11/16 - 13/16	XDH2226A		63/64 - 1 9/64	31/64 - 17/32	15 5/32	•

Aerospace Spec. AS954E

Set includes storage tray



GXDH1618A

Box/Short Handle, 0° Offset Heads, mm

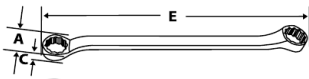


XDHSFM1214

mm	12	A	C	E
8-10	XDHSFM810	12.1-14.9	6.2-7.6	162.9
10-12	XDHSFM1012	14.4-17.1	7.6-9.0	190.5
12-14	XDHSFM1214	17.1-20.1	8.5-10.2	208.8
17-19	XDHSFM1719	23.8-26.3	11.3-12.1	260.3

HIGH PERFORMANCE/SPLINE

Flank Drive® Wrenches



XDHFM606

Box, 0° Offset Heads, mm

Set Contains: XDHFM606

mm	12	A	C	E	12
6-7	XDHFM67	9.1-10.4	5.3-5.8	211.5	
8-9	XDHFM89	11.6-13.0	5.8-6.2	226.1	
8-10	XDHFM810	11.6-14.4	6.2-7.6	232.7	
10-11	XDHFM1011	14.4-15.6	7.6-8.5	253.7	•
10-12	XDHFM1012	14.4-17.1	8.5-9.0	272.2	•
12-13	XDHFM1213	17.1-18.7	9.0-9.0	286.2	•
12-14	XDHFM1214	17.1-20.1	9.0-10.2	298.4	•
13-14	XDHFM1314	18.7-20.1	9.0-9.7	299.2	•
14-15	XDHFM1415	20.1-21.5	9.8-10.9	323.5	•
14-17	XDHFM1417	20.1-23.7	9.8-11.3	345.0	•
15-16	XDHFM1516	21.5-22.6	10.9-10.9	347.5	•
17-19	XDHFM1719	23.8-26.3	11.3-12.1	372.1	•
18-20	XDHFM1820	25.0-27.3	12.1-13.6	395.7	•
21-22	XDHFM2122	28.8-30.6	13.7-14.6	421.2	•
22-24	XDHFM2224	30.6-33.1	14.0-14.9	445.2	•

Set includes storage tray



XDHF605

Box, 0° Offset Heads, inches

Set Contains: XDHF605

mm	12	A	C	E	
1/4 - 5/16	XDHF810	13/32 - 15/32	7/32 - 1/4	8 5/16	•
3/8 - 7/16	XDHF1214	17/32 - 5/8	5/16 - 11/32	10 1/16	•
1/2 - 9/16	XDHF1618	23/32 - 13/16	11/32 - 13/32	11 3/4	•
5/8 - 3/4	XDHF2024	7/8 - 1 1/32	7/16 - 15/32	13 5/8	•
11/16 - 13/16	XDHF2226	31/32 - 1 5/32	15/32 - 17/32	15 5/8	•

Set includes storage tray

Spline Wrenches

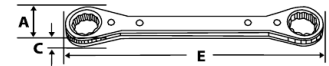
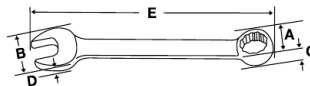
Snap-on® spline wrenching tools have been developed to service high tensile strength spline nuts and bolts widely used on both military and commercial aircraft.

Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool.

Chrome tools comply with Military Spec. MS-33787 and MIL-W-8982. (Industrial finish tools comply with performance specifications and differ only in finish.) The unique spline wrenching configuration can also be used on ordinary 6 and 12 point fasteners with an advantage similar to the Snap-on Flank Drive wrenching system.



OES18B



Combination/Short Handle, inches

Stock No.	A	B	C	D	E
#8	13/32	17/32	1/8	5/32	4 1/2
#10	15/32	21/32	11/64	15/64	4 55/64
#12	17/32	25/32	13/64	17/64	5 7/32
#14	5/8	29/32	15/64	5/16	5 27/64
#16	23/32	1 1/16	1/4	5/16	5 47/64
#18	13/16	1 3/16	17/64	21/64	6 1/32
#20	7/8	1 5/16	9/32	11/32	6 5/16
#22	31/32	1 7/16	19/64	23/64	6 39/64
#24	1 1/16	1 9/16	5/16	3/8	6 29/32



RES2630C

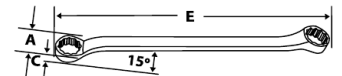
Ratcheting Box, inches

Stock No.	A	C	E	# of Gear Teeth
#8-#10	9/16-5/8	11/32	4 11/16	16-18
#12-#14	3/4-7/16	11/32	6 5/32	20-22
#18-#20	1 1/8-1 1/4	13/32	7 27/32	20-22
#26-#30	1 1/2-1 9/16	7/16	9 25/32	22-22

15° Offset Heads, inches

XDES1618A

Stock No.	A	C	E
#7-#9	11/32-7/16	11/64-13/64	7 1/4
#8-#10	3/8-15/32	3/16-7/32	8 1/16
#12-#14	35/64-41/64	5/16-11/32	9 3/4
#16-#18	3/4-13/16	3/8-3/8	11 7/16
#18-#20	13/16-57/64	25/64-13/32	12 3/8
#22-#24	31/32-1 5/64	7/16-5/64	14 1/4
#26-#30	1 5/32-1 5/16	1/2-9/16	16 3/16
#28-#32	1 1/4-1 7/16	17/32-37/64	17



WARNING



- Do not use cheater bars on handles
- Read safety precautions on pages W1 to W4

SCREWDRIVERS

Power. Speed. Finesse.

Snap-on® Instinct® screwdrivers offer a unique combination of power, comfort and versatility in the most basic of hand tools.

Multi-faceted design — Unique handle geometry provides excellent gripping surface and superior turning force.

Inner core — Maximizes torque between the handle and the blade.

Middle layer — Tough, brightly-colored material provides impact and solvent resistance.

Outer layer — Textured material gives you grip, comfort and torque—even in the greasiest shop environments.

Hard or soft grip handle design — Choose from an ultra-comfortable soft grip or a grease-resistant hard grip.

Seven tip types — Snap-on screwdrivers are available in seven different tip profiles so you can handle a wide variety of fastener types.

It's All About the Details.

Snap-on screwdrivers are built with exclusive features that give you superior durability and performance.

Trans-Drive™ — This unique ratcheting mechanism uses an advanced pawl design based on transmission ring gear principles to deliver outstanding power and torque.

Shanks — Round shanks are made from special alloy steel with few impurities for strength and lasting durability.



Soft Grip Handle Combination Sets

Standard Flat Tip/Phillips® Combination Screwdriver Sets

	Set Contains:	SGDX80BR			SGDX80BO			SGDX80BG			SGDX60BR			SGDX60BO			SGDX60BG		
		Red	Orange	Green	Red	Orange	Green	Red	Orange	Green	Red	Orange	Green	Red	Orange	Green			
Flat Tip Standard	SHD1*	Hard	•	•	•														
	SGD2B	Soft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	SGD4B	Soft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	SGD6B	Soft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	SGD8B	Soft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Phillips Standard	SHDP22IR*	Hard	•	•	•														
	SGDP31IRB	Soft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	SGDP42IRB	Soft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	SGDP63IRB	Soft																	

*Does not include hex bolster.

Soft Grip Handle Colors



SGDX40BR



SGDX40BO



SGDX40BG



SGDX80BR



SGDX60BR



SGDX80BO



SGDX60BO



SGDX80BG



SGDX60BG

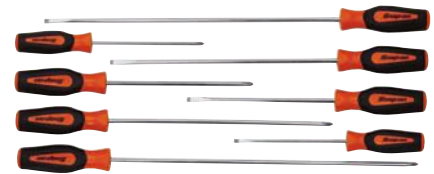
Cabinet, Mini Tip, Extra Long Flat Tip/Phillips Screwdriver Sets

	Set Contains:	SGDXL80BR			SGDXL80BO			SGDXL80BG			SGDX40BR			SGDX40BO			SGDX40BG			SGDXXL20BR			
		Red	Orange	Green	Red	Orange	Green	Red	Orange	Green	Red	Orange	Green	Red	Orange	Green	Red	Orange	Green	Red	Orange	Green	
Flat Tip Cabinet	SGD146B	•	•	•																			
	SGD480B	•	•	•																			
	SGD4120B	•	•	•																			
	SGD4160B	•	•	•																			
Phillips Cabinet	SGDP61B	•	•	•																			
	SGDP82B	•	•	•																			
	SGDP122B	•	•	•																			
	SGDP162B	•	•	•																			
Flat Tip Mini-Tip	SGD304B							•	•	•													
	SGD306B							•	•	•													
Phillips Mini-Tip	SGDP300B							•	•	•													
	SGDP301B							•	•	•													
Extra Long	SGD424B																					•	
	SGDP242B																					•	

Soft Grip Handle Colors



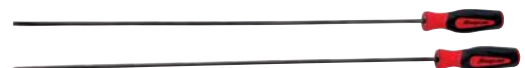
SGDXL80BR



SGDXL80BO



SGDXL80BG



SGDXXL20BR



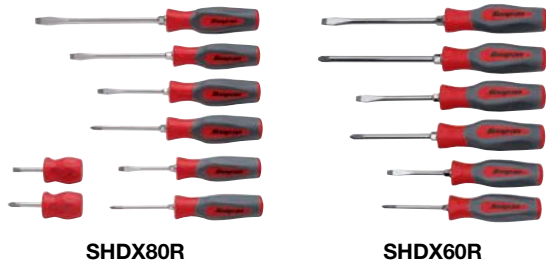
WARNING



- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W4

SCREWDRIVERS

Hard Grip Handle Combination Sets **INSTINCT™**



SHDX80R

SHDX60R



SHDX80O

SHDX60O



SHDX80G

SHDX60G



GSHDX80R



SHDXL80O

Standard Length Flat Tip/Phillips® Combination Screwdriver Sets

Set Contains:	Stock No.	Hard Grip Handle Colors					
		SHDX80R	SHDX80O	SHDX80G	SHDX60R	SHDX60O	SHDX60G
		Red	Orange	Green	Red	Orange	Green
Flat Tip Standard	SHD1*	•	•	•			
	SHD2	•	•	•	•	•	•
	SHD4	•	•	•	•	•	•
	SHD6	•	•	•	•	•	•
	SHD8	•	•	•			
SHD10R							
Phillips Standard	SHD22IR*	•	•	•			
	SHD31IR	•	•	•	•	•	•
	SHD42IR	•	•	•	•	•	•
	SHD62IR						
	SHD63IR				•	•	•
	SHD64IR						

*Does not include hex bolster.

Hard Grip Handle Colors

Red Orange Green

R O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



SHDX40R



SHDX40O



SHDX40G

Industrial Finish Shank, Cabinet and Mini Tip Flat Tip/Phillips Screwdriver Sets

Set Contains:	Stock No.	Hard Grip Handle Colors					
		GSHDX80R	SHDXL80O	SHDX40R	SHDX40O	SHDX40G	
		Red	Orange	Red	Orange	Green	
Flat Tip Industrial Finish Shank	GSHD1*	•					
	GSHD2	•					
	GSHD4	•					
	GSHD6	•					
	GSHD800	•					
Phillips Tip Industrial Finish Shank	GSHDP22IR*	•					
	GSHDP31	•					
	GSHDP42	•					
Flat Tip Cabinet	SHD146		•				
	SHD480		•				
	SHD4120		•				
	SHD4160		•				
Phillips Tip Cabinet	SHDP61		•				
	SHDP82		•				
	SHDP122		•				
	SHDP162		•				
Flat Tip Mini Tip	SHD304			•	•	•	
	SHD306			•	•	•	
Phillips Tip Mini Tip	SHDP300			•	•	•	
	SHDP301			•	•	•	

*Does not include hex bolster.

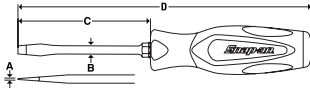
Hard Grip Handle Colors

Red Orange Green

R O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS

Soft Handle Flat Tip



SGD2BR



SGD480BR

Standard

Red	Orange	Green	A	B	C	D
SGD2BR	SGD2BO	SGD2BG	.035	7/32	2 13/16	6 15/16
SGD4BR	SGD4BO	SGD4BG	.040	1/4	3 15/16	8 27/32
SGD6BR	SGD6BO	SGD6BG	.050	5/16	5 15/16	10 27/32
SGD8BR	SGD8BO	SGD8BG	.055	3/8	7 29/32	13 13/32
SGD10BR	SGD10BO	SGD10BG	.055	3/8	9 15/16	15 7/16

Cabinet

Red	Orange	Green	A	B	C	D
SGD146BR	SGD146BO	SGD146BG	.030	3/16	5 13/16	10 1/8
SGD153BR			.050	3/8	2 3/4	8 1/4
SGD480BR	SGD480BO	SGD480BG	.032	1/4	7 15/16	12 3/4
SGD4100BR	SGD4100BO	SGD4100BG	.032	1/4	9 15/16	14 3/4
SGD4120BR	SGD4120BO	SGD4120BG	.032	1/4	11 15/16	16 3/4
SGD4160BR	SGD4160BO	SGD4160BG	.032	1/4	15 15/16	20 3/4



SGD306BR



SGD424BR

Mini Tip

Red	Orange	Green	A	B	C	D
SGD304BR	SGD304BO	SGD304BG	.020	1/8	3	5 7/8
SGD306BR	SGD306BO	SGD306BG	.030	3/16	3	5 7/8

Extra Long

Red	A	B	C	D
SGD424BR	.046	5/16	24	28 3/4

SGDS50BR Flat Tip Screwdriver Set. Includes SGD2BR, SGD4BR and SGD6BR Flat Tip Screwdrivers plus SGD304BR and SGD306BR Miniature Flat Tip Screwdrivers (5 pcs)



SGDS50BR

Hard Handle Flat Tip



SHD6R



GSHD4R

Standard

Red	Orange	Green	A	B	C	D
SHD1R*	SHD10*	SHD1G*	.040	1/4	1 7/8	3 3/4
SHD2R	SHD20	SHD2G	.035	7/32	2 13/16	6 15/16
SHD4R	SHD40	SHD4G	.040	1/4	3 15/16	8 27/32
SHD6R	SHD60	SHD6G	.050	5/16	5 15/16	10 27/32
SHD8R	SHD80	SHD8G	.055	3/8	7 29/32	13 13/32
SHD10R	SHD100	SHD10G	.055	3/8	9 15/16	15 7/16

*Does not include hex bolster.

Industrial Finish Shank

Industrial/Red	A	B	C	D
GSHD1R*	.037	1/4	1 1/2	3 3/4
GSHD2R	.032	7/32	2 7/8	7
GSHD4R	.037	1/4	4	8 7/8
GSHD6R	.046	5/16	6	10 27/32
GSHD8R	.050	3/8	8	13 13/32

*Does not include hex bolster.



SHD304R



SHD41600

Mini Tip

Red	Orange	Green	A	B	C	D
SHD304R	SHD304O	SHD304G	.018	1/8	3	5 7/8
SHD306R	SHD306O	SHD306G	.030	3/16	3	5 7/8

Cabinet

Orange	A	B	C	D
SHD146O	.030	3/16	6	10 1/8
SHD480O	.032	1/4	8	12 3/4
SHD4120O	.032	1/4	12	16 3/4
SHD4160O	.032	1/4	16	20 3/4

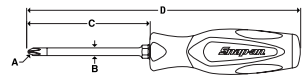


WARNING



- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W4

SCREWDRIVERS



Flat Tip/Pocket and Spark Test



SDD2040

■ Pocket

Stock No.	Type	Description	A	D
SDD2040	Pocket	Screwdriver w/ Pocket Clip	.025	4 3/4
SDD2240*	Pocket	Distributor Screwdriver	.025	4 3/4

*Magnet on handle.



SDD214

■ Spark Test

Stock No.	Type	Description	A	D
SDD214	Spark Test	Screwdriver with Pocket Clip	.025	5 1/8

Soft Handle Phillips® **INSTINCT™**



SGDP42IRBR



SGDP300BR



SGDP50BR



SGDP82BR



SGDP242BR



SGDDP50BR

✦ Standard

Red	Orange	Green	A	B	C	D
SGDP31IRBR	SGDP31IRBO	SGDP31IRBG	#1	3/16	2 31/32	7 1/8
SGDP42IRBR	SGDP42IRBO	SGDP42IRBG	#2	1/4	3 31/32	8 7/8
SGDP63IRBR	SGDP63IRBO	SGDP63IRBG	#3	5/16	5 29/32	10 13/16
SGDP64IRBR	SGDP64IRBO	SGDP64IRBG	#4	3/8	6	11 1/2

✦ Mini Tip

Red	Orange	Green	A	B	C	D
SGDP300BR	SGDP300BO	SGDP300BG	#0	1/8	3	6
SGDP301BR	SGDP301BO	SGDP301BG	#1	3/16	3	6

SGDP50BR Phillips Tip Screwdriver Set.

Includes SGDP31IRBR, SGDP42IRBR and SGDP63IRBR Phillips Tip Screwdrivers plus SGDP300BR and SGDP301BR Miniature Phillips Tip Screwdrivers (5 pcs).

✦ Cabinet Type

Red	Orange	Green	A	B	C	D
SGDP82BR	SGDP82BO	SGDP82BG	#2	1/4	8	12 7/8
SGDP61BR	SGDP61BO	SGDP61BG	#1	3/16	6	10 1/4
SGDP101BR	SGDP101BO	SGDP101BG	#1	3/16	10	14 1/8
SGDP102BR	SGDP102BO	SGDP102BG	#2	1/4	9 3/8	14 1/4
SGDP122BR	SGDP122BO	SGDP122BG	#2	1/4	12	16 3/4
SGDP162BR	SGDP162BO	SGDP162BG	#2	1/4	16	20 3/4

✦ Extra Long

Red	A	B	C	D
SGDP242BR	#2	5/16	24	28 3/4

Diamond Tip

- Diamond particles "bite" into fasteners which minimizes slipping
- Diamond particles are extremely hard for long lasting performance and minimal wear

Set Contains:

Red	A	B	C	D	Blade	
SGDDP31IRBR	#1	.197	3	7 5/32	SSDDP31RB	•
SGDDP42IRBR	#2	.236	4	8 29/32	SSDDP42RB	•
SGDDP61IRBR	#1	.197	6	10 5/32	SSDDP61RB	•
SGDDP62IRBR	#2	.236	6	10 29/32	SSDDP62RB	•
SGDDP63IRBR	#3	.315	5 3/4	10 5/8	SSDDP63RB	•

SGDDP50BR

Hard Handle Phillips

Red	Orange	Green	A	B	C	D
SHDP221RR*	SHDP221RO*	SHDP221RG*	#2	1/4	1 5/8	3 1/2
SHDP311RR	SHDP311RO	SHDP311RG	#1	3/16	2 31/32	7 1/8
SHDP421RR	SHDP421RO	SHDP421RG	#2	1/4	3 31/32	8 7/8
SHDP621RR	SHDP621RO	SHDP621RG	#2	1/4	6	10 13/32
SHDP631RR	SHDP631RO	SHDP631RG	#3	5/16	5 29/32	10 13/16
SHDP641RR	SHDP641RO	SHDP641RG	#4	3/8	6	11 1/2

*Does not include hex bolster.

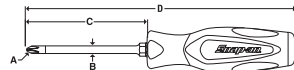
Standard/Industrial Finish Shank

Industrial/Red	A	B	C	D
GSHDP221RR*	#2	1/4	1 1/2	3 3/4
GSHDP31R	#1	3/16	3	7 1/4
GSHDP42R	#2	1/4	4	8 7/8

*Does not include hex bolster.

Cabinet Type

Chrome/Orange	A	B	C	D
SHDP610	#1	3/16	6	10 1/4
SHDP820	#2	1/4	8	12 7/8
SHDP1220	#2	1/4	12	16 3/4
SHDP1620	#2	1/4	16	20 3/4



Hard Handle Phillips® INSTINCT



SHDP631RR



GSHDP31R



SHDP820

Mini Tip

SHDP300R

- See flat tip mini drivers and 4 piece combination Phillips/flat tip sets

Orange	Red	Green	A	B	C	D
SHDP3000	SHDP300R	SHDP300G	#0	1/8	3	5 13/16
SHDP3010	SHDP301R	SHDP301G	#1	3/16	3	5 13/16

Phillips/Instinct® Hard Handle/Electronic Service



SHDP2040

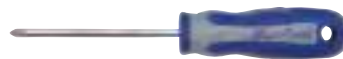
Pocket

Orange	A	D	B	C
SHDP2040	#1	4 7/8	1/8	2

Soft Grip (Blue-Point®)



BSGD7



BSGDP52



BSGD3, BSGD4, BSGD5, BSGD6, BSGD7, BSGDP41, BSGDP52

Flat Tip

Stock No.	Tip Size	Blade Length, inches	Length, inches
BSGD3	1/8	3	6 1/2
BSGD4	7/32	5	9
BSGD5	1/4	6	10 1/4
BSGD6	5/16	7	11 1/4
BSGD7	3/8	8	12 3/8

Standard Phillips

Stock No.	Tip Size	Blade Length, inches	Length, inches
BSGDP41	#1	4	8
BSGDP52	#2	5	9 1/4

Soft Grip Combination Sets

	Stock No.	Set Contains:
Flat Tip	BSGD3	•
	BSGD4	•
	BSGD5	•
	BSGD6	•
	BSGD7	•
	BSGDP41	•
Phillips	BSGDP41	•
	BSGDP52	•



WARNING



- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W4

SCREWDRIVERS

Electronic Service

Electronic Miniature

- Rotating handle mechanism ideal for precise, detailed electronics work
- Blades manufactured to exacting tolerances from special heat treated alloy steel
- Blade tip finish is industrial black



SGDE70



Flat/Phillips®

Set Contains:

SGDE70

Stock No.	A	B	C	D	
SGDE215	1.5	3/32	2	5 3/4	•
SGDE220	2.0	3/32	2	5 3/4	•
SGDE225	2.5	3/32	2	5 3/4	•
SGDE230	3.0	1/8	2	5 3/4	•
SGDEP200	#00	1/8	2	5 3/4	•
SGDEP20	#0	1/8	2	5 3/4	•
SGDEP21	#1	3/16	3	6 1/2	•



SGDEH70



Hex/Miniature

Set Contains:

SGDEH70

Stock No.	A	B	C	D	
SGDEH304	1/16	3/32	2	5 1/2	•
SGDEH306	3/32	1/8	3	6 1/2	•
SGDEH307	7/64	3/16	3	6 1/2	•
SGDEH315	1.5 mm	3/32	2	5 1/2	•
SGDEH320	2.0 mm (5/64)	3/32	2	5 1/2	•
SGDEH325	2.5 mm	3/32	3	6 1/2	•
SGDEH330	3.0 mm	3/16	3	6 1/2	•

Blow molded case included.



SSDEP61C

Electronic Thin Blade

- Recessed ends for fingertip pressure

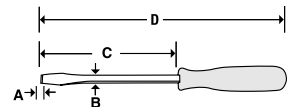
Stock No.	A	B	C	D
SSDE42C	.018 x 1/8	1/8	2	5 5/16
SSDE43C	.018 x 1/8	1/8	3	6 5/16
SSDE44C	.018 x 1/8	1/8	4	7 5/16
SSDE46C	.018 x 1/8	1/8	6	9 5/16
SSDE48C	.018 x 1/8	1/8	8	11 5/16
SSDE63C	.030 x 3/16	3/16	3	9 9/16
SSDE64C	.028 x 3/16	3/16	4	7 9/16
SSDE66C	.030 x 3/16	3/16	6	6 9/16
SSDE68C	.028 x 3/16	3/16	8	11 9/16
SSDE610C	.030 x 3/16	3/16	10	13 9/16
SSDEP30C	#0	1/8	3	6 3/8
SSDEP31C	#1	3/16	3	6 5/8
SSDEP60C	#0	1/8	6	9 3/8
SSDEP61C	#1	3/16	6	9 5/8



SSDE33C

Potentiometer Adjuster

Stock No.	A	B	C	D
SSDE33C	.015 x 3/32	3/32	3	5 9/16



SGDET70



Torx®

Set Contains:

SGDET70

Stock No.	A	B	C	D	
SGDET26	T6	1/8	2	5 1/2	•
SGDET27	T7	1/8	2	5 1/2	•
SGDET28	T8	1/8	2	5 1/2	•
SGDET29	T9	1/8	2	5 1/2	•
SGDET210	T10	1/8	2	5 1/2	•
SGDET215	T15	3/16	3	6 1/2	•
SGDET220	T20	3/16	3	6 1/2	•

Blow molded case included.

Torx® Electronic Miniature/Long

- Extra long shanks for improved reach
- Small diameter shanks provide excellent clearance in tight applications
- Rotating handle mechanism for easy turning, important when working on detailed electronics work
- Bimold handle for a comfortable, nonslip gripping surface



SGDEL40

Set Contains:

Stock No.	A	B	C	D	
SGDEL8		1/8	8	11 3/8	•
SGDEL10		3/16	10	13 3/8	•
SGDELP8	#0	1/8	8	11 3/8	•
SGDELP10	#1	3/16	10	13 3/8	•

Pozidriv® Instinct® Hard Handle

Pozidriv/Hard Instinct Handle

- Walls on tips are less tapered than Phillips® tips
- Tips have wedges for a tight fit on *Pozidriv* fasteners
- *Phillips* tip drivers should not be used on *Pozidriv* fasteners (and vice versa), as they will ride out of the recess and round tool and screw recess corners



SHDZ40R

Set Contains:

Stock No.	A	B	C	D	
SHDZ22R	#2	1/4	1 1/2	3 3/4	
SHDZ31R	#1	3/16	3	7 1/4	•
SHDZ42R	#2	1/4	4	8 7/8	•
SHDZ63R	#3	5/16	6	10 7/8	•
SHDZ84R	#4	3/8	8	13 7/16	•

Torx Tip/Instinct Soft Handle

Torx Standard

- Designed for internal type *Torx* fasteners used in automotive and appliance industries



SGDTX90BR

Set Contains:

Stock No.	A	B	C	D		
SGDTX38BR	T8	3/16	3	7 1/4	•	
SGDTX310BR	T10	3/16	3	7 1/4	•	
SGDTX315BR	T15	3/16	3	7 1/4	•	•
SGDTX320BR	T20	3/16	3	7 1/4	•	•
SGDTX425BR	T25	1/4	4	8 7/8	•	•
SGDTX427BR	T27	1/4	4	8 7/8	•	•
SGDTX430BR	T30	1/4	4	8 7/8	•	•
SGDTX640BR	T40	5/16	6	10 7/8	•	
SGDTX645BR	T45	5/16	6	10 7/8	•	



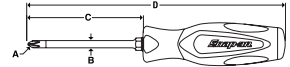
WARNING



- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W4

SCREWDRIVERS

Torx® Tip/Instinct® Soft Handle



SGTX40BR



SGTX40BG



SGTX40BO



SGDTRX50BR

Torx Mini Tip

- Designed for internal type Torx fasteners used in automotive and appliance industries

Stock No.	Color	A	B	C	D	Set Contains:	
						SGTX40BR	SGTX40BG
SGDT308BR	Red	T8	3/16	3	5 7/8	•	•
SGDT308BG	Green	T8	3/16	3	5 7/8		•
SGDT308BO	Orange	T8	3/16	3	5 7/8		•
SGDT310BR	Red	T10	3/16	3	5 7/8	•	
SGDT310BG	Green	T10	3/16	3	5 7/8		•
SGDT310BO	Orange	T10	3/16	3	5 7/8		•
SGDT315BR	Red	T15	3/16	3	5 7/8	•	
SGDT315BG	Green	T15	3/16	3	5 7/8		•
SGDT315BO	Orange	T15	3/16	3	5 7/8		•
SGDT320BR	Red	T20	3/16	3	5 7/8	•	
SGDT320BG	Green	T20	3/16	3	5 7/8		•
SGDT320BO	Orange	T20	3/16	3	5 7/8		•

Tamper Resistant

- Hole in the end of each bit tip fits over center peg in Torx tamper resistant fasteners

Red	A	B	C	D	Set Contains:	
					SGDTRX30BR	SGDTRX50BR
SGDTRX315BR	T15	3/16	3	7 1/4	•	
SGDTRX320BR	T20	3/16	3	7 1/4	•	
SGDTRX425BR	T25	3/16	4	8 7/8	•	
SGDTRX427BR	T27	7/32	4	8 7/8	•	
SGDTRX430BR	T30	1/4	4	8 7/8	•	



SGDTRXL70BR



SGTRXL40BR

Tamper Resistant/Long

- Hole in the end of each bit tip fits over center peg in Torx tamper resistant fasteners

Applications:

VW®/Audi® door and interior trim panels plus headlight assemblies. GM® engine sensors/components and steering column multiswitches.

Red	A	B	C	D	Set Contains:	
					SGDTRX60BR	SGDTRXL70BR
SGDTRX608BR	T8	3/16	6	10	•	
SGDTRX610BR	T10	3/16	6	10	•	
SGDTRX615BR	T15	3/16	6	10	•	
SGDTRX620BR	T20	3/16	6	10	•	
SGDTRX825BR	T25	1/4	8	12 3/4	•	
SGDTRX827BR	T27	1/4	8	12 3/4	•	
SGDTRX830BR	T30	1/4	8	12 3/4	•	

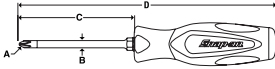
Tamper Resistant/Mini Tip

- Hole in the end of each bit tip fits over center peg in Torx tamper resistant fasteners

Applications:

VW/Audi door and interior trim panels plus headlight assemblies.

Red	A	B	C	D	Set Contains:	
					SGDTRX60BR	SGDTRXL40BR
SGDTR608B	T8	3/16	6	8 7/8	•	
SGDTR610B	T10	3/16	6	8 7/8	•	
SGDTR615B	T15	3/16	6	8 7/8	•	
SGDTR620B	T20	3/16	6	8 7/8	•	



Torx® Tip/Instinct® Hard Handle

Torx Standard

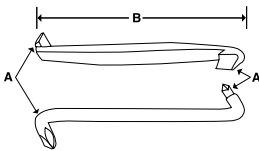
Set Contains: SHDTX900

Stock No.	A	B	C	D	
SHDTX380	T8	3/16	3	7 1/4	•
SHDTX3100	T10	3/16	3	7 1/4	•
SHDTX3150	T15	3/16	3	7 1/4	•
SHDTX3200	T20	3/16	3	7 1/4	•
SHDTX4250	T25	1/4	4	8 7/8	•
SHDTX4270	T27	1/4	4	8 7/8	•
SHDTX4300	T30	1/4	4	8 7/8	•
SHDTX6400	T40	5/16	6	10 7/8	•
SHDTX6450	T45	5/16	6	10 7/8	•



SHDTX900

Special Application



ST50A



S6180



S6189

90° Offset Screwdrivers

Set Contains: ST50A

Stock No.	Tip	A	B	
120SSDP	Phillips	#1 and #2	4 3/4	•
340SSDP	Phillips	#3 and #4	6	•
10SSD	Flat Tip	.040 x 1/4	4	•
20SSD	Flat Tip	.050 x 5/16	4 11/16	•
30SSD	Flat Tip	.060 x 3/8	5 1/2	•

Dzus® Fastener

- For *Dzus* type fasteners used in aircraft and auto racing applications

Stock No.	Tip Thickness, inches	Tip Width, inches	Blade Length, inches	Length, inches
S6180	.05	1/2	2	6 13/32
S6189	.032	19/64	2	5 3/4



SDDD101



SDDD41



CM6551

Reversible Blade Screwdriver and Sets

SDDD101 Reversible Blade Screwdriver Set.

- Includes 4 reversible bits for 8 different tip sizes: 1/4 and 3/16" flat tip, #1 and #2 *Phillips* tip, T15, T20, T25 and T30 *Torx* tip
- Individual 1/4 and 5/16" nut drivers
- ASME® B107
- Durable, classic hard handle is textured for a sure grip

SDDD41 Reversible Blade Screwdriver Set.

- Includes 2 reversible bits for 4 different tip sizes: 9/32 and 13/64" flat tip, #1 and #2 *Phillips* tip
- ASME B107
- Durable, classic hard handle is textured for a sure grip

Miniature Screwdriver/Awl Set

CM6551 Miniature Screwdriver Set.

- Includes 4 blades in the following flat tip sizes: .055, .070, .080 and .100"
- Includes awl and plastic pouch



WARNING



- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W2

Special Application



SGDQ16KT

Pop up Screwdriver and Diamond Bits SGDQ6 Pop up Screwdriver.

- Easy to use, spring loaded shank can adjust to different lengths for clearance as well as compact storage. (Approximately 6 1/2" and 8 1/2" lengths)
- Shank can be fully released to allow use with cordless drills
- Highly engineered collet incorporates both a magnetic and mechanical locking system to securely hold bits
- Rotating collet sleeve for "spinning" when quickly setting/removing fasteners
- INSTINCT® handle provides maximum turning power and greater comfort
- Diamond particles in bits "bite" into fasteners which minimizes stripping
- Diamond bits are extremely hard for long lasting performance and minimal wear
- Can accept all conventional 1/4" hex shank insert and power bits

SGDQ16KT Pop up Screwdriver Kit.

Kit includes: S DQ6 Pop up Screwdriver, SDMD221 through SDMD223 Phillips® Diamond Bits (#1, #2, #3), SDMD213 Flat Tip Diamond Bit, SDMDT10 through SDMDT30 TORX® Diamond Bits (T10 to T30) and SDMD321 through SDMD323 Power Phillips Diamond Bits (#1, #2, #3) in PAKSC062 Nylon Pouch.

PAKSC062 Nylon Pouch.



SDDR40

Square Tip

- Square tip screwdrivers offer excellent fastener engagement
- Tips are precision cut and vapor blasted for optimal grip
- Intended for use on #3 through #12 square tip fasteners

Stock No.	Color	Tip	Set Contains:	
			C	D
SDDR30Y	Yellow	#0	3	6 21/32
SDDR31G	Green	#1	3	6 21/32
SDDR42R	Red	#2	4	8 13/32
SDDR43	Black	#3	4	8 13/32

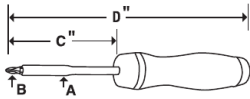
Ratcheting Screwdrivers (Blue-Point®)



BSGDMR6

BSGDMR6 Ratcheting Screwdriver

- 45 tooth ratcheting mechanism ensures precise positioning and movement
- Bits are stored in a bit magazine inside the handle
- Includes 6 1/4" hex bits: flat tip (4.5 and 5.5), Phillips (#1 and #2) plus Torx (T15 and T20)
- Bits are considered a consumable and carry no warranty



Red, orange or green - pick your preference with a complete screwdriver from the Soft Grip Ratcheting Screwdriver System. Perfectly matched combinations of magnetic bit holding shanks and handles means a perfect match to the technician's particular requirements.

All Handles

- Soft, solvent resistant cover material to provide a positive gripping surface
- "Thumbs up" forward/reverse lever for quick directional changes
- High quality stainless steel shanks with knurling
- Contoured thumb stop at base of handle helps user apply maximum pressure to the fastener
- Smooth ratcheting mechanism
- Use with any SGDMRC series interchangeable blades and shanks
- Ergonomic handle shape provides comfort and control (design patent D421,888)
- Comfort crown of handle cap provides low friction surface for palm while turning

Standard Handle

- Cap functions as a bit holder when working in tight quarters
- Handle stores up to 10 bits

5 Position Soft Grip

- Features 0°, 30° and 60° locking positions at the push of a button (U.S. patent 7,213,491 - Ratcheting Tool; U.S. Patent 7,481,135 - Hand Tool with Adjustable Head)
- Designed for right or left hand operation
- Ergonomic handle shape provides comfort and control (design patent D421,888)
- Cap functions as a bit holder for storage of up to 7 bits
- TransDrive™ ratchet mechanism provides twice the strength of previous mechanism (U.S. Patent 7213491)



Ratcheting Soft Grip

	Stock No.	Handle	Shank	Flat Tip Bit	Phillips® Bit	C	D
5-Position	SGDMRCE44	SGDMRCE4	SGDMRC1-10	SDM213B	SDM222IRB	2 5/8	8 1/2
Standard	SGDMRC44B	SGDMRC4	SGDMRC4-40	SDM213B	SDM222IRB	3 7/8	9 3/4
Stubby	SGDMRC11A	SGDMRCA1	SGDMRC1-10	—	—	2	4 1/2

Soft grip ratcheting screwdriver features a nonmagnetic, fixed steel shank plus bit ring retainer, making the SGDR44C ideal for FOD, avionic and electronic applications. Includes one flat tip and one Phillips® Bit.



Handles

Stock No.	Handle	Color	A
SGDMRC1A	Stubby	Red	2 5/8
SGDMRC1AO	Stubby	Orange	2 5/8
SGDMRC1AG	Stubby	Green	2 5/8
SGDMRC4A	Standard	Red	6
SGDMRC4AO	Standard	Orange	6
SGDMRC4AG	Standard	Green	6
SGDMRCE4	5 Position	Red	5 7/8
SGDMRCE4O	5 Position	Orange	5 7/8
SGDMRCE4G	5 Position	Green	5 7/8



SGDMRCE44



SGDMRCE44O



SGDMRCE44G



SGDMRC44B



SGDMRC44BO



SGDMRC44BG



SGDMRC11A



SGDMRC11AO



SGDMRC11AG



SGDMRC1A



SGDMRC4AO



SGDMRCE4G



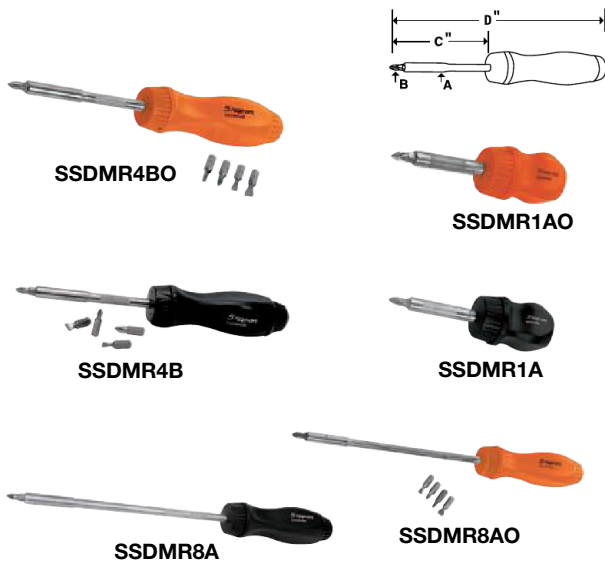
WARNING



- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W4

SCREWDRIVERS

Ratcheting/Hard Handle



Standard Handle

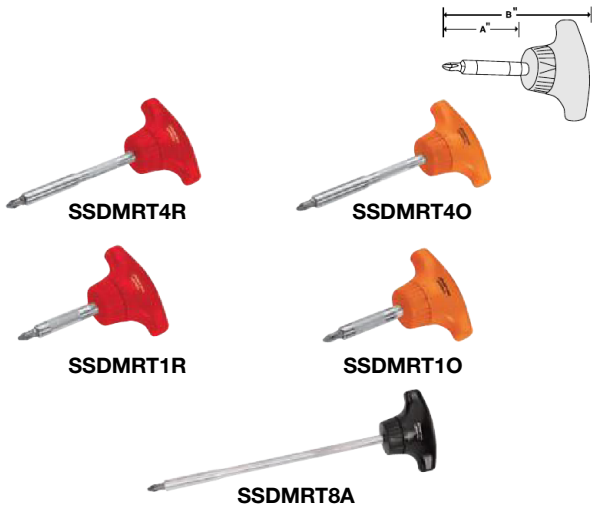
Stock No.	Handle	Color	C	D
SSDMR4B	Standard	Black	3 25/32	8 3/4
SSDMR4BO	Standard	Orange	3 25/32	8 3/4

Stock No.	Handle	Color	C	D
SSDMR1A	Stubby	Black	1 15/16	4 5/16
SSDMR1AO	Stubby	Orange	1 15/16	4 5/16

Includes SDM211B (3/16") and SDM213B (9/32") flat tip bits, SDM221IRB (#1) SDM222IRB (#2) Phillips® ACR® bits and 221, 222 and 223 (#3) Phillips ACR SDM223IRB

RKSDR1 Service Kit. Order for servicing all the above drivers.

Stock No.	Handle	Color	C	D
SSDMR8A	Long	Black	7 7/16	12 15/16
SSDMR8AO	Long	Orange	7 7/16	12 15/16



T-Handle

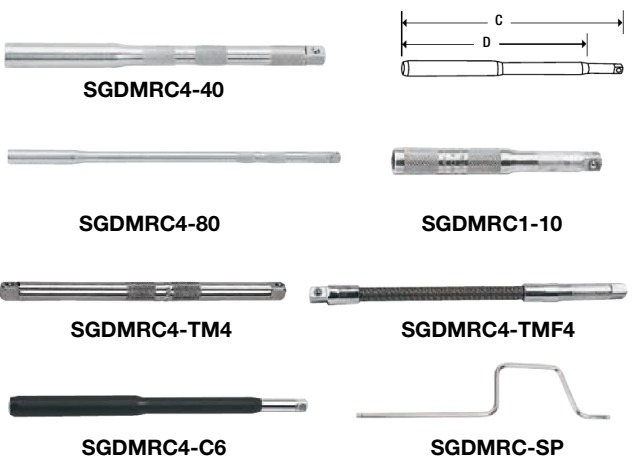
Stock No.	Handle	Color	A	B
SSDMRT4R	Standard	Red	3 7/8	5 27/32
SSDMRT4O	Standard	Orange	3 7/8	5 27/32

Stock No.	Handle	Color	A	B
SSDMRT1R	Stubby	Red	2	3 15/16
SSDMRT1O	Stubby	Orange	2	3 15/16

Stock No.	Handle	Color	A	B
SSDMRT8A	Long	Black	8	10

Includes the following bit: SDM222IRB #2 Phillips ACR

RKRSSDMR4AC Service Kit. Order for servicing all the above drivers.



Interchangeable Shanks

- Use with handles in the soft grip ratcheting screwdriver system
- Neodymium magnet in shank holds bit securely (U.S. Patent RE36,797)
- 1/4" square drive shanks in standard and flexible styles allow attachment of a wide range of 1/4" drive sockets and accessories

Stock No.	Description	C	D
SGDMRC1-10	Magnetic Bit Holder	3 1/4	2
SGDMRC4-40	Magnetic Bit Holder	5	3 3/4
SGDMRC4-80	Magnetic Bit Holder	9	7 3/4
SGDMRC4-TM4	1/4" Sq. Dr. Shank	5	3 3/4
SGDMRC4-TMF4	Flexible 1/4" Sq. Dr. Shank	6 1/4	5
SGDMRC4-C6	Composite (Nonconductive) Magnetic Bit Holder	7 1/4	6
SGDMRC-SP	1/4" Speeder Shank	13	

SGDMRC-SP Speeder Shank.

- Ideal for aviation technicians and other applications where accessibility is limited

Ratcheting/Screwdriver Sets



SGDMRC103A

Soft Grip Ratcheting Screwdriver Sets

- SGDMRC starter sets include standard handle, medium and long magnetic bit holding shanks plus 2 flat tip bits, 2 Phillips® bits and one Torx® bit to meet most basic job requirements

SGDMRC103A Red Ratcheting Screwdriver Set

Stock No.	Description
SGDMRC4	Ratcheting Handle
SGDMRC4-40	Magnetic Shank/Bit Holder
SGDMRC4-80	Magnetic Shank/Bit Holder
SDM211B	3/16" Flat Tip Bit
SDM213B	9/32" Flat Tip Bit
SDM221IRB	#1 Phillips ACR bit
SDM222IRB	#2 Phillips ACR bit
SDMT15D	T15 Torx bit
PB146A	Storage Case

SGDMRC103AO Orange Ratcheting Screwdriver Set.

- Same as SGDMRC103A set except has SGDMRC40 orange ratcheting handle

SGDMRC103AG Green Ratcheting Screwdriver Set.

- Same as SGDMRC103A set except has SGDMRC4AG green ratcheting handle



DHW1

Torx Bit Set

DHW1 Reversible Ratcheting Bit Wrench (Blue-Point®).

- Overall length: 10.75" (273 mm)
- Low head clearance for access to tight spots
- Internal ring in square drive provides more secure bit retention than magnetic models

Stock No.	Description	Size
SDMTAS15	T15 Torx Bit	5/16" Hex Size
SDMTAS20	T20 Torx Bit	5/16" Hex Size
SDMTAS25	T25 Torx Bit	5/16" Hex Size
SDMTAS27	T27 Torx Bit	5/16" Hex Size
SDMTAS30	T30 Torx Bit	5/16" Hex Size
SDMTAS40	T40 Torx Bit	5/16" Hex Size
SDMTAS45	T45 Torx Bit	5/16" Hex Size

SHORTORX Bit Set (Blue-Point®).

Applications:

BMW®: Under dash and sensors in engine compartment.
 Cadillac®: Water pumps; Cadillac CTS, 3.2 L, 2003-2004/ Cadillac Catera 3.0 L, 1997 to 2001: oil drain plug; Ford® Escort, early model: Door hinge bolts; GM®: Fender applications; Jeep® Cherokee, 1997 to 1998: Door hinge bolts; VW®, prior to 1999: Exterior and interior door hinge bolts.



SGDMRC108AO

SGDMRC108AO Orange Master Ratcheting Screwdriver Set

Stock No.	Description
SGDMRC1	Ratcheting Handle
SGDMRC4	Ratcheting Handle
SGDMRC1-10	Magnetic Shank/Bit Holder
SGDMRC4-40	Magnetic Shank/Bit Holder
SGDMRC4-80	Magnetic Shank/Bit Holder
SGDMRC4-TM4	1/4" Drive Shank
SDM400A	Master Bit Kit
PB146A	Storage Case

SGDMRC108A Red Ratcheting Screwdriver Set.

- Same as SGDMRC108AO set except has SGDMRC1A and SGDMRC4A ratcheting handles

SGDMRC108AG Green Ratcheting Screwdriver Set.

- Same as SGDMRC108A set except has SGDMRC1AG and SGDMRC4AG green ratcheting handles



SGDMRC60

Interchangeable Blades

- Nonmagnetic blade is ideal for electronic applications

Stock No.	Description	Size	D	Set Contains:	
SGDMRC4-F7	Flat Tip	7/32	5 1/8	•	
SGDMRC4-F8	Flat Tip	1/4	5 1/8	•	
SGDMRC4-F10	Flat Tip	5/16	5 1/8	•	
SGDMRC4-P1	Phillips Tip	#1	5 1/8	•	
SGDMRC4-P2	Phillips Tip	#2	5 1/8	•	
SGDMRC4-P3	Phillips Tip	#3	5 1/8	•	



SHORTORX



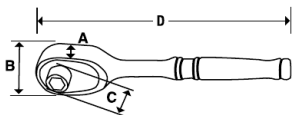
WARNING



- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W4

SCREWDRIVERS

Ratcheting Screwdriver Sets



TM936SET

Magnetic Ratchet and Bit Set

TM936SET Magnetic Bit and Ratchet Set.

- Ideal for accessing fasteners in tight areas
- Ratchet in set features magnetic retention for 1/4" hex bits

Includes:

- SDM211B (3/16")
- SDM213B (9/32") flat tip bits
- SDM221IRB (#1) and SDM222IRB (#2) Phillips® ACR® bits
- SDMT15D (T15) Torx® bit

Stock No.			A	B	C	D
TM936SET	30	12	7/16	27/32	1 3/4	4 1/2

RKRTM936 Ratchet Repair Kit.

Repair kit for TM936 ratchet.

Screw and Nut Starters



SS5A



SSM5A



GA260A



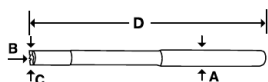
SSM6A



GA199A



SSR7



Aluminum Starters

- Spring loaded steel bits grip screw slot wall to withstand an 8 lb pull
- Bits release automatically when applied torque reaches a certain level

Stock No.	A	B	C	D
SS5A	5/16	Flat Tip	.032 x 9/32	5
SSM3*	5/16	Flat Tip	.032 x 9/32	2 1/2
SSM5A*	5/16	Flat Tip	.032 x 9/32	5 1/4
SSM6A*	9/32	Phillips	#3	5 1/2
GA260A	9/32	Phillips	#2	2 5/8
GA261B	9/32	Phillips	#3	5 5/8
GA199A	9/32	Combination	.032 x 9/32, #2	5 7/8

*Aluminum handle with magnet.

SSR7 Recessed Screw and Nut Starter.

- Round aluminum body with knurled gripping area in center
- Designed to accommodate the most popular sizes of recessed screws: *Torx*, *Socket Head*, *Phillips*, etc.
- Opposite end handles #3, #4, #6, #8 and #10 nuts
- Overall length is 6 3/4"

Ratcheting Bit Wrenches (Blue-Point®)



YA480B



BTWSMPK



BTWOSK

YA480B Right Angle Ratcheting Screwdriver.

Includes one each:

- Flat Tip, #2 *Phillips*, #2 *Pozidriv*® bits

BTWSMPK Miniature Ratcheting Handle Set.

- BTWSM, BTWOS and BTWROS mini ratcheting handles
- SDM213B (9/32") flat tip bit
- SDM213B (9/32") flat tip bit
- SDM221IRB (#1)
- SDM222IRB (#2) *Phillips ACR* bits
- SDMT150D (T15) *Torx* bit

BTWOSK Miniature Ratcheting Handle Set.

- BTWOS mini ratcheting handle
- SDM213B (9/32") flat tip bit
- SDM221IRB (#1)
- SDM222IRB (#2) *Phillips ACR* bits
- SDMT150D (T15) *Torx* bit

BTWS Miniature Ratcheting Handle.

Straight.

BTWOS Miniature Ratcheting Handle.

25 Offset.

BTWROS Miniature Ratcheting Handle.

25 Reverse Offset. Miniature Ratcheting Handle Features:

- 72 tooth ratchet engagement with only 5 movement to engage the next tooth
- 25 offset handles help avoid knuckle injuries
- Magnetic holder keeps bits in place

Nut Drivers



NDDM1070

Hard Handle, mm

Set Contains:

mm	Stock No.	A*	B	
6	NDDM60	7.5	169.1	•
7	NDDM70	9.1	169.1	•
8	NDDM80	9.9	169.1	•
9	NDDM90	9.9	188.0	•
10	NDDM100	13.1	188.0	•
11	NDDM110	13.1	188.0	•
12	NDDM120	13.1	202	•

*Socket Length



NDD1070A

Hard Handle, inches

Set Contains:

TI	Stock No.	Color	A*	B	
1/4	NDD108AR	Red	19/64	6 21/32	•
9/32	NDD109A0	Orange	23/64	6 21/32	•
5/16	NDD110AY	Yellow	23/64	6 21/32	•
11/32	NDD111AG	Green	25/64	6 21/32	•
3/8	NDD112AB	Blue	25/64	7 13/32	•
7/16	NDD114ABR	Brown	33/64	7 13/32	•
1/2	NDD116AR	Red	33/64	7 15/16	•

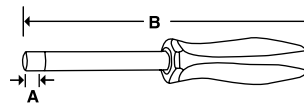
*Socket Length

Locking Nut Drivers (Blue-Point®)

- Tools lock onto hex screws
- Great for hose clamp and other hard to reach applications

Set Contains:

Stock No.	Size	Length		
NDL1410	1/4	10	•	
NDL51610	5/16	10	•	
NDLM610	6 mm	10		•
NDLM710	7 mm	10		•



102NDL10

Ergonomic Soft rip Handle, inches

Set Contains:

TI	Stock No.	Handle Color	Length	
1/2	NDSG12	Red	6 3/8	•
1/4	NDSG14	Red	6 3/8	•
3/8	NDSG38	Red	6 3/8	•
5/16	NDSG516	Red	6 3/8	•
7/16	NDSG716	Red	6 3/8	•
9/32	NDSG932	Red	6 3/8	•



NDSG600

Ergonomic Soft rip Handle, mm

Set Contains:

mm	Stock No.	Handle Color	Length	
7	NDSGM7	Blue	160	•
8	NDSGM8	Blue	160	•
10	NDSGM10	Blue	160	•
12	NDSGM12	Blue	160	•
13	NDSGM13	Blue	160	•
14	NDSGM14	Blue	160	•



NDSGM600



WARNING



- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W4

SCREWDRIVERS

Bit Sets

Master Bit Set (1/4" Hex) SDM400A Master Bit Kit.

- 37 pc set
- 1/4" hex shank bits
- SDM11 magnetic insert bit holder for quick hex bit changes when using cordless drill or screw gun
- TMS8A 1/4" hex magnetic socket for use with 1/4" drive handles
- MB3042 1/4" power hex to square adaptor

Includes all bits below:



SDM400A

	Stock No.	#
Flat Tip Bit	SDM211B	.031 x .187
	SDM212B	.035 x .219
	SDM213B	.038 x .250
	SDM214C	.046 x .312
	SDM215C	.055 x .375
Hex Bit	SDM2704D	1/16
	SDM2705D	5/64
	SDM2706D	3/32
	SDM2707D	7/64
	SDM2708D	1/8
	SDM2709D	9/64
	SDM2710D	5/32
	SDM2712D	3/16
	SDM2714D	7/32
	SDM2716D	1/4
	Phillips ACR Bit	SDM221IRB
SDM222IRB		#2
SDM223IRB		#3
Torx Bit	SDMT8D	T8
	SDMT9D	T9
	SDMT10D	T10
	SDMT15D	T15
	SDMT20D	T20
	SDMT25D	T25
	SDMT27D	T27
	SDMT30D	T30
	SDMT40D	T40
	Pozidriv ACR Bit	SDM251IRC
SDM252IRB		#2
SDM253IRC		#3
Scrufox Bit	BTS0	#0
	BTS1	#1
	BTS2	#2
	BTS3	#3



SDMC8

SDMC8 Kit.

- Case is designed to fit the shank of Snap-on® ratcheting screwdriver allowing the tools to be stored together
- Indexable tray has good bit spacing and pivots up to make bit selection/removal easy

Stock No.	Description
SDMC8P	Bit Set, 8 pc Combo Blk
SDMC8H	Bit Set, 8 pc Hex Blk
SDMC8MH	Bit Set, 8 pc Met Hex Blk
SDMC8T	Bit Set, Torx Blk
SDMC8D	Bit Set, Diamond Combo Blk



SDM32KT

Ball Hex Bit Sets (1/4" Hex)

SDM32KT Ball Hex Set (Blue-Point®).

- 1/4" shank bits for use in difficult access applications where fastener cannot be approached straight on
- 32 pc set

	Stock No.	#
Metric	SDMBMH2702	2 mm
	SDMBMH2702.5	2.5 mm
	SDMBMH2703	3 mm
	SDMBMH2704	4 mm
	SDMBMH2705	5 mm
	SDMBMH2706	6 mm
	SDMBMH2707	7 mm
	SDMBMH2708	8 mm
	SDMBMH2709	9 mm
	SDMBMH2710	10 mm
Fractional	SDMBH2706	3/32
	SDMBH2707	7/64
	SDMBH2708	1/8
	SDMBH2709	9/64
	SDMBH2710	5/32
	SDMBH2712	3/16
	SDMBH2714	7/32
	SDMBH2716	1/4
	SDMBH2720	5/16
	SDMBH2724	3/8
Torx	SDMBT10	T10
	SDMBT15	T15
	SDMBT20	T20
	SDMBT25	T25
	SDMBT27	T27
	SDMBT30	T30
	SDMBT40	T40
	SDMBT45	T45
	SDMBT50	T50
SDMBT55	T55	
Bit Holder	SDM13	—
1/4" Fem Hex to 1/4" Fem Sq Dr. Adaptor	TMS108	—



SDM11KT

SDM11KT Torx Ball Hex Set (Blue-Point).

- 1/4" shank bits for use in difficult access applications where fastener cannot be approached straight on
- 11 pc set
- All components store in case with belt clip

	Stock No.	#
Torx	SDMBT10	T10
	SDMBT15	T15
	SDMBT20	T20
	SDMBT25	T25
	SDMBT27	T27
	SDMBT30	T30
	SDMBT40	T40
	SDMBT45	T45
	SDMBT50	T50
	SDMBT55	T55
Bit Holder	SDM13	—
1/4" Fem Hex to 1/4" Fem Sq Dr Adaptor	TMS108	—



YA52PBSQC

YA52PBSQC Power Bit Set (Blue-Point®).

• Ideal for use with cordless drills and screwdrivers
Includes:

- 49 1/4" hex shank bits in short and long lengths
- 2 hex adaptors
- Quick change chuck and convenient storage case
- Flat tip bits (Short): 5-6, 6-8, 8-10 (2 each), 10-12
- Flat tip bits (Long): 6-8, 8-10, 10-12
- Hex bits (Short): 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 9/32"
- Hex bits (Long): 5/32, 3/16, 7/32"
- Phillips® tip bits (Short): #1, #2 (2 each), #3
- Phillips tip bits (Long): #1, #2, #3
- Tamper resistant Torx® bits (Short and Long): T10, T15, T20, T25, T27, T30, T40
- Square bits (Short and Long): #1, #2, #3
- Clutch bits (Short and Long): 5/32, 3/16",
- Double end Bits: 6-8 x #2 Phillips, 8-10 x #3 Phillips
- Adaptors: 1/4" hex female to 1/4" hex female, 1/4" hex male to 1/4" square male, 1/4" hex Quick Change Chuck.

All bit quantities shown are (1) each unless otherwise indicated.



SDML19KT

SDML19KT Long Power Bit Set.

- Includes an assortment of popular sized bits to cover a wide range of applications
 - Helps avoid costly damage to work surface by eliminating chuck contact
- Includes:
- 4 flat tip bits (2) 3" long, (2) 6" long
 - 6 Phillips bits (3) 2 3/4" long, (3) 6" long
 - 8 Torx bits (4) 2 3/4" long, (4) 6" long
 - TMC109A quick change coupler



SDMEXT19K

SDMEXT19K Adaptor and Bit Set.

- Complete set includes the most popular sizes and lengths of extensions, adaptors and bits
 - 1/4" hex to 1/4" or 3/8" square drives hex to square adaptors for use with sockets (2 and 6" long)
 - Magnetic bit holder for use with insert bits and quick change coupler for use with 1/4" hex power bits
- Includes:
- 3 flat tip
 - 3 Phillips
 - 3 Phillips insert bits
 - 3 Torx power bits

Screwdriver Bits and Accessories

Magnetic Insert Bit Holders

SDM11.

- For quick hex bit changes when used with electric drill or screw gun
- Magnetic and lock ring bit retention
- 2 7/8" long

SDM12.

- Similar to SDM11 but features lock ring retention only
- 1 1/8" long

SSDM10A.

- Pocket sized storage system for SDM series bits
- Includes quick change bit holder

SSDM28.

- Holds (8) 5/16" and (18) 1/4" hex bits
- 5 clips slide on rail to easily access bit
- Magnets on base of holder for attachment to any ferrous metal surface
- Plastic material helps protect finished surface from scratches



TMBS8A



TMUBS8

Magnetic Screwdriver Bit Sockets

• For use with standard 1/4" hex SDM series screwdriver bits

Stock No.	Description
TMBS8A	1/4" hex opening, 1/4" drive.
GTMBS8A	1/4" hex opening, 1/4" drive. Black industrial finish.
TMUBS8	1/4" hex opening, 1/4" drive.
FBSM8A	1/4" hex opening, 3/8" drive.



SSDM10A



FBS8



SSDM28



SDM11



CFSSB8

Screwdriver Bit Sockets

• For use with standard 1/4" hex SDM series screwdriver bits

Stock No.	Description
FBS8	3/8" Drive, Socket for 1/4" Hex Shanks.
FBS9	3/8" Drive, Socket for 5/16" Hex Shanks.
CFSSB8	Insulating universal bit socket. 1/4" hex opening, 3/8" drive.

Screwdriver Bit Holders

TMC109A Quick Change Coupler.

- Use with any 1/4" drive handle
- Spring release shell retracts to accept 1/4" hex power type bits
- Ideal for production situations where positive bit retention is required
- Industrial finish











WARNING



- Do not use screwdrivers as prybars, chisels or punches
- Read safety precautions on pages W1 to W4


SCREWDRIVERS

1/4" Hex Shank Bits

	Stock No.	#
 Flat Tip	SDM211B**	.031" x .187"
	SDM212B**	.035" x .219"
	SDM213B**	.038" x .250"
	SDM214C**	.046" x .312"
	SDM215C**	.055" x .375"
 Phillips	SDM221C	#1
	SDM222ZB	#2
	SDM222CZ*	#2
 Reed & Prince	SDM223C	#3
 Reed & Prince	SDM231A	#2
 Clutch A	SDM242	3/32"
	SDM243	1/8"
	SDM244	5/32"
	SDM245	3/16"
	SDM246	1/4"
	SDM247	5/16"
	SDM247	5/16"
 Clutch G	SDM242G	3/32"
	SDM243G	1/8"
	SDM244G	5/32"
	SDM245G	3/16"
	SDM246G	1/4"
	SDM246G	1/4"
 Hex, inches	SDM2704D**	1/16"
	SDM2705D**	5/64"
	SDM2706D**	3/32"
	SDM2707D**	7/64"
	SDM2708D**	1/8"
	SDM2709D**	9/64"
	SDM2710D**	5/32"
	SDM2712D**	3/16"
	SDM2714D**	7/32"
	SDM2716D**	1/4"
	SDM2720D	5/16"
	SDM2724D	3/8"
	SDMM2702B	2 mm
	SDMM2702.5B	2.5 mm
SDMM2703B	3 mm	
SDMM2704C	4 mm	
SDMM2705C	5 mm	
SDMM2706C	6 mm	
SDMM2708B	8 mm	
SDMM2710B	10 mm	
 Pozidriv	SDM251C**	#1
	SDM252C**	#2
	SDM253C**	#3

* small profile/narrow tip ** included as part of SDM400A Master Bit Set



 **Wobble Bits**
• Give up to an 18° angle of "wobble"

Stock No.	#
SDMTW8A	T8
SDMTW9A	T9
SDMTW10A	T10
SDMTW15A	T15
SDMTW20A	T20
SDMTW25A	T25
SDMTW27A	T27
SDMTW30A	T30
SDMTW40A	T40
SDMW221A	#1
SDMW222A	#2
SDMW223A	#3







 **Phillips ACR® Installer/Remover**

- Anticamout ribs bite into fasteners and help prevent camout

Stock No.	#
SDM221IRB***	#1
SDM222IRB***	#2
SDM223IRB***	#3

*** Part of SDM400A Master Bit Set.

 **Tamper Resistant Torx**

	Stock No.	#
 Torx	SDMT6A	T6
	SDMT7A	T7
	SDMT8D**	T8
	SDMT9D**	T9
	SDMT10D**	T10
	SDMT15D**	T15
	SDMT20D**	T20
	SDMT25D**	T25
	SDMT27D**	T27
	SDMT30D**	T30
SDMT40D**	T40	
 Scrulox	BTS0**	#0
	BTS1**	#1
	BTS2**	#2
	BTS3**	#3
 Tri-Wing	BTW0A	#0
	BTW1A	#1
	BTW2A	#2
	BTW3A	#3
	BTW4A	#4
	BTW5A	#5
	BTW6A	#6
 Double Square	BTSS2	#2

** Part of SDM400A Master Bit Set

- BTS and BTSS Series bits can be used on recessed double square fasteners used on trailer and RV exteriors
- Bit size varies by application



Stock No.	#
SDMTR8	T8
SDMTR10	T10
SDMTR15	T15
SDMTR20	T20
SDMTR25	T25
SDMTR27	T27
SDMTR30	T30
SDMTR40	T40
SDMTR45	T45
SDMTR50	T50

- Bits SDMTR8 through SDMTR40 are all 1/4", bits SDMTR45 and SDMTR50 are 5/16"



 **Pozidriv ACR Installer/Remover**

- Anticamout ribs bite into fasteners and help prevent camout

Stock No.	#
SDM251IRC***	#1
SDM252IRB***	#2
SDM253IRC***	#3

***Part of SDM400A Master Bit Set.

Diamond Tip Insert Bits

- Diamond particles "bite" into fasteners which minimizes slipping
- Diamond particles are extremely hard for long lasting performance and minimal wear

	Stock No.	#
 Phillips®	SDMD221	#1
	SDMD222	#2
	SDMD223	#3
 Flat Tip	SDMD212	.8 mm/5.5 mm
	SDMD213	1 mm/5.5 mm
	SDMD214	1.2 mm/6.5 mm
 Torx®	SDMDT10	T10
	SDMDT15	T15
	SDMDT20	T20
	SDMDT25	T25
	SDMDT30	T30
	SDMDT40	T40

Diamond Tip Power Bits


	Stock No.	#
 Power Bit	SDMD321	#1
	SDMD322	#2
	SDMD323	#3

Mortorq® Bits

- Typically used on aerospace applications
- Low profile head design, high strength torque acceptance and lighter weight

	Stock No.	#
 Mortorq	SDMMT00	#00
	SDMMT0	#0
	SDMMT1	#1
	SDMMT2	#2
	SDMMT3	#3

Insert Bits

	Stock No.	#	Length
 Torx	SDMTA40	T40	1 1/4"
	SDMTA45	T45	1 1/4"
	SDMTA50	T50	1 1/4"
	SDMTA55	T55	1 1/4"



SDMTA55

1/4" Hex Shank Bits (Blue-Point®)

Bit Holder and 1/4" Bits

Stock No.	Description	Size	Stock No.	Description	Size
BLPTMBS1414	Bit Holder (for 1/4" hex bits)	1/4"	BLPTB20TP	Tamper Resistant <i>Torx</i> Bit	T20
BLPTMBS3814	Bit Holder (for 1/4" hex bits)	3/8"	BLPTB25TP	Tamper Resistant <i>Torx</i> Bit	T25
BLPHB18	Hex Bit	1/8"	BLPTB30TP	Tamper Resistant <i>Torx</i> Bit	T30
BLPHB964	Hex Bit	9/64"	BLPFB532	Flat Tip Bit	5/32"
BLPHB532	Hex Bit	5/32"	BLPFB732	Flat Tip Bit	7/32"
BLPHB316	Hex Bit	3/16"	BLPFB932	Flat Tip Bit	9/32"
BLPHB732	Hex Bit	7/32"	BLPFB316	Flat Tip Bit	3/16"
BLPHB14	Hex Bit	1/4"	BLPFB14	Flat Tip Bit	1/4"
BLPHBM3	Metric Hex Bit	3 mm	BLPPB0	<i>Phillips</i> Tip Bit	#0
BLPHBM4	Metric Hex Bit	4 mm	BLPPB1	<i>Phillips</i> Tip Bit	#1
BLPHBM5	Metric Hex Bit	5 mm	BLPPB2	<i>Phillips</i> Tip Bit	#2
BLPHBM6	Metric Hex Bit	6 mm	BLPPB3	<i>Phillips</i> Tip Bit	#3
BLPTB10TP	Tamper Resistant <i>Torx</i> Bit	T10	BLPSQB1	Square Tip Bit	#1
BLPTB15TP	Tamper Resistant <i>Torx</i> Bit	T15	BLPSQB2	Square Tip Bit	#2



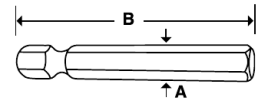
BLPTMBS1414



- Do not use bits with impact driver
- Read safety precautions on pages W1 to W4

SCREWDRIVERS

Power Bits



	Stock No.	#	TT	A	B
 Flat Tip	SDM311B	.026" x .122"	1/4	.187	1 15/16
	SDM312B	.028" x .134"	1/4	.187	1 15/16
	SDM313B	.032" x .154"	1/4	.187	1 15/16
	SDM314B	.034" x .187"	1/4	.187	1 15/16
	SDM315A	.036" x .215"	1/4	.234	1 15/16
	SDM316A	.038" x .250"	1/4	.234	1 15/16
	SDM317A	.042" x .275"	1/4	.234	1 15/16
	SDM318A	.046" x .312"	1/4	.234	1 15/16
	SDM319A	.050" x .360"	1/4	.234	1 15/16
	SDM411B	.026" x .122"	1/4	.234	3
	SDM412B	.028" x .134"	1/4	.187	3
	SDM413B	.032" x .154"	1/4	.187	3
	SDM414A	.034" x .187"	1/4	.187	3
	SDM415A	.036" x .215"	1/4	.250	3
	SDM416A	.038" x .250"	1/4	.234	3
	SDM417A	.042" x .275"	1/4	.234	3
	SDM418A	.046" x .312"	1/4	.234	3
	SDM419A	.050" x .360"	1/4	.234	3
	SDM511A	.026" x .122"	1/4	.187	3 1/2
	SDM512A	.028" x .134"	1/4	.187	3 1/2
	SDM513A	.032" x .154"	1/4	.187	3 1/2
	SDM514A	.034" x .187"	1/4	.187	3 1/2
	SDM515A	.036" x .215"	1/4	.234	3 1/2
	SDM516A	.038" x .250"	1/4	.234	3 1/2
	SDM517A	.042" x .275"	1/4	.234	3 1/2
	SDM518A	.046" x .312"	1/4	.234	3 1/2
	SDM519A	.050" x .360"	1/4	.234	3 1/2
	SDM614	.034" x .187"	1/4	.187	6
SDM616	.038" x .250"	1/4	.234	6	

	Stock No.	#	TT	A	B
 Phillips ACR® Removal Bits	SDM361RA	#1	1/4	.187	1 15/16
	SDM362RA	#2	1/4	.234	1 15/16
	SDM363RA	#3	1/4	.234	1 15/16

	Stock No.	#	TT	A	B
 Phillips ACR® Installer Bits	SDM361IA	#1	1/4	.187	1 15/16
	SDM362IA	#2	1/4	.234	1 15/16
	SDM363IA	#3	1/4	.234	1 15/16



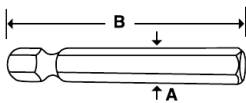
SDM351B

✦ Pozidriv®, inches

Stock No.	#	TT	A	B
SDM351B	#1	1/4	.187	1 15/16
SDM352B	#2	1/4	.234	1 15/16
SDM353B	#3	1/4	.234	1 15/16
SDM451A	#1	1/4	.187	2 3/4
SDM452A	#2	1/4	.234	2 3/4
SDM453A	#3	1/4	.234	2 3/4
SDM551A	#1	1/4	.187	3 1/2
SDM552A	#2	1/4	.234	3 1/2
SDM553A	#3	1/4	.234	3 1/2
SDM651A	#1	1/4	.187	6
SDM652A	#2	1/4	.234	6
SDM653A	#3	1/4	.234	6

	Stock No.	#	TT	A	B
 Phillips®	SDM220A	#0	1/4		1
	SDM320A	#0	1/4	.125	1 15/16
	SDM321B	#1	1/4	.187	1 15/16
	SDM322B	#2	1/4	.234	1 15/16
	SDM323A	#3	1/4	.234	1 15/16
	SDM421B	#1	1/4	.187	2 3/4
	SDM422B	#2	1/4	.234	2 3/4
	SDM423B	#3	1/4	.234	2 3/4
	SDM521A	#1	1/4	.187	3 1/2
	SDM522A	#2	1/4	.234	3 1/2
	SDM523A	#3	1/4	.234	3 1/2
	SDM621A	#1	1/4	.187	6
	SDM622A	#2	1/4	.234	6
	SDM623A	#3	1/4	.234	6
	SDMA421	#1	5/16	.250	3
	SDMA422A	#2	5/16	.250	3
	SDMA423A	#3	5/16	.296	3
	SDMB422A	#2	7/16	.312	3
	SDMB423A	#3	7/16	.312	3
	SDMB424A	#4	7/16	.375	3
	SDMB522A	#2	7/16	.312	4 1/2
	SDMB523A	#3	7/16	.312	4 1/2
	SDMB524A	#4	7/16	.375	4 1/2
	SDMB622	#2	7/16	.312	6
	SDMB623A	#3	7/16	.312	6
	SDMB624A	#4	7/16	.312	6

	Stock No.	#	TT	A	B
 Torx®	SDMT307A	T7	1/4	.140	1 15/16
	SDMT308A	T8	1/4	.140	1 15/16
	SDMT309A	T9	1/4	.140	1 15/16
	SDMT310A	T10	1/4	.140	1 15/16
	SDMT315A	T15	1/4	.140	1 15/16
	SDMT320A	T20	1/4	.203	1 15/16
	SDMT325B	T25	1/4	.203	1 15/16
	SDMT327A	T27	1/4	.203	1 15/16
	SDMT330A	T30	1/4	.250	1 15/16
	SDMT340A	T40	1/4	.250	1 15/16
	SDMT407	T7	1/4	.140	2 3/4
	SDMT408	T8	1/4	.140	2 3/4
	SDMT409	T9	1/4	.140	2 3/4
	SDMT410	T10	1/4	.140	2 3/4
	SDMT415	T15	1/4	.140	2 3/4
	SDMT420	T20	1/4	.203	2 3/4
	SDMT425	T25	1/4	.203	2 3/4
	SDMT427	T27	1/4	.203	2 3/4
	SDMT430	T30	1/4	.250	2 3/4
	SDMT440	T40	1/4	.250	2 3/4
	SDMT507	T7	1/4	.140	3 1/2
	SDMT508	T8	1/4	.140	3 1/2
	SDMT509	T9	1/4	.140	3 1/2
	SDMT510	T10	1/4	.140	3 1/2
	SDMT515	T15	1/4	.140	3 1/2
	SDMT520	T20	1/4	.203	3 1/2
	SDMT525	T25	1/4	.203	3 1/2
	SDMT527	T27	1/4	.203	3 1/2
	SDMT530	T30	1/4	.250	3 1/2
	SDMT540	T40	1/4	.250	3 1/2
	SDMT607	T7	1/4	.140	6
	SDMT608	T8	1/4	.140	6
	SDMT609	T9	1/4	.140	6
	SDMT610	T10	1/4	.156	6
	SDMT615	T15	1/4	.156	6
	SDMT620	T20	1/4	.187	6
	SDMT625	T25	1/4	.234	6
	SDMT627	T27	1/4	.250	6
	SDMT630	T30	1/4	.250	6
	SDMT640	T40	1/4	.250	6



SDMM3702

Hex, mm

Stock No.	mm	A	B
SDMM3702	2	.09	49.3
SDMM37025	2.5	.11	49.3
SDMM3703	3	.13	49.3
SDMM3704	4	.18	49.3
SDMM3705	5	.22	49.3
SDMM3706	6	.27	49.3
SDMM3707	7	.31	49.3
SDMM3708	8	.36	49.3
SDMM3710	10	.45	49.3



Hex, inches

SDM3704

Stock No.			A	B
SDM3704	1/16	1/4	.07	1 15/16
SDM3705	5/64	1/4	.09	1 15/16
SDM3706	3/32	1/4	.11	1 15/16
SDM3707	7/64	1/4	.12	1 15/16
SDM3708	1/8	1/4	.14	1 15/16
SDM3709	9/64	1/4	.16	1 15/16
SDM3710	5/32	1/4	.18	1 15/16
SDM3712	3/16	1/4	.21	1 15/16
SDM3714	7/32	1/4	.25	1 15/16
SDM3716	1/4	1/4	.28	1 15/16
SDMA4708	1/8	5/16	.14	3
SDMA4710	5/32	5/16	.18	3
SDMA4712	3/16	5/16	.21	3
SDMA4714	7/32	5/16	.25	3
SDMA4716	1/4	5/16	.28	3
SDMA4720	5/16	5/16	.36	3
SDMA4724	3/8	5/16	.43	3

Awls, Hooks and Picks



SGASA104BR



SGASA204A



SGASA204AO



SGASA204AG

Awls and Hooks/Soft rip

- Use for scribing, alignment, O-ring removal, piercing holes in leather or fabric and cleaning crevices

Stock No.	Description	Handle Color	Blade Length, inches	Overall Length, inches	Awl and Hook Set
SG4ASABR	Awl	Red	3 3/4	8	•
SG4ASHBR	Hook Tool	Red	3 3/4	8	•
SG5ASABR	Awl	Red	4 3/4	9 5/8	•
SG7ASABR	Awl	Red	5 3/4	10 5/8	•

Set includes storage tray.

Miniature Awls, Hooks and Picks/Soft rip

- Use for scribing, alignment, O-ring removal, piercing holes in leather or fabric and cleaning crevices
- 3 1/8" blade length, 6" long

Description	Red Handle Stock No.	Orange Handle Stock No.	Green Handle Stock No.			
Mini Awl	SG3ASABR	SG3ASABO	SG3ASABG	•	•	•
Mini Hook	SG3ASHBR	SG3ASHBO	SG3ASHBG	•	•	•
Mini Pick, 45°	SG3ASH45BR	SG3ASH45BO	SG3ASH45BG	•	•	•
Mini Pick, 90°	SG3ASH90BR	SG3ASH90BO	SG3ASH90BG	•	•	•

Sets include storage tray.

Long Small Size Awls, Hooks and Picks/Soft rip

- Use for scribing, alignment, O-ring removal, piercing holes in leather or fabric and cleaning crevices
- Blade length 8", 9 23/32" overall length

Description	Red	Orange	Green Handle			
Long Mini Awl	SGL3ASA	SGL3ASAO	SGL3ASAG	•	•	•
Long Mini Hook	SGL3ASH	SGL3ASHO	SGL3ASHG	•	•	•
Long Mini Pick, 45° tip	SGL3ASH45	SGL3ASH45O	SGL3ASH45G	•	•	•
Long Mini Pick, 90° tip	SGL3ASH90	SGL3ASH90O	SGL3ASH90G	•	•	•

Sets include storage tray.



SGLASA204

SGLASA204O



SGLASA204G



WARNING



- Do not use bits with impact driver
- Read safety precautions on pages W1 to W4

SCREWDRIVERS

Awls, Hooks and Picks



SGSR104

Seal Removal Tools/Soft Grip

- Rounded tip with blended radius edge allows easy removal of seals or O-rings while reducing chance of damage to seal or finished surface
- 2 tip configurations and 2 blade lengths handle most seal removal situations
- Industrial black finish blades

Applications:

Transmissions, heater and vacuum hoses, oil pump drive shaft seals, injectors and fuel rail O-rings, inner tie rod rack boot and CV boot removal, fork seals and caliper dust boot assemblies on Harley-Davidson® and other motorcycles and steering racks and pumps

Stock No.	Tip Style	Blade Length, inches	Overall Length, inches	Seal Remover Set
SGSR1	Spoon	5 1/4	8	•
SGSR2	Spoon	2 1/2	5 11/32	•
SGSR3	Contoured	2 1/2	5 11/32	•
SGSR4	Contoured	5 1/4	8	•

Set Contains: SGSR104

Set includes storage tray.

Picks and Scribes (Blue-Point)

YA145 Pick Set.

- Includes knurled handle and 4 screw-in picks with different hook configurations
- Clear plastic pouch



YA145

Stock No.	Overall length, inches (assembled to handle)
YA145-1 Straight Tip Pick	7 1/4
YA145-2 O-Ring, 90° Tip Pick	7 1/4
YA145-3 Hook Tip Pick	7 5/16
YA145-4 Angle Tip Pick	7 3/8

YA149 Pick and Probe Set.

- Includes (5) 5 1/2" single ended and (2) 7" double ended probes made of tempered stainless steel



YA149

Set Contains: YA145 YA149

Description	Stock No.		
Straight Pick	YA145-1	•	
90° Pick	YA145-2	•	
Hook Pick	YA145-3	•	
Angle Pick	YA145-4	•	
Straight Pick	YA149-1		•
90° Curved Pick	YA149-2		•
45° Flat Pick	YA149-3		•
90° Pointed Pick	YA149-4		•
Double End Short Pick	YA149-5		•
Double End Long Pick	YA149-6		•
Half Circle Pick	YA149-7		•

YA338 Scribe.

- One straight end, one end hooked for picking O-rings and small parts



YA338

YA339 Scribe.

- One end is straight, the other has a 90° angle for detail work around small objects



YA339



SH6ASA

Awl/Hard Grip

Stock No.	Blade Length, inches	Overall Length, inches
SH6ASA	4 3/4	6 5/8



PSLR4

PSLR6

Picks and Scribes/Extra Long (Blue-Point®)

- Use to separate wires, remove small fuses and O-rings, retrieve washers and loose parts too small to pick up with fingers or to mark metal or plastic surfaces
- Heavy duty shank diameter is 0.02" thicker than standard picks for added durability and extended tool life
- Each pick is 9 3/4" (247.7 mm) long

Set Contains: PSLR4 PSLR6

Description	Stock No.		
Hook Pick	PSLR4-1	•	•
90° Hook Pick	PSLR4-2	•	•
Straight Pick	PSLR4-3	•	•
Complex Pick	PSLR4-4	•	•
Combo Pick	PSLR4-5		•
Double Angle Pick	PSLR4-6		•

PSLR4 Extra Long Pick Set. Includes PSLR4-1 to PSLR4-4 (4 pcs) in vinyl storage pouch.

PSLR6 Extra Long Pick Set. Includes PSLR4-1 to PSLR4-6 (6 pcs) in vinyl storage pouch.



PSLR4LT

Picks and Scribes/Extra Long/Lighted (Blue-Point)

- LED lighted hook and pick set allows easier viewing in dark and hard to reach areas
- Made of durable carbon heat treated steel
- Ergonomic soft grip contoured handle
- Each pick measures 9-3/4 inches long (247.7 mm)
- Push button LED switch on end of handle
- Each pick requires (3) LR41 batteries (included). Replacement battery P/N RSND384392PK (1 battery)

Set Contains: PSLR4LT

Description	Stock No.		
Hook Pick	PSLR4LT-1	•	
90° Hook Pick	PSLR4LT-2	•	
Straight Pick	PSLR4LT-3	•	
Complex Pick	PSLR4LT-4	•	

Heavy Duty/Striking Crown Handle

- Durable crown handle offers protection from off center hammer strikes
- Handle is 10 3/8" long for a comfortable, secure grip (long handle ensures that two hands can fit for high leverage applications)
- Cylindrical design with taper allows user to find a comfortable grip regardless of hand size
- 3/4" square bar manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- High leverage flared tip (1 1/8") with precision ground edge
- Handle resists extreme temperatures



SPBH48R

Stock No	Handle Color	Sq. Shank, inches	Tip Width, inches	Length, inches
SPBH30R	Red	3/4	1 1/8	30
SPBH30O	Orange	3/4	1 1/8	30
SPBH30G	Green	3/4	1 1/8	30
SPBH48R	Red	3/4	1 1/8	48
SPBH48O	Orange	3/4	1 1/8	48
SPBH48G	Green	3/4	1 1/8	48
SPBH54R	Red	3/4	1 1/8	54
SPBH54O	Orange	3/4	1 1/8	54
SPBH54G	Green	3/4	1 1/8	54

Standard Duty/Striking Handle

- Ergonomic shape and contour handle matched to blade length for optimum leverage
- Blade extends through handle and makes contact with end cap to provide solid striking force
- Metal end cap allows hammer striking while reducing chance of damage to handle
- High leverage design with smooth radius head provides maximum leverage when lifting and pulling back
- Blade manufactured from special alloy steel, precision forged and heat treated for strength and durability
- Industrial finish to protect against corrosion



SPBS704R

Stock No.	Color	Sq. Shank, inches	Tip Width, inches	Length, inches	Set Contains:			
					SPBS704	SPBS704R	SPBS704O	SPBS704G
SPBS8	Black	1/4	7/16	8	•			
SPBS8R	Red	1/4	7/16	8		•		
SPBS8O	Orange	1/4	7/16	8			•	
SPBS8G	Green	1/4	7/16	8				•
SPBS12	Black	3/8	5/8	12	•			
SPBS12R	Red	3/8	5/8	12		•		
SPBS12O	Orange	3/8	5/8	12			•	
SPBS12G	Green	3/8	5/8	12				•
SPBS18	Black	7/16	23/32	18	•			
SPBS18R	Red	7/16	23/32	18		•		
SPBS18O	Orange	7/16	23/32	18			•	
SPBS18G	Green	7/16	23/32	18				•
SPBS24	Black	7/16	13/16	24	•			
SPBS24R	Red	7/16	13/16	24		•		
SPBS24O	Orange	7/16	13/16	24			•	
SPBS24G	Green	7/16	13/16	24				•
SPBS36	Black	5/8	1 1/8	36 5/8				
SPBS36R	Red	5/8	1 1/8	36 5/8				
SPBS36O	Orange	5/8	1 1/8	36 5/8				
SPBS36G	Green	5/8	1 1/8	36 5/8				
SPBS42R	Red	5/8	1 1/8	42 1/4				
SPBS42O	Orange	5/8	1 1/8	42 1/4				

Standard Pry Bar Handle Colors



Black **Red** **Orange** **Green**
 No Suffix R O G
 ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS



WARNING



• Read safety precautions on pages W1 to W4

PRYBARS

Prybars



SPDC18R



MPBS11400

Striking/40° Offset Blade

Stock No.	Handle Length, Inches	Exposed Bar Length, Inches	Sq. Shank Inches	Tip Width, Inches	Tip Type
MPBS11400	5 1/2	5 1/2	3/8	3/8	Straight

MPBS11400 Prybar/Brake Tool.

- Strong 3/8" square alloy steel bar with straight tip
- 11" total length with 40° offset ensures access into tight wheel wells
- Large, comfortable, high visibility orange handle with striker cap allows good grip versus small, hard to hold brake adjustment tools
- Ideal for general prybar applications



MPBS703

Striking/Straight Blade

Set Contains: MPBS703

Stock No	Sq. Shank, inches	Tip Width, inches	Length, inches	
MPBS12	3/8	5/8	12	•
MPBS24	7/16	13/16	24	•
MPBS36	5/8	1 1/8	36 5/8	•



PBN500



PBN1

Demolition Chisels/Crown Handle

- Exclusive crown handle offers protection from off center hammer strikes
- Handle provides a comfortable secure grip in a variety of environments
- Engineered composite handle offers excellent temperature resistance and bar retention

Stock No.	Handle Color	Hex Shank, inches	Tip Width, Inches	Length, inches
SPDC18R	Red	3/4	1 1/8 Double Edge	18
SPDC18G	Green	3/4	1 1/8 Double Edge	18
SPDC18O	Orange	3/4	1 1/8 Double Edge	18



PBMP36A



PBMP703A

Multiposition

- Each prybar features 17 incremental angles of 15° to provide great flexibility
- High leverage design with smooth radius head provides maximum leverage when lifting
- Manufactured from special alloy steel, precision forged and heat treated for strength and durability
- Industrial finish helps protect against corrosion

Set Contains: PBMP703A

Stock No.	Tip Width, Inches	Length, Inches	
PBMP8A	1/2	8	•
PBMP12A	5/8	12	•
PBMP16A	5/8	16	•
PBMP24A	1	24	
PBMP36A	1	36	

Nonmarring Prybars

- Made from tough, reinforced nylon
- Ideal for removing clips, fasteners, molding or gaskets from interior/exterior applications
- Will not damage delicate surfaces unlike metal removal tools
- Lightweight and resistant to most automotive fluids
- Block end allows use with hammer

Set Contains: PBN500

Stock No.	Length	Tip Width	Tip Profile	
PBN1	6 3/4	5/8	Narrow Wedge	•
PBN2	6 3/4	15/16	Wide Wedge	•
PBN3	6 3/4	7/8	Narrow Fork	•
PBN5	6 3/4	1 3/16	Wide Fork	•
PBN7	6 3/4	1 3/8	Flat Fork	•



NPB124B

Wrecking Bar (Blue-Point®)

- Slotted claw on “gooseneck” end and a chisel configuration on opposite end

Stock No.	Sq. Stock, inches	Length, inches
NPB124B	3/4	24



3260B

Slate Bar (Blue-Point)

Stock No.	Sq. Stock, inches	Edge, inches	Length, inches
3260B	1	1/2	60



2430C

BLPPB704

Pinch Bars (Blue-Point)

- Pinch bar has a tapered point on one end and a chisel type edge on the other

Stock No.	Sq. Stock, inches	Edge, inches	Length, inches
1412A	1/2	5/8	14
1658C	1/2	5/8	16
2420A	3/4	15/16	20
2430C	3/4	5/8	30
2438C	3/4	7/8	38
2842C	7/8	1	42

BLPPB704 Prybar Set. Includes 1412A (14") and 2420A (20") Pinch Bars, 7031A Close Quarter Bar (16") plus BPPC1878 Flat Chisel (18") (page 184).



UB222PK

Utility Bars (Blue-Point)

UB222PK Miniature Utility Bar.

- 5 3/8" length
- Pack of 10

Prybar Rack

KR294AAPV Hang-On Prybar Rack.

- Hang up to 4 prybars or long tools with handles
- Notched angle plate keeps tools from shifting
- Suspend from roll cab or tool chest with 1/4" or more lip



KR294APV



PBS704

650

Prybars

- “Rolling head” acts as fulcrum and provides leverage
- Pointed end is useful in many aligning applications

Stock No.	Sq. Stock, inches	Length, inches	Set Contains:
650	5/16	6	•
1250	7/16	12	•
1650	9/16	16	•
2050	11/16	20	•



7030A

Close Quarter Bars (Blue-Point)

- Powerful leverage where space is at a premium
- Ideal for aligning molds

Stock No.	Sq. Stock, inches	Tip Width, inches	Length, inches
7030A	3/8	7/16	9
7031A	1/2	9/16	16
7032	5/8	3/4	18



7035

Die Setter Bars (Blue-Point)

- Designed for separating, scraping or prying

Stock No.	Sq. Stock, inches	Tip Width, inches	Length, inches
7035	5/8	7/16	18
7037	3/4	9/16	30



PBHC48

PBHG48

Heavy Duty

- Bars feature a rubber grip that eliminates contact with rust and damaged surfaces, provides a secure gripping surface under a wide range of conditions and protects the bar from damage during transit
- rip offers a non slip surface that provides a secure gripping surface/leverage, when hands are wet, sweaty or oil covered

Stock No.	Tip Style	Weight, lbs.	Radius Curves, inches	Length, inches	Diameter, inches
PBHG48	1 1/2" Offset Chisel, 2 1/4" Offset Claw	9.5	5 1/8	48	1 Hex
PBHC48	1 1/8" Straight Chisel, 2" Offset Chisel	11.25		48	1 Hex
PBHC60	1 1/8" Straight Chisel, 2" Offset Chisel	14.25		60	1 Hex

PBHC1 - 48" Replaceable rubber grip.



WARNING



• Read safety precautions on pages W1 to W4

PLIERS

Control, Comfort, Power and Durability are Built In.

All of our pliers and cutters undergo a precision manufacturing process to give you the quality you expect in Snap-on® tools.

Alloy steel Snap-on uses its own special alloy steel in every set of pliers and cutters.

Cold-forged process Increased strength from top to bottom.

Joints Positioned close to the cutting edge, making it much easier to cut heavy wire with less user fatigue.

Talon Grip™ Series

Diamond serrated jaws provide a better grip and increased pulling power.



Ramped tips provide stronger jaws and increased accessibility.

Longer contoured handle with new joint location provides higher leverage and increased comfort.

Rounded jaw edges minimize nicks to wire when making loops or bends.

PowerEdge™ Geometry

Tapered blades increase power at the joint to cut thicker wire and provide finesse at the tip for thinner wire.

Slight gap close to joint allows tips to meet perfectly and keeps tips from wearing prematurely during power cuts.

After thousands of cuts through hardened music wire, cutting edges remain aligned and still provide clean and easy cuts.

More cutting surface close to the joint for power cuts.





PL300CF



PLR300



PL400B



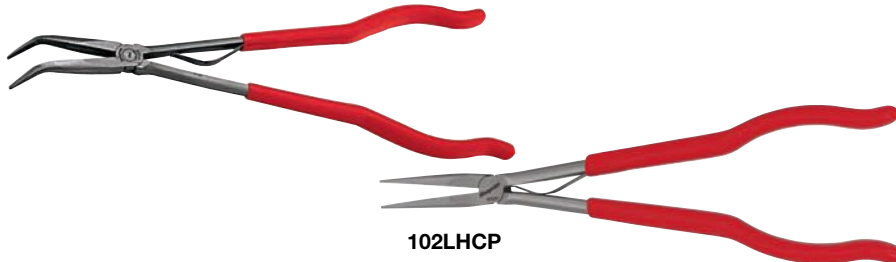
PL6711A



PL803A



PL403A



102LHCP

Pliers and Cutters Sets

Stock No.	Description	Set Contains:										
		PL300CF	PLR300	PL400B	PL6711A	PL803A	PL403A	102LHCP	PowerEdge™	Talon Grip™	Long Reach	
96CF	Needle Nose Pliers	•		•	•						•	
97CCP	Needle Nose Pliers		•		•							
915CP	Needle Nose Pliers							•				•
415CP	Needle Nose Pliers, 35° Bent Nose							•				•
911BCP	Needle Nose Pliers				•							•
47CF	Combination Slip Joint Pliers	•		•			•				•	
44ACP	Combination Slip Joint Pliers							•				
46ACP	Combination Slip Joint Pliers							•				
91ACP	Adjustable Joint Pliers			•								
57AHL	Lineman's Pliers		•									
86CF	Diagonal Cutters		•			•			•			
87CF	Diagonal Cutters	•		•					•			
184CCP	Diagonal Cutters					•			•			

See product details on following pages

Sets include storage tray



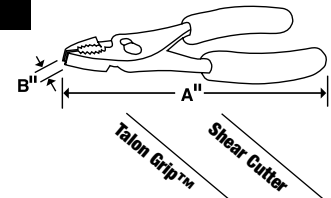
WARNING



- Plastic coated handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

PLIERS

Combination/Lineman's/Adjustable Joint



46ACP



47CF



137CF



HL138ACP



5ACP



57AHLF



AWP45



AWP65



AWP120



AWP160



91ACP



CHN480

Combination Slip Joint Pliers

- Slip joints for adjustable jaw width

Stock No.	Description	Length, inches (A)	Jaw Thickness, inches (B)		
44ACP	Combination Slip Joint	4 1/2	15/64		
46ACP	Combination Slip Joint	6 7/16	23/64		
47CF*	Combination Slip Joint	8 1/4	7/16	•	
49ACP	Combination Slip Joint	9 1/4	1/2		
137CF*	Heavy Duty Combination Slip Joint	8 3/16	27/64	•	•

*Third position gives a wider jaw spread for tough to get a hold of jobs

Special Purpose Pliers

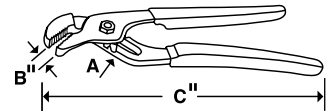
- High Leverage Combination Pliers requires 1/4 the effort normally needed for cutting/gripping
- Midget Pliers with serrated jaws are ideal for extremely small work

Stock No.	Description	Length, inches (A)	Jaw Thickness, inches (B)
HL138ACP	High Leverage Combination	7 7/8	1 1/16
5ACP	Midget Pliers	4 3/4	1/4

Lineman's Pliers

- Machined cutter heads for perfectly matched blades
- Induction hardened head for extra strength and durability
- ripper teeth behind the head can be a useful crushing area

Stock No.	Description	Length, inches (A)	Jaw Thickness, inches (B)
57AHLF	Lineman s Pliers	7 3/8	1/2
59AHLF	Lineman s Pliers	9 1/4	1/2



Tongue and Groove Pliers

- Special tongue and groove design that assures nonslip jaw action
- Unique fastener system inhibits side to side jaw wobble for added strength and smoother operation

Set Contains:

Stock No.	Jaw Type	Max. Jaw Positions (A)	Parallel Opening, inches (B)	Length, inches (C)	
AWP45	Straight Serrated	3	1/2	4 3/4	•
AWP65	Straight Serrated	5	7/8	7	•
AWP120	Straight Serrated	7	2 3/16	12 3/4	•
AWP160	Straight Serrated	8	3 13/16	16 3/4	•
CHN410*	Parrot	5	1 1/2	10 1/8	

*(Blue-Point®)

Set shown includes storage tray



CHN410

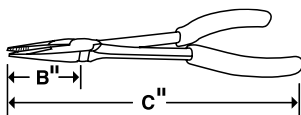
Standard Pliers

- Specially hardened jaw teeth provide long life and a solid grip on work objects
- Vinyl covered handles for a secure, comfortable grip

Stock No.	Finish	Max. Jaw Positions (A)	Parallel Opening, inches (B)	Length, inches (C)
91ACP	Industrial	5	1 3/8	9 1/4
CHN480*	Nickel-Chrome	11	5 1/2	20

*(Blue-Point)

Needle Nose/Long Reach/Special Purpose



Needle Nose Pliers

- Rounded jaw edges minimize nicks to wire when making loops or bends
- Jaw tips are perfectly aligned and feature machined teeth for precise gripping strength with positive control

Stock No.	Description	Jaw Length, inches (B)	Length, inches (C)	
95BCP	Standard	1 11/16	6	
96CF	Standard	2 1/4	8	•
196CF*	With Cutter	2 1/4	8	•
196NCF*	With Pin Puller, Cutter and Fastener Turning Jaw	2 1/4	8	•
97CCP	Long, Slim Jaw	3 3/16	8	
597CCP	Pin Gripping Jaws - Matched Parallel and Cross Grooves	3 3/16	7 15/16	

*Rated to cut .049" diameter music wire

Talon Grip™

Long Reach Pliers

- Long, slim jaws and flush riveted joints for increased reach into recessed areas
- Ideal for electric and electronic work, holding pins or small components

Stock No.	Description	Jaw Length, inches (B)	Length, inches (C)
911BCP	Long Handle	3 3/16	11
915CP	Long Handle	3 1/2	14 1/2
415CP	Long Handle / 35° Bent Nose	2 7/8	14 5/16
411BCP	35° Bent	2 7/8	10 7/8

Special Purpose Pliers

- Bent Nose Pliers - Angled jaws for better access to hard to reach areas
- Pistol Grip - Angled handle for access to hard to reach areas
- Duck Bill - Specially designed for electronics work

	Stock No.	Description	Jaw Length, inches (B)	Length, inches (C)
Bent	497CCP	90° Angle	2 5/8	6 5/8
	490BCP*	90° Bent	1 7/8	9 3/4
	408ACP	35° Mini Bent	1 1/2	7 7/8
Straight	908ACP	Mini	1 5/8	8 1/8
Pistol Grip	612AEP	Pistol Grip	1 3/8	9 3/4
	912AEP	Pistol Grip	2 1/8	10 5/8
Duck Bill	609ACP	3/8" Jaw Width	1 3/8	9 1/4
	61ACP	15/32" Jaw Width	1 5/16	7 3/4



95BCP



96CF



196CF



196NCF



97CCP



597CCP



911BCP



915CP



415CP



411BCP



497CCP



490BCP



408ACP



908ACP



612AEP



609ACP



912AEP



61ACP



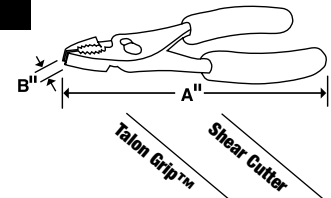
WARNING



- Plastic coated handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

PLIERS

Combination/Lineman's/Adjustable Joint



46ACP



47CF



137CF



HL138ACP



5ACP



57AHLF



AWP45



AWP65



AWP120



AWP160



91ACP



CHN480

Combination Slip Joint Pliers

- Slip joints for adjustable jaw width

Stock No.	Description	Length, inches (A)	Jaw Thickness, inches (B)		
44ACP	Combination Slip Joint	4 1/2	15/64		
46ACP	Combination Slip Joint	6 7/16	23/64		
47CF*	Combination Slip Joint	8 1/4	7/16	•	
49ACP	Combination Slip Joint	9 1/4	1/2		
137CF*	Heavy Duty Combination Slip Joint	8 3/16	27/64	•	•

*Third position gives a wider jaw spread for tough to get a hold of jobs

Special Purpose Pliers

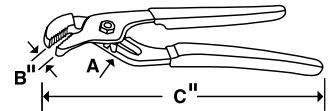
- High Leverage Combination Pliers requires 1/4 the effort normally needed for cutting/gripping
- Midget Pliers with serrated jaws are ideal for extremely small work

Stock No.	Description	Length, inches (A)	Jaw Thickness, inches (B)
HL138ACP	High Leverage Combination	7 7/8	1 1/16
5ACP	Midget Pliers	4 3/4	1/4

Lineman's Pliers

- Machined cutter heads for perfectly matched blades
- Induction hardened head for extra strength and durability
- ripper teeth behind the head can be a useful crushing area

Stock No.	Description	Length, inches (A)	Jaw Thickness, inches (B)
57AHLF	Lineman's Pliers	7 3/8	1/2
59AHLF	Lineman's Pliers	9 1/4	1/2



Tongue and Groove Pliers

- Special tongue and groove design that assures nonslip jaw action
- Unique fastener system inhibits side to side jaw wobble for added strength and smoother operation

Set Contains:

AWP40A

Stock No.	Jaw Type	Max. Jaw Positions (A)	Parallel Opening, inches (B)	Length, inches (C)	
AWP45	Straight Serrated	3	1/2	4 3/4	•
AWP65	Straight Serrated	5	7/8	7	•
AWP120	Straight Serrated	7	2 3/16	12 3/4	•
AWP160	Straight Serrated	8	3 13/16	16 3/4	•
CHN410*	Parrot	5	1 1/2	10 1/8	

*(Blue-Point®)

Set shown includes storage tray



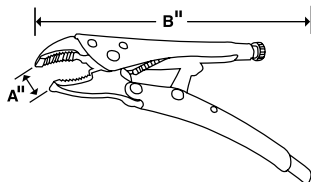
CHN410

Standard Pliers

- Specially hardened jaw teeth provide long life and a solid grip on work objects
- Vinyl covered handles for a secure, comfortable grip

Stock No.	Finish	Max. Jaw Positions (A)	Parallel Opening, inches (B)	Length, inches (C)
91ACP	Industrial	5	1 3/8	9 1/4
CHN480*	Nickel-Chrome	11	5 1/2	20

*(Blue-Point)



LP Series

- Spring loaded release lever allows quick “no-pinch” release
- Locking nut secures jaw opening for repeat jobs
- Larger jaw capacity to hold larger objects
- Jaws feature greater surface area and broader teeth for more secure gripping



LP404

Set Contains: LP404

Stock No.	Description	Jaw Capacity, inches (A)	Length, inches (B)		
LP5SLIM	Thin Curved Jaw	1 5/32	5		
LP7SLIM	Thin Curved Jaw	1 5/8	7		
LP5WR	Curved Jaw w/cutter	1 5/32	5	•	
LP6LN	Long Nose	2 1/8	6	•	
LP7WR	Curved Jaw w/cutter	1 5/8	7	•	
LP10WR	Curved Jaw w/cutter	2 7/16	10	•	
LP7R	Straight Jaw	1 5/8	7		
LP10R	Straight Jaw	2 7/16	10		
LP10LN	Long Nose	2 3/4	10		
LP10GRV	10" Grooved Joint Locking Pliers	1 5/8	10		



LP5SLIM



LP7SLIM



LP6LN



LP10WR



LP10GRV



A V groove houses round objects, preventing lateral movement.

LP5SLIM, LP7SLIM Locking Pliers.

- Use for removal of socket style sway bar links
- Thinner jaws fit between stabilizer bar and stabilizer link to allow a socket to be used for nut removal
- LP7SLIM Applications: 2002-2004 Dodge® Caravans, Chrysler® Town and Country and any other vehicles with nongreaseable sway bar links

LP10GRV Grooved Jaw Locking Pliers.

- Longitudinal V groove section provides 3 points of contact preventing lateral movement while working
- Specially tapered groove means the larger the work piece, the larger the groove section that holds it
- Convex tooth section of mobile jaw pushes flat work pieces against the large, flat fixed jaw for tighter clamping
- Recessed area of mobile jaw allows angled objects to be held and clears small obstacles
- Serrated milled teeth provide a positive grip on different shaped objects



BLP404



BSGLP404

Locking Pliers (Blue-Point®)

- Made from high grade, heat treated steel alloys, the hardened precision ground jaws “lock” onto work pieces that are tough to hold
- Adjusting screws ensure fine adjustments for precise gripping
- Soft grip series improves comfort while resisting damage from oil and grease

Set Contains: BSGLP404 BLP404

Stock No.	Description	Grip Style	Jaw Capacity, inches (A)	Length, inches (B)		
BLP5	Curved Jaw	Standard	1.125	5	•	
BLP7	Curved Jaw	Standard	1.625	7	•	
BLP10	Curved Jaw	Standard	1.875	10	•	
BLP6LN	Long Nose	Standard	2.25	6	•	
BSGLP5	Curved Jaw	Soft	1.125	5	•	
BSGLP7	Curved Jaw	Soft	1.625	7	•	
BSGLP10	Curved Jaw	Soft	1.875	10	•	
BSGLP6LN	Long Nose	Soft	2.25	6	•	



BLP7



BSGLP6LN



WARNING



- Plastic coated handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

PLIERS

Retaining Ring

0 Jaw Angle Series



SRPC4700

45 Jaw Angle Series

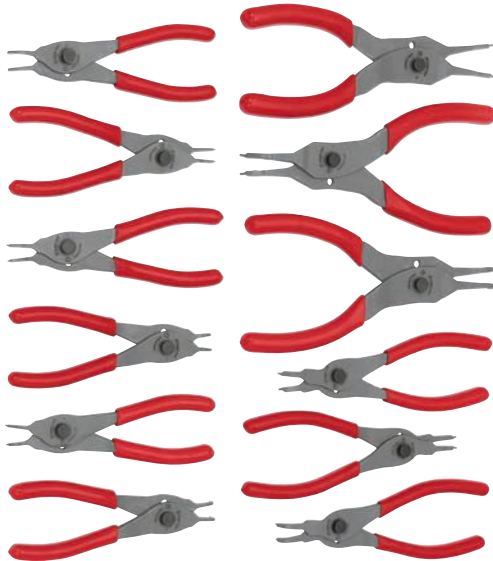


SRPC3845

90 Jaw Angle Series



SRPC3890



SRPC112

Fixed Tip/Convertible, Forged Pliers

- Longer 45° and 90° jaws make it easier to access hard to reach snap ring
- Pivot screw converts from internal to external
- Wide cushion grip provides more comfort and control

Stock No.	Length, inches	Ring Size Range, inches	Jaw Angle	Tip Diameter, inches	Set Contains:		
					SRPC112	SRPC107	SRPC105
SRPC3800	6 7/16	1/8 - 1	0	.038	•	•	•
SRPC4700	6 7/16	3/16 - 1 3/8	0	.047	•	•	•
SRPC7000	7 7/16	7/16 - 2	0	.070	•	•	•
SRPC9000A	8 3/4	1 1/2 - 3 1/2	0	.090	•		
SRPC3845	6 7/16	1/8 - 1	45	.038	•		
SRPC4745	6 7/16	3/16 - 1 3/8	45	.047	•		
SRPC7045	7 7/16	7/16 - 2	45	.070	•	•	
SRPC9045A	8 3/4	1 1/2 - 3 1/2	45	.090	•	•	
SRPC3890	6 7/16	1/8 - 1	90	.038	•		•
SRPC4790	6 1/2	3/16 - 1 3/8	90	.047	•		
SRPC7090	7 1/2	7/16 - 2	90	.070	•	•	•
SRPC9090A	8 3/4	1 1/2 - 3 1/2	90	.090	•	•	

ASME®/ANSI® B107.500

Sets shown include storage tray



PRH406

Fixed Tip/Convertible Pliers

Unique dial feature eliminates the need to take apart pliers when changing from internal to external.

Stock No.	Length, inches	Ring Size Range, inches	Jaw Angle	Tip Diameter, inches	Set Contains:
					PRH406
PRH12	5 3/4	1/8 - 1	18°	.038	•
PRH32	6	5/16 - 1 3/8	18°	.047	•
PRH34	7 1/2	7/16 - 2	18°	.070	•
PRH129	5 3/4	1/8 - 1	90°	.038	•
PRH329	5 7/8	5/16 - 1 3/8	90°	.047	•
PRH349	7 1/2	7/16 - 2	90°	.070	•

ASME/ANSI B107.500

Sets shown include storage tray

Retaining Ring (Blue-Point®)



PR36



PRH502A



PRH503



PR50A



PRH57A



PR8



PR7



PR54

Interchangeable Tip/Convertible Pliers

Internal	External	Length, inches	Ring Size Range, inches	Tip Kit Included	Tip Sizes Included inches/Degree	Optional Kits	Optional Tip Sizes	Set Contains:				
								PR36	PRH502A	PRH503	PR50A	
PR37		6 1/4	3/8 - 2	PR5 (For PR36 only)	2 pair each in PR36 set: .047" 0°, .070" 0°, .047" 45°, .039" 90°	PR5	.047" 0°, .070" 0°, .047" 45°, .039" 90°	•				
	PR38	6 1/4	1/4 - 2			PR5	.047" 0°, .070" 0°, .047" 45°, .039" 90°	•				
PRH56A (Convertible)		6 3/8	Internal 1/4 - 1 External 1/8 - 1	PRH56A-1	1 pair each: .023" 0°, .036" 0°, .047" 0°, .036" 90°, .047" 90°				•	•		
PRH57A (Convertible)		8	Internal 3/8 - 2 External 1/4 - 2	PRH57A-1	1 pair each: .036" 0°, .047" 0°, .070" 0°, .036" 90°, .047" 90°				•	•		
PRC65A (Convertible)		10	Internal 1 13/64 - 4 External 1 1/3 - 4	PRC65A-1	1 pair each: .090", .108", .120" (15° and 90°)					•		
PR51		9 1/2	2 7/16 - 4	PR502	.108", 15°	PR501	.108", 0°					•
				PR503	.108", 45°	PR504	.108", 90°					
	PR52	9 1/2	1 1/2 - 3 11/32	PR507	.120", 45°	PR505	.120", 0°					•
				PR508	.120", 90°	PR506	.120", 15°					
PR7		15 11/16	3 1/16 - 6 1/4	PR7-1	.120", 0°	PR7-2	.120", 45°					
						PR7-3	.120", 90°					
	PR8	15 11/16	3 1/16 - 6 1/4	PR7-1	.120", 0°	PR7-2	.120", 45°					
						PR7-3	.120", 90°					
PR54		29	6 1/2 - 10	PR54-1	.150", 0°	PR54-2	.150", 45°					
						PR54-3	.150", 90°					
	PR53	19	6 1/2 - 10	PR53-1	.170", 0°	PR53-2	.170", 45°					
						PR53-3	.170", 90°					

PR36 Set includes PR5 tip kit. Individual PR37 and PR38 units do not include tips and require PR5 tip kit.
 PR51 and PR52 work with tip kits PR501 through PR508
 PRH503-1 Replacement Case for PRH503



WARNING



- Plastic coated handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

PLIERS

Electronic Service



E700BCG



E703BCG



E704BCG



E708BCG



E712BCG



E713BCG



E715BCG



E718BCG



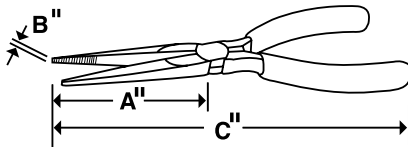
E721BCG



E770BCG



E790BCG



- Spring jaw opening
- Cutter models have a small hole at the base of the blades to relieve pressure on the cutting edges
- Innovative cushion grip handles result in a very comfortable, yet durable handle grip

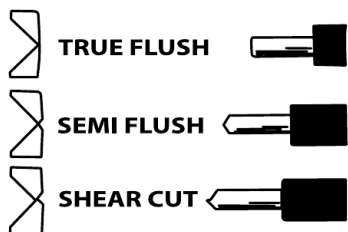
Snap-on manufactured pliers with plastisol or cushion grip handles meet the electrostatic discharge (ESD) specifications in MIL-B-81705B, IS-5, and NFPA-56A.

E Series Pliers

Stock No.	Description	Jaw Length, inches (A)	Tip Width, inches (B)	Length, inches (C)
E700BCG	Round Wire Looper Jaws Taper from $\frac{3}{16}$ to $\frac{1}{32}$ "	1	$\frac{1}{16}$	$6 \frac{1}{8}$
E703BCG	Long Serrated Jaws	$2 \frac{3}{16}$	$\frac{1}{16}$	$6 \frac{9}{16}$
E704BCG	Angled (45°) Serrated Jaws	$2 \frac{1}{4}$	$\frac{1}{16}$	$6 \frac{5}{8}$
E708BCG	Short Nonserrated Jaws	$\frac{13}{16}$	$\frac{1}{16}$	$5 \frac{15}{16}$
E712BCG	Serrated Jaws	$1 \frac{11}{16}$	$\frac{1}{16}$	$6 \frac{1}{8}$
E713BCG	Short Serrated Jaws	$\frac{7}{8}$	$\frac{1}{16}$	$4 \frac{5}{8}$
E715BCG	Extra Slim Serrated Jaws	$1 \frac{3}{16}$	$\frac{1}{16}$	$5 \frac{1}{8}$
E718BCG	Curved (70°) Serrated Jaws	$1 \frac{1}{8}$	$\frac{1}{16}$	$5 \frac{9}{16}$
E721BCG	Extra Slim Nonserrated Jaws	$1 \frac{23}{32}$	$\frac{1}{16}$	$6 \frac{7}{8}$
E770BCG	Needle Thin Serrated Jaws	$1 \frac{1}{8}$	$\frac{1}{32}$	5
E790BCG	Flat Nose Nonserrated Jaws	1	$\frac{1}{16}$	$6 \frac{1}{8}$

Pliers in this chart use the E74X1 Coil Replacement Spring.

Electronic Service Cutters



TRUE FLUSH



True Flush ground blades cut wire ends flat and allow protruding wire ends to be trimmed flush.

SEMI FLUSH

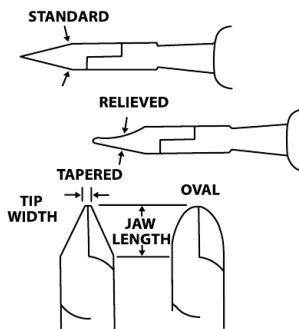


Semi Flush ground blades cut slightly pointed wire ends and can be used where an exact flush cut is not required.

SHEAR CUT



Shear Cut ground blades (on standard cutters) are designed for general cutting with less hand pressure and extended blade life.



Head Shapes Always select a cutter with the largest head that will meet your requirement. The oval head design has more material behind the cutting edges and gives the longest tool life.



E706BCG



E707BCG



E709BCG



E710BCG



E711BCG



E719BCG



E740BCG



E742BCG

Cutters (E Series)

Stock No.	Cut	Head Style	Cutting Capacity	Tip Width, inches	Cutting Edge Length, inches	Length, inches
E706BCG	True Flush	End Cut	AWG #19	1/16	15/32	5 7/8
E707BCG	True Flush	Tapered	AWG #17	1/16	7/16	4 3/8
E709BCG	True Flush	Tapered	AWG #17	1/16	7/16	4 7/16
E710BCG*	True Flush	Tapered	AWG #12	3/32	11/16	5 3/16
E711BCG	Semi Flush	Tapered	AWG #16	3/16	7/16	5 3/4
E719BCG	True Flush	Tapered	AWG #17	1/16	7/16	6 3/8
E740BCG	True Flush	Oval	AWG #16	1/16	7/16	5 3/4
E742BCG	True Flush	Oval	AWG #16	1/16	7/16	5 3/4

These cutters use the **E74X1** Replacement Spring

*E710BCG uses **E71XL1** Replacement Spring

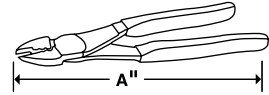


WARNING



- Plastic coated handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

Wire Tools



29CF

Crimpers

29CF Cold Forged Wire Terminal Crimping Tool.

- Cold formed heat treated rivet for smooth action and long life
- Precision machined joint and cutting edges, hardened wire cutter with Knife to Anvil design, never needs sharpening

Stock No.	Description	Length, inches (A)	Crimps
29CF	Terminal Crimping Pliers with Cutter	9 3/8	10, 12, 14, 16, 18, 20, 22 AWG Insulated and Noninsulated.



PWCS7

Wire Stripper/Cutter/Crimper

Stock No.	Description	Length, inches (A)	Strips AWG Sizes
PWCS7	Wire Stripper/Cutter/Crimper	6 3/4	12, 14, 16, 18, 20
PWCS9	Wire Stripper/Cutter/Crimper/Bolt Cutter	8 3/4	AWG20 to 10 (stranded wire), AWG16 to 8 (solid wire)



PWCS9

PWCS7 Wire Stripper/Cutter/Crimper.

- Unique smaller wire stripper/crimper that strips 12, 14, 16, 18, and 20 gauge insulated wire
- Crimps insulated and bare wire connectors
- Wire cutter in the jaw and handle
- Ideally suited for work in confined areas such as under dash or within electrical service enclosures

PWCS9 Wire Stripper/Cutter/Crimper/Bolt Cutter.

- Cold forged from special alloy steel and induction heat treated for superior performance and durability
- Bi-molded, soft grip handle provides comfort and helps reduce fatigue
- Pliers tip for grabbing or pulling wire
- Cuts #6 and #8 soft bolts
- Crimps both insulated and non insulated terminals
- Includes shears in throat area for general cutting applications



PWC30

Crimpers (Blue-Point®)



PWC47

Stock No.	Description	Length, inches (A)	Crimps
PWC30	Terminal Crimping Pliers with Cutter	10 1/4	10, 12, 14, 16, 18, 20, 22 AWG Insulated and Noninsulated.
PWC47	Computer/Sensor Terminal Crimping Tool	8	Open barrel and weather-pack terminals 14 to 24 AWG

Ratcheting Crimpers (Blue-Point)

PWC48 Ratcheting Crimper Kit.

- Versatile quick change jaw system allows work on many kinds of terminals
- Exclusive patented quick installation for easy jaw change, no tools required
- Jaws are precision investment casting made of AISI 4140 alloy steel
- Easy adjustment for changing the pressure of the crimp

PWC48NJ Ratcheting Crimper.

Ratcheting crimper without jaw set.

PWC48-1 Crimping Jaw Set.

Jaw Set A. Use on Insulated 10-22 connectors.

PWC48-2 Crimping Jaw Set.

Jaw Set B. Use on noninsulated 8-20 connectors.

PWC48-3 Crimping Jaw Set.

Jaw Set C. Use on Open Barrel 10-20 connectors.

PWC48-4 Crimping Jaw Set.

Jaw Set H. Use on Open Barrel D-Sub connectors.



PWC48

PWC34 Crimping Tool (Blue-Point).

- Double compound action with ratchet control for almost effortless operation
- Use with insulated connectors on 10 to 22 gauge wire
- Easy, efficient, single squeeze crimping of modular connectors



PWC34

PWC39 Cable Slitter (Blue-Point).

- Slits and removes insulation on single or multiple conductor cables up to 1.25" OD
- Adjustable blade allows for varying insulation thickness up to .187"
- Lightweight, fiberglass reinforced nylon body
- Extra blade in handle. 5 1/4" long



PWC39

PWC39-1 Replacement Blade.

Replacement blade for PWC39.

PWC80A Cable Cutter (Blue-Point).

- For cutting battery cables and other soft metal cables
- Vinyl covered handles
- 7 1/2" long



PWC80A

PWC52A Connector Pliers (Blue-Point).

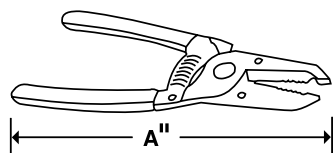
- For gripping round and irregularly shaped objects such as cannon plugs or plated pipe
- Range is 3/4 to 2 1/2"
- 9 3/4" long



PWC52A

PWC52A1 Vinyl Jaw Inserts. For PWC52A (set of 2).
PWC52A2L Replaceable Hinge Bolt. For PWC52A.

Wire Tools (Blue-Point®)



PWC12A



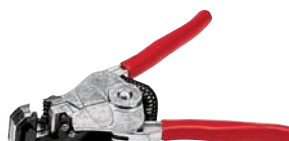
PWC28A



PWC14



PWC16A



PWC27



PWC42



PWC24



PWC5



PWC8



PWC19



PWC6



PWC22A

Strippers/Cutters/Crimpers

Stock No.	Description	Length, inches (A)	Strips AWG Sizes	Strips Metric Sizes, mm	Application	Replacement Blades
PWC12A	Wire Stripper/Cutter/Crimper	9 1/2	10, 12, 14, 16, 18	10-18 Insulated and Noninsulated 7-8 mm Ignition Terminals		
PWC28A	Wire Stripper/Cutter/Crimper/Bolt Cutter	8 1/4	10, 12, 14, 16, 18, 20, 22 Stranded, 8, 10, 12, 14, 16, 18 Solid	10-22 Noninsulated Terminals and Crimp Sleeves		
PWC14	Wire Stripper/Cutter/Crimper/Bolt Cutter	8 3/4	10, 12, 14, 16, 18, 20, 22	10-22 Insulated and Noninsulated 7-8 mm Ignition Terminals		
PWC16A	Wire Cutter/Stripper	5	10-18	Adjustable	Strips PVC, THHN, and THWN	
PWC27	Automatic Wire Stripper	6 1/4	10, 12, 14, 16, 18, 20, 22		Strips PVC, THHN, and THWN	PWC27-7
PWC42	Automatic Wire Stripper	5 1/2	16, 18, 20, 22	1.5, 1.0, .5, .42	Cotton Coated PVC Wire, and Silicone Coated Wire	PWC42-17
PWC24	Automatic Wire Stripper	6 1/4	16, 18, 20, 22, 24, 26		Strips Teflon Type E Wire	PWC24-1
PWC5	Mini Wire Cutter/Stripper	5 1/16	26-14		Copper Wire	
PWC8	Wire Stripper/Cutter	5 7/8	14 to 10 AWG			
PWC19	Micro Shear Wire Cutters	5 1/8	Up to 20	Up to .80		
PWC6	Wire Stripper/Cutter/Pliers	6	10, 12, 14, 16, 18, 20	2.6, 2.0, 1.6, 1.3, 1.0, .80	Strips PVC, THHN, and THWN	
PWC22A	Automatic Wire Stripper with Cutter	7 1/4	12, 14, 16, 18, 20		Strips PVC, THHN, and THWN	



WARNING



- Plastic coated handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

PLIERS

Pliers and Cutters (Blue-Point®)



BDGAWP100



BDG48CP



BDG98CP



BDG9845CP



BDG57CP



BDGEC7



BDG86CP



BDG88CP



B48CP



B58HLP



B96CP



BAWP100



B87CP



B45CMP



B65CMP



B75CMP



B85CMP



B85CTMP



B945CMP



B95CMP



B95CLMP



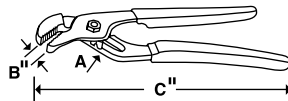
B960CMP



BMPEC5



AP10



Dipped Grips

Set Contains:

BDGPL800

Stock No.	Description	Jaw Length, inches	Length, inches	
BDGAWP100	Adjustable Joint Pliers	1 3/4	10	•
BDG48CP	Slip Joint Pliers	1 27/32	8	•
BDG98CP	Long Needle Nose Pliers	3	8	•
BDG9845CP	45° Bent Needle Nose Pliers	2 13/16	7 3/4	•
BDG57CP	Lineman's	1 1/4	7 1/2	•
BDGEC7	End Cutter	7/16	7	•
BDG86CP	Diagonal Cutter	21/32	6 1/2	•
BDG88CP	Diagonal Cutter	15/16	8 1/8	•

Standard

Set Contains:

BPL501

Stock No.	Description	Jaw Length, inches	Length, inches	
B48CP	Slip Joint Pliers	2 3/32	8 13/32	•
B58HLP	Lineman's Pliers	1 1/2	8 31/32	•
B96CP	Needle Nose Pliers	2 1/32	6 5/16	•
BAWP100	Adjustable Joint Pliers	1 3/8	10 5/32	•
B87CP	Diagonal Cutters	31/32	6 19/32	•

Miniature

Set Contains:

BMP1000

Stock No.	Description	Jaw Length, inches	Length, inches	
B45CMP	Combination Pliers	1	4 11/16	•
B65CMP	Duck Bill Pliers	1 5/32	4 7/8	•
B75CMP	Round Nose Pliers	1 5/32	5	•
B85CMP	Diagonal Cutter	21/32	4 11/32	•
B85CTMP	Thin Diagonal Cutter	23/32	4 5/8	•
B945CMP	45° Bent Nose Pliers	1	4 11/16	•
B95CMP	Long Nose Pliers	1 1/8	4 7/8	•
B95CLMP	Long Needle Nose Pliers	2 1/16	5 25/32	•
B960CMP	60° Bent Nose Pliers	15/16	4 11/16	•
BMPEC5	End Cutter	5/16	4 1/32	•

Sets shown include storage tray

Adjustable Joint

Stock No.	Description	Max. Jaw Positions (A)	Parallel Opening, inches (B)	Length, inches (C)
AP7	Adjustable Joint	9	1 1/2	7
AP10	Adjustable Joint	11	1 3/4	10

Pliers and Cutters (Blue-Point®)

Long Reach Miniature

Set Contains:

BDGPL400LMP

Stock No.	Description	Jaw Length, Inches	Length, Inches	
BDG96LMP	Long Nose Pliers	1 5/16	6	•
BDG97LMP	Needle Nose Pliers	2 13/32	7	•
BDG9645LMP	45° Bent Nose Pliers	1 7/32	6	•
BDG86LMP	Diagonal Cutting Pliers	3/4	5 1/2	•



BDGPL400LMP

Long Reach Compound Joint

Set Contains:

303DJCP

Stock No.	Description	Jaw Length, Inches	Length, Inches	
913DJBCP	45° Bent Nose Pliers	2 5/8	12 3/4	•
913DJCP	Needle Nose Pliers	2 3/4	13	•
613DJCP	Duck Bill Pliers	1 1/2	12 5/8	•

Sets shown include storage tray



303DJCP

Extended Reach Hose Grip

Set Contains:

BDGPL300HG

Stock No.	Description	Jaw Length, Inches	Length, Inches	
BDGPL410HG	Small Hose Grip Pliers	2 1/4	11	•
BDGPL411HG	Medium Hose Grip Pliers	2 1/4	11	•
BDGPL412HG	Large Hose Grip Pliers	2	11	•



BDGPL300HG

Long Reach

Set Contains:

BDGPL300LR

Stock No.	Description	Jaw Length, Inches	Length, Inches	
BDG311CP	Diagonal Cutter	1 9/16	11	•
BDG91145CP	45° Bent Needle Nose Pliers	3 3/16	11	•
BDG911CP	Needle Nose Pliers	3 9/16	11	•



BDGPL300LR

Extra Long Reach

Set Contains:

BDGPL200XLR

Stock No.	Description	Jaw Length, Inches	Length, Inches	
BDG91645CP	45° Bent Needle Nose Pliers	3 3/16	16	•
BDG916CP	Needle Nose Pliers	3 9/16	16	•



BDGPL200XLR

Heavy Duty Bolt Cutters

Drop forged, alloy steel jaws are precision ground to provide a long lasting cutting edge. Lightweight, tubular steel handles deliver extra leverage for tough jobs. Comfortable, heavy duty grips resist slippage.

Stock No.	Capacity (Soft Material), Inches	Capacity (Hard Material), Inches	Length, Inches	Weight, lb (kg)	Replacement Jaw Assembly
BLPBC18	3/8	1/4	18	3.4 (1.55)	BLPBC18-1
BLPBC24	7/16	5/16	24	5.6 (2.55)	BLPBC24-1
BLPBC30	1/2	3/8	30	8.6 (3.9)	BLPBC30-1
BLPBC36	9/16	7/16	36	14.2 (6.45)	BLPBC36-1



BLPBC18



BLPBC30



WARNING



- Plastic coated handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

NONCONDUCTIVE COMPOSITE TOOLS

HYBRID
INNOVATION



CNSGD^{X60}



IHT60K



IHTS6



IHTP62

Screwdrivers (Soft Grip)

- Slim tip design accesses fasteners in tight areas faster and easier
- No conductive path to user
- No insulation to puncture, tear or wear through
- Exceeds ANSI®, ISO® and ASME® strength and performance requirements for standard steel tools
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on® nonconductive tools are UL® listed, assuring compliance to IEC®60900
- U.S. Patent 6,655,240 B1

Set
Contains:

CNSGD^{X60}

	Stock No.	Tip Size	Shank Length, inches	Length, inches	
Flat Tip	CNSGDF66	3/16	6	11 1/2	•
	CNSGDF68	1/4	6	11 1/2	•
	CNSGDF69	9/32	6	11 1/2	•
Phillips Tip	CNSGDP61	#1	6	11 1/2	•
	CNSGDP62	#2	6	11 1/2	•
	CNSGDP63	#3	6	11 1/2	•

Screwdrivers (Screwdriver Handle)

- No conductive path to user
- No insulation to puncture, tear or wear through
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- U.S. Patent 5,259,277

Set
Contains:

IHT60K

	Stock No.	Tip Size	Shank Length, inches	Length, inches	Replacement Bit	
Flat Tip	IHTS3	3/16	3 1/4	8 3/16	IHTS65	•
	IHTS37	7/32	3 1/4	8 3/16	IHTS37-5	
	IHTS38	1/4	3 1/4	8 3/16	IHTS685	
	IHTS6	1/4	6	11	IHTS685	•
	IHTS610	5/16	6	11	IHTS6105	
	IHTS9	5/16	9	14	IHTS6105	•
Phillips Tip	IHTS912	3/8	9	14	IHTS912-5	
	IHTP31	#1	3 1/4	8 3/16	IHTP315	•
	IHTP62	#2	6	11	IHTP625	•
	IHTP63	#3	6	11	IHTP635	•



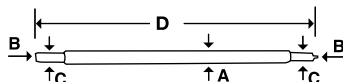
CSSC9



SGDMRC4-C6

Screwstarters and Screwdriver Shanks

- No conductive path to user
- No insulation to puncture, tear or wear through
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on nonconductive tools are UL listed, assuring compliance to IEC60900



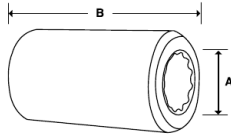
Stock No.	Handle Type	Handle Diameter, inches (A)	Tip Style (B)	Tip Style (C)	Length, inches (D)
CSSC9	Composite*	9/32	Flat Tip/Phillips	.032" x 9/32", #2	9
SGDMRC4-C6	Composite Magnetic Bit Holder	3/8			7 1/4

*Rated shock resistant up to 1,000 V.

NONCONDUCTIVE COMPOSITE TOOLS



CFDSM15B



CFDS16B

HYBRID INNOVATION



207CFDSY



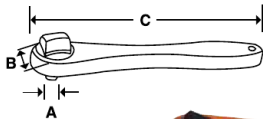
IHT208K

Nonconductive Composite Socket

- No conductive path to user
- No insulation to puncture, tear or wear through
- Strong as steel
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on® nonconductive tools are UL® listed, assuring compliance to IEC®60900

3/8" Drive Sockets, mm, 12 Point

mm	12	Outside Diameter, mm (A)	Length, mm (B)
10	CFDSM10B	25.1	44.9
12	CFDSM12B	29.6	51.2
13	CFDSM13B	29.6	51.2
14	CFDSM14B	29.6	51.2
15	CFDSM15B	29.6	51.2
16	CFDSM16B	33.5	57.4
17	CFDSM17B	33.5	57.4
18	CFDSM18B	33.5	57.4
19	CFDSM19B	33.5	57.4



CFS949A

Ratchets

- No conductive path to user
- No insulation to puncture, tear or wear through
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on nonconductive tools are UL listed, assuring compliance to IEC60900

Stock No.	Square Drive, inches (A)	Head Width, inches (B)	Length, inches (C)	Repair Kit
CFS949A	3/8	1 19/32	8 3/4	RKRCFS949A
CSS949A	1/2	1 19/32	8 3/4	



CFX6

Extensions

Stock No.	Square Drive, inches (A)	Outside Diameter, inches (B)	Length, inches (C)
CFX3	3/8	1	3
CFX6	3/8	2	6
CFX12	3/8	2	12
CSX5	1/2	1 5/16	5 21/32
CSX10	1/2	1 5/16	10 21/32

3/8" Drive Sockets, inches, 12 Point

	12	Outside Diameter, inches (A)	Length, inches (B)	
1/4	CFDS8B	15/16	1 3/4	
5/16	CFDS10B	15/16	1 3/4	
3/8	CFDS12B	1	1 3/4	•
7/16	CFDS14B	1	1 3/4	•
1/2	CFDS16B	1 3/16	2	•
9/16	CFDS18B	1 3/16	2	•
5/8	CFDS20B	1 3/16	2	•
11/16	CFDS22B	1 3/8	2 1/4	•
3/4	CFDS24B	1 3/8	2 1/4	•

Set Contains:
207CFDSY

IHT208K Nonconductive Composite Ratchet and Socket Set. CFDS12B thru CFDS24B sockets (3/8 to 3/4") (8 pcs) plus CFS949A ratchet in C0800 kit bag.

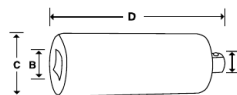


CSN24B

Breaker Bar

- Features the comfort and control of a Snap-on screwdriver style handle
- UL listed
- Each tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Meets IEC60900 and ASTM® 1505 standards for insulating hand tools
- Exceeds ASME®/ANSI® B107.10M strength requirements for standard steel tools

Stock No.	Head Width, inches	Length, inches	Head Diameter, inches
CSN24B	1 1/8	24 1/2	1



CFSSB8



CA1MF

Adaptors

- No conductive path to user
- No insulation to puncture, tear or wear through
- Strong as steel
- Every tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Only Snap-on nonconductive tools are UL listed, assuring compliance to IEC60900

Stock No.	Description	External Square Drive, inches (A)	Internal Square Drive, inches (B)	Outside Diameter, inches (C)	Length, inches (D)
CA1MF	1/2" Square Drive Adaptor	3/8	1/2	1 5/16	3 25/32
CA2A	3/8" Square Drive Adaptor	1/2	3/8	1	3 7/8

CFSSB8 Nonconductive Composite Universal Bit Socket. Composite (insulating) universal bit socket for holding 1/4" bits. 3/8" square drive, 1" O.D., 1 3/4" long.



WARNING



- Do not use damaged tool
- Do not use cheater bars on handles
- Do not use with impact drivers
- Read safety precautions on pages W1 to W4

NONCONDUCTIVE COMPOSITE TOOLS

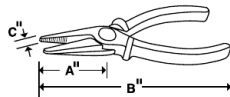
HYBRID
INNOVATION



C97CP



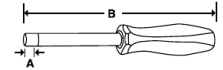
C59AHL P



Pliers

- Nonconductive needle nose pliers feature all composite jaw and handle
- Spring loaded joint returns pliers to comfortable working position
- Durable jaw teeth aid in gripping and twisting
- Integral thumb guard for user protection
- Each tool is individually tested to protect up to 1,000 V AC and 1,500 V DC
- Snap-on® nonconductive tools are UL® listed, assuring compliance to IEC®60900 ASTM® standards for insulating hand tools
- Nonconductive lineman pliers have same quality as standard lineman pliers for performance and durability
- Nonconductive handles are soft grip for comfort and control
- Handles feature thumb guards, 2 position grip and tether hole
- Each tool is individually tested to ensure protection up to 1,000 V AC and 1,500 V DC

Stock No.	Description	Jaw Length, inches (A)	Length, inches (B)	Tip Width, inches (C)
C97CP	Needle Nose Pliers	2	8 1/2	5/32
C59AHL P	Lineman s Pliers	1 13/32	10	




107CNDD

Nut Drivers

- Snap-on nonconductive composite nut drivers have the 6 point Flank Drive® wrenching system for greater turning power with less fastener damage. Nut drivers feature narrow, nonconductive composite shanks for greater access and a full 5" bolt clearance depth
- Screwdriver style handles provide maximum comfort and control
- Handles are color coded for easy size reference
- Sizes are stamped on the handle crown for better visibility when wearing a tool pouch
- U.S. Patent 6,427,563

Set
Contains:
107CNDD


Stock No.		Bolt Clearance Diameter, inches (A)	Length, inches (B)	
CNDD106	3/16	5/32	7 5/8	•
CNDD107	7/32	5/32	7 5/8	•
CNDD108	1/4	5/32	7 5/8	•
CNDD110	5/16	5/32	7 5/8	•
CNDD112	3/8	11/32	8 3/8	•
CNDD114	7/16	11/32	8 17/32	•
CNDD116	1/2	11/32	9 1/16	•



CRB1824

Ratcheting Box Wrenches

- UL listed
- Individually tested to protect up to 1,000 V AC and 1,500 V DC
- Meets IEC60900 ASTM standards for insulating hand tools

Stock No.		Finish	Head Diameter, inches (A)	Head Depth, inches (B)	Length, inches (C)
CRB1824	9/16-3/4	Composite	1 9/16 - 1 13/16	5/8-5/8	9 1/16

Soldering

Butane Soldering Iron Kit (Blue-Point®)

YAKS300 Butane Soldering Iron Kit (50 W). A robust economy model featuring an ultrasonically welded gas tank for better strength. Butane compatible plastics helps prevent gas from leaking.

- 12 month replacement warranty
 - Easy to light with added flint ignitor in the cap
 - 50 W equivalent with a 30 minute continuous use run time
 - Safety cutoff switch when cap is replaced
 - Cordless butane powered; no cords or wires
 - Kit includes 4 tips, stand and cleaning sponge
- YAKS300 Butane Soldering Iron.**



YAKS300

YAKS300 Soldering Tips

Stock No.	Description	Size, inches (mm)
YAKS3002	Fine Solder Tip	1/8 (3.2)
YAKS3003	Chisel Solder Tip	3/32 (2.4)
YAKS3004	Double Flat Solder Tip	3/16 (4.8)
YAKS3005	Hot Knife Tip	
YAK10-8	Hot Iron Stand	
YAK10-9	Metal Sponge Cup	
YAK10-10	Plastic Box	



YAKS32A

Butane Soldering Iron Kit

YAKS32A Butane Soldering Iron Kit (25 to 125 W).

Durable all around favorite featuring an ultrasonically welded gas tank for better strength, safety and reliability. Made with butane compatible plastics to help prevent gas from leaking.

- Kit includes 5 soldering tips plus hot knife, hot air and hot air deflector tips
- Pushbutton electronic ignitor
- Torch and soldering iron all in one
- Run time 90 mins plus continuous use
- Adjustable temperature control 25 to 130 W (equivalent)
- Converts to a heat shrink tool and hot knife with the addition of interchangeable tips
- Cordless butane powered, no cords or wires
- 12 month replacement warranty

Optional Tips for YAS32A Soldering Iron

YAKS1-1 Single Face Solder Tip. 1/32" (1.0 mm)

YAKS1-3 Single Face Solder Tip. 1/8" (3.2 mm)

YAKS1-4 Single Face Solder Tip. 3/16" (4.8 mm)

YAKS113 Hot air blower with deflector

YAS32A 2 IN 1 Gas Soldering Auto-Ignition Tool

(25 to 130 W). Durable all around favorite featuring an ultrasonically welded gas tank for better strength, safety and reliability. Made with butane compatible plastics to help prevent gas from leaking.

- Includes YAKS1-6 2.4 mm Double Flat soldering tip
- Pushbutton electronic ignitor
- Torch and soldering iron all in one
- Run time 90 mins plus continuous use
- Adjustable temperature control 25 to 130 W (equivalent)
- Converts to a heat shrink tool and hot knife with the addition of interchangeable tips
- Cordless butane powered, no cords or wires
- 12 month replacement warranty

Optional Tips for YAS32A Soldering Iron

YAKS1-1 Single Face Solder Tip. 1/32" (1.0 mm)

YAKS1-3 Single Face Solder Tip. 1/8" (3.2 mm)

YAKS1-4 Single Face Solder Tip. 3/16" (4.8 mm)

YAKS113 Hot air blower with deflector

Kit Comparison YAKS300, YAKS32A & YAKS22A

Products	YAKS300	YAKS32A	YAKS22A
Fine Tip	•		
1.0 DF Tip		•	•
2.4 DF Tip	•	•	•
3.2 DF Tip		•	•
4.8 mm Tip		•	•
Hot Knife Tip	•	•	•
Hot Blow & Deflector		•	•
Torch		•	•
Cleaning Sponge & Tray	•	•	•
Kit Box	•	•	•
Flint Ignitor cap	•		
Cap		•	•



YAKS22A

Butane Soldering Iron Kit

YAKS22A Butane Soldering Iron Kit (15 to 75 W).

Versatile and compact professional soldering iron, featuring an ultrasonically welded gas tank for better strength, safety and reliability. Made with butane compatible plastics to help prevent gas from leaking.

- Kit includes 8 tips: Hot air, heat shrink, torch, hot knife with 4 soldering tips
- Pushbutton electronic ignitor
- Short distance from tip to grip gets you closer to your work
- Run time up to 1 hour
- Adjustable temperature control 15 to 75 W (equivalent)
- Converts to a torch, heat shrink tool and hot knife with the addition of interchangeable tips
- ESD safe antistatic
- Cordless butane powered, no cords or wires
- 12 month warranty

Optional Tips for YAS22A Soldering Iron

YAKS221 Single Flat Tip. 1/32" (1.0 mm)

YAKS223 Single Flat Tip. 1/8" (3.2 mm)

YAKS224 Single Flat Tip. 3/16" (4.8 mm)

YAKS2213 Hot Air Tip with deflector

YAS22A Gas Soldering with Auto-Ignition

(15 to 75 W). Versatile and compact professional soldering iron, featuring an ultrasonically welded gas tank for better strength, safety and reliability. Made with butane 3/32 compatible plastics to help prevent gas from leaking.

- Includes YAKS226 2.4 mm Double Flat Tip
- Pushbutton electronic ignitor
- Short distance from tip to grip gets you closer to your work
- Run time up to 1 hour
- Adjustable temperature control 15 to 75 W (equivalent)
- Converts to a torch, heat shrink tool and hot knife with the addition of interchangeable tips
- ESD safe antistatic
- Cordless butane powered, no cords or wires
- 12 month warranty

Optional Tips for YAS22A Soldering Iron

YAKS221 Single Flat Tip. 1/32" (1.0 mm)

YAKS222 Single Flat Tip. 3/32" (2.4 mm)

YAKS223 Single Flat Tip. 1/8" (3.2 mm)

YAKS224 Single Flat Tip. 3/16" (4.8 mm)

YAKS2213 Hot Air Tip with deflector

Product	Push Button ignitor	Max. power (watts equivalent)	Adjustable Temperature Control	Run time, mins	Tips included	ESD Safe
YAKS32A	Yes	130	Yes	90	8	Yes
YAKS22A	Yes	75	Yes	60	8	Yes
YAKS300	No	50	Yes	30	4	Yes



WARNING



- Do not store butane at temperature over 120 °F
- Transport and dispose of butane in accordance with all regulations
- Do not use damaged tool
- Read safety precautions on pages W1 to W4

YAKS32A Soldering Tips

Stock No.	Description	Size, inches (mm)
YAKS1-1	Single Flat Solder Tip	1/32 (1.0)
YAKS1-2	Single Flat Solder Tip	3/32 (2.4)
YAKS1-3	Single Flat Solder Tip	1/8 (3.2)
YAKS1-4	Single Flat Solder Tip	3/16 (4.8)
YAKS1-5	Double Flat Solder Tip	1/32 (1.0)
YAKS1-6	Double Flat Solder Tip	3/32 (2.4)
YAKS1-7	Double Flat Solder Tip	1/8 (3.2)
YAKS1-8	Double Flat Solder Tip	3/16 (4.8)
YAKS1-9	Hot Air Blower Tip	
YAKS1-10	Hot Knife Tip	
YAKS112	Hot Air Blower Deflector	
YAKS113	Hot Air Blower and Deflector Tip	
YAKS1-11	Plastic Case	

YAKS22A Soldering Tips

Stock No.	Description	Size, inches (mm)
YAKS221	Single Flat Solder Tip	1/32 (1.0)
YAKS222	Single Flat Solder Tip	3/32 (2.4)
YAKS223	Single Flat Solder Tip	1/8 (3.2)
YAKS224	Single Flat Solder Tip	3/16 (4.8)
YAKS225	Double Flat Solder Tip	1/32 (1.0)
YAKS226	Double Flat Solder Tip	3/32 (2.4)
YAKS227	Double Flat Solder Tip	1/8 (3.2)
YAKS228	Double Flat Solder Tip	3/16 (4.8)
YAKS229	Hot Air Blower Tip	
YAKS2210	Hot Knife Tip	
YAKS2211	Hot Air Blower Deflector	
YAKS2212	Flame Tip	
YAKS2213	Hot Air Blower and Deflector Tip	
YAKS2214	Instruction Sheet	
YAKS2215	Carrying Case	

Soldering / Electrical Soldering Kits



R450B Soldering Gun Kit.

- 3 different tip and element configurations give this tool great flexibility from delicate soldering to larger, heavy duty applications, such as automotive maintenance
- Slim, single post design ideal for confined work areas
- Fast heat up
- Built in spotlight to illuminate the work area
- Integral tool stand keeps heated part of the tool out of harms way
- Polarized plug and professional quality
- Packed in a plastic storage case
- UL® listed

R460B Heavy Duty Soldering Gun Kit (Blue-Point®).

- Heavy duty soldering gun for those big jobs, quick and efficient
- Built in spotlight illuminates the work area
- Balanced tool design is more comfortable and easier to use
- Tip heats up in less than 10 seconds
- Quick change type tips can be easily changed within 30 seconds
- Integral tool stand keeps heated part of the tool from damaging surrounding areas
- Packed in a plastic storage case
- UL listed

R490 Industrial Soldering Gun (Blue-Point).

- Dual wattage elements: high wattage heats tip in seconds, lower wattage maintains rated tip temperature
- Effective tip temperature of 1,000 °F or more for heavy duty, sustaining soldering
- Trigger activated control is convenient, easy to use and provides instant response
- Built-in worklight illuminates the work area
- Plug-in tip and element (TE) assemblies are plug in units that can be changed within a minute
- Integral tool stand prevents heated part of tool from damaging surrounding areas
- Plastic storage case
- UL listed

R60B (60 W) Soldering Station (Blue-Point).

- Includes low voltage, temperature controlled soldering pencil that features a heat shield, a nonburnable silicone rubber cord and a plug-in tip design
- Transformer powered
- 700 F ; 1/16" screwdriver tip included
- 120 V, 60 Hz
- Optional 700 F tips for R60B or RH60B



Irons

R40B Industrial Soldering Kit.

- 40 W solder iron is ideal for large solder jobs like battery terminal cables or radiator repair. Threaded tips offer improved heat exchange compared to set screw types
- Features a heat deflection shield, 4 3/4" long handle, 8 1/2" overall length and 8' power cord
- Includes pointed, chisel and fine tips plus 1/2 oz of lead free rosin core solder and holder
- UL listed
- 120 V, 60 Hz

R25A Industrial Soldering Kit.

- Lightweight 25 W pencil style kit for fine soldering applications
- Threaded tips offer improved heat exchange
- Features a heat deflection shield, 4 3/4" long handle, 8 1/2" overall length and 8' power cord
- Includes pointed, chisel and fine tips plus 1/2 oz of lead free rosin core solder and holder
- UL listed
- 120 V, 60 Hz

Optional Tips

Item	Description
R60A7	Screwdriver 1/16 Tip 700 F
R60A8A	Screwdriver 1/16 Tip 800 F
R60B7	Screwdriver 3/32 Tip 700 F
R60B8	Screwdriver 3/32 Tip 800 F
R60D7	Screwdriver 3/16 Tip 700 F
R60D8	Screwdriver 3/16 Tip 800 F
R6007	Long Conical 1/32 Tip 700 F
R60R7	Narrow Screwdriver 1/16 Tip 700 F
R60R8	Narrow Screwdriver 1/16 Tip 800 F
R60S7	Long Conical 1/64 Tip 800 F

Solder Suckers

YA477A Solder Sucker.

- Low static unit designed for desoldering electrostatic discharge sensitive components
- Set plunger and release creates a vacuum that draws up solder

YA477-1 Replacement Tip. Replacement tip for YA477A.

YA476A Small Solder Sucker.

- Smaller version of YA477A above
- Includes self cleaning feature

YA476-1A Replacement Tip. Replacement tip for YA476A.



YA477A



YA476A

Soldering/Butane

Miniature Butane Soldering Torches (Blue-Point®)

TORCH2A Turbo Torch.

- Child resistant Piezo Ignition System
- Instant 1,300 °C/2,400 °F Micro Flame
- Pocket size
- Internal fuel tank
- 20 minutes of continuous use per refilling
- Dimensions: 4" H x 2 3/4" L x 3/4" W

Applications:

Camping, first aid, survival kits, thawing frozen locks, DIY repairs, heat shrink and outdoor activities.

TORCH3A Professional Torch.

- Child resistant Piezo Ignition System
- Instant 1,300 °C/2,400 °F pencil point flame
- Adjustable gas control valve
- Safety continuous use lock
- 20 minutes of continuous use per refilling
- Dimensions: 6 1/2" H x 4 1/2" L x 2" W

Applications:

Brazing, soldering, plumbing, tool and die shops, automotive and truck repairs, electronic repairs and industrial maintenance.

TORCH4 Butane Blow Torch.

- Ultrasonically welded gas tank for better strength and safety
- Butane compatible plastics prevents gas leaks
- Powerful wind resistant flame with 751 Btu/h
- Temperature up to 2,462 F (1,350 C)
- All in one easy to use on/off ignition switch
- Adjustable flame length up to 3 1/2"
- Run time is a continuous 40 minutes plus
- 220 W equivalent



TORCH2A



TORCH3A



TORCH4



TORCH6

TORCH6 Butane Torch.

- Features an ultrasonically welded gas tank for better strength, safety and reliability
- Made with butane compatible plastics, prevents gas leaking
- 18 month replacement warranty
- Robust burner specifically designed to protect the ceramic greatly extends the life of the torch
- Twin spark ignition, lights first time every time
- Massive 2.797 Btu/h flame power
- Adjustable flame length up to 4 1/2"
- Temperature up to 2,462 F (1,350 C)
- Almost 4 times more powerful than any other butane micro torch

BUTANE15CSA Butane Fuel Cans (Case).

- Triple filtered butane fuel for use with Snap-on® TORCH2A, TORCH3A, TORCH4 and TORCH6 mini torches, YAKS300/YAKS32A/YAKS22A soldering irons and LUE UN3/ LUE UN4KT glue guns
- Universal filling tip can be used with most refillable butane products as well
- Case of (24) 1.5 oz cans



TZK5



TZK7



MPK4A



MPC7A



MPS7A

Tweezers (Blue-Point)

TZK5 Tweezers Kit. Includes 5 tweezers in a vinyl zipper pouch.

- All stainless steel construction
- Pointed tweezers w/plain ends, 4 3/8" long
- Self closing tweezers w/plain ends, 4 1/2" long
- Self closing, weighted solder tweezers w/serrated blunt end, 7" long
- Sharp point utility tweezers w/bent plain ends, 7" long
- Sharp point utility tweezers w/plain ends, 7" long

TZK7 Tweezers Kit. Includes 7 tweezers in a black vinyl zipper pouch.

- All stainless steel construction
- Pointed tweezers, 4 3/8" long
- Curved head utility tweezers, 6 3/4" long
- Self closing, heat resistant tweezers, 6" long
- Sharp pointed utility tweezers, 7" long
- Side locking tweezers, 6" long
- Spade point tweezers, 4 3/8" long
- Weighted solder tweezers, 6" long

Miniature Tool/Pliers (Blue-Point)

Mini-Pliers. Stainless steel, 3 notch ratcheting locking mechanisms lock onto small objects with varying degrees of pressure. 1/16" tips; 1 3/8" long jaws.

MPC7A Mini-Pliers. Curved, serrated jaws. 7" long.

MPC10A Mini-Pliers. Curved, serrated jaws. 10" long.

MPS7A Mini-Pliers. Straight, serrated jaws. 7" long.

MPS10A Mini-Pliers. Straight, serrated jaws. 10" long.

MPK4A Mini-Pliers Set. MPC7 and MPC10 plus MPS7 and MPS10A (4 pcs) in black zipper pouch.



WARNING



- Do not store butane at temperature over 120 °F
- Transport and dispose of butane in accordance with all regulations
- Read safety precautions on pages W1 to W4

PUNCHES AND CHISELS

Punches and Chisels

The anvil end on heads of Snap-on® punches and chisels are machined to a modified parabolic curve. This design directs the striking force to the center of the tool head to allow slow metal displacement. The parabolic curve controls mushrooming to reduce chipping and splitting. Heads should be redressed to their original shape with hand files as necessary. The tough alloy steel is machined and differentially heat treated for optimum performance. The hardness of the striking head is reduced to help toughness and add qualities that result in a slower mushrooming of the striking surface.



PPC250BK

PPC250BK Punch and Chisel Set.

Includes 24 pcs in KB2179 kit bag:

PPC1A PPC106A PPC205A PPC820B
 PPC3A PPC108A PPC206A PPC824B
 PPC4A PPC110A PPC208A PPC12B
 PPC103A PPC112 PPC210A PPC14B
 PPC104A PPC203A PPC812B PPC15B
 PPC105A PPC204A PPC816B PPC19B



PPC100AK

PPC100AK Punch and Chisel Set.

Includes 10 pcs in KB2175 kit bag:

PPC812B PPC828B PPC15B
 PPC816B PPC12B PPC19B
 PPC820B PPC13B
 PPC824B PPC14B



PPC210BK

PPC210BK Punch and Chisel Set.

Includes 22 pcs in KB2178 kit bag:

PPC1A PPC105A PPC204A PPC816B
 PPC3A PPC106A PPC205A PPC820B
 PPC4A PPC108A PPC206A PPC824B
 PPC5A PPC110A PPC208A PPC828B
 PPC103A PPC112 PPC210A
 PPC104A PPC203A PPC812B



PPCD70BK

PPCD70BK Pin Punch Set.

Includes 7 pcs in KB2183 kit bag:

PPC103A PPC106A PPC110A
 PPC104A PPC107A
 PPC105A PPC108A



PPC715BK

PPC715BK Punch and Chisel Set.

Includes 16 pcs in KB2182 kit bag:

PPC1A PPC104A PPC203A PPC208A
 PPC3A PPC105A PPC204A PPC812B
 PPC4A PPC106A PPC205A PPC816B
 PPC103A PPC108A PPC206A PPC820B



PPCS60BK

PPCS60BK Starter Punch Set.

Includes 6 pcs in KB2185 kit bag:

PPC203A PPC205A PPC208A
 PPC204A PPC206A PPC210A



PPC710BK

PPC710BK Punch and Chisel Set.

Includes 11 pcs in KB2181 kit bag:

PPC1A PPC105A PPC205A PPC816B
 PPC4A PPC106A PPC206A PPC820B
 PPC103A PPC203A PPC812B



PPC50AK

PPC50AK Flat Chisel Set.

Includes 5 pcs in KB2173 kit bag:

PPC812B PPC820B PPC828B
 PPC816B PPC824B



PPSD120BK

PPSD120BK Pin and Starter Punch Set.

Includes 12 pcs in KB2187 kit bag:

PPC103A PPC106A PPC203A PPC206A
 PPC104A PPC108A PPC204A PPC208A
 PPC105A PPC110A PPC205A PPC210A



PPCM60BK

PPCM60BK Metric Pin Punch Set.

Includes 6 pcs in KB2189 kit bag:

PPCM103B PPCM104B PPCM105B
 PPCM106B PPCM107B PPCM108B

	Stock No.	Hex Size, inch	Point / Edge, inch (mm)	Length, inch (mm)
Punch and Chisel Accessories 	PPC1A Chisel Gauge			2 5/8
	PPC5A Punch/Chisel Holder			7 11/16
Center Punches 	PPC3A	5/16	1/8	5
	PPC4A	7/16	3/16	6
	PPC6B	5/8	5/16	7
	PPC714B	9/16	5/32	14
Pin Punches 	PPC103A	9/32	3/32	4 7/32
	PPC104A	5/16	1/8	4 1/2
	PPC105A	3/8	5/32	4 1/2
	PPC106A	3/8	3/16	5 1/4
	PPC107A	3/8	7/32	5 1/4
	PPC108A	7/16	1/4	5 3/4
	PPC110A	1/2	5/16	6
	PPC112	9/16	3/8	5 1/4
Metric Pin Punches 	PPCM103B	5/16	(3)	(159)
	PPCM104B	5/16	(4)	(159)
	PPCM105B	3/8	(5)	(159)
	PPCM106B	3/8	(6)	(159)
	PPCM107B	3/8	(7)	(159)
	PPCM108B	7/16	(8)	(159)
Starter Punches 	PPC203A	5/16	3/32	5 1/2
	PPC204A	3/8	1/8	5 3/4
	PPC205A	3/8	5/32	6
	PPC206A	7/16	3/16	6 1/4
	PPC208A	1/2	1/4	6 3/4
	PPC210A	9/16	5/16	7 1/4

	Stock No.	Hex Size, inch	Point/ Edge, inch	Length, inch
Flat Chisels 	PPC808A	1/4	1/4	5
	PPC812B	5/16	3/8	5 1/4
	PPC816B	7/16	1/2	5 5/8
	PPC820B	1/2	5/8	6 1/2
	PPC824B	5/8	3/4	7 1/4
	PPC828B	11/16	7/8	8
	PPC832B	7/8	1	9
	BPPC1878*	7/8	1	18
Long Flat Chisels 	PPC820LB	1/2	5/8	16
Half Round Nose Cape Chisels 	PPC12B	3/8	5/16	6
Cape Chisels 	PPC13B	5/16	1/4	5 5/8
	PPC14B	3/8	5/16	6
Diamond Point Chisels 	PPC15B	7/16	7/32	6
	PPC19B	3/8	1/8	5 3/4

*Blue-Point®

PPRG80 Roll Pin Punch Guide Set.

- Companion tool for the PPR708BK roll pin punch set
- Provides faster, safer pin installation
- Pin guide is a vinyl sleeve uniting pin and punch to achieve perfect alignment during installation
- Ideal for pin installation in tight quarters where 2 hands can't reach
- Use with Snap-on® roll pin punches PPR2 through PPR8 (1/16 to 1/4")
- Can also be used with Snap-on pin punches PPC103A through PPC108A (3/32 to 1/4") and long pin punches PPC104LA thru PPC108LA (1/8 to 1/4")



PPRG80

PPR708BK Roll Pin Punch Set.

Includes 8 pcs in KB2186 kit bag:

- PPR2 PPR4 PPR7
PPR2-1/2 PPR5 PPR8
PPR3 PPR6



PPR708BK

PPCL60BK Long Pin Punch Set.

Includes 6 pcs in KB2184 kit bag:

- PPC104LA PPC106LA PPC108LA
PPC105LA PPC107LB PPC110LA



PPCL60BK

PPVP70BK Midget Punch and Chisel Set.

Includes 7 pcs in KB2188 kit bag:

- PPC402A PPC406B
PPC403A PPC407B
PPC404A PPC408B
PPC405A



PPVP70BK

PPLT40AK Drift Pin Punch Set.

Includes 4 pcs in KB2174 kit bag:

- PPC905B PPC908B
PPC910B PPC912B



PPLT40AK

LP30A Drift Pin Punch Set.

Includes 3 pcs in KB2177 kit bag:

- 1210B 1512B 1816B



LP30A

PPB30AK Bronze Punch Set.

Includes 3 pcs in KB2171 kit bag:

- PPB408A PPB612A PPB816A



PPBL30AK

PPBL30AK Bronze Punch Set.

Includes 3 pcs in KB2172 kit bag:

- PPB1012A PPB1226A PPB826A

PPB20AK Bronze Tapered Punch Set.

Includes 2 pcs in KB2170 kit bag:

- PPB1012A PPB1414A

	Stock No.	Hex Size, inch	Point/Edge, inch	Length, inch
Roll Pin Punches	PPR2		1/16	3 5/32
	PPR2-1/2		5/64	3 1/2
	PPR3		3/32	3 29/32
	PPR4		1/8	4 1/4
	PPR5		5/32	4 5/8
	PPR6		3/16	5
	PPR7		7/32	5 3/8
	PPR8		1/4	5 3/4
	PPR10		5/16	6 1/8
	PPR12		3/8	6 1/8
	PPR14		7/16	6 1/8
	PPR16		1/2	6 1/8
	Long Pin Punches	PPC104LA	5/16	1/8
PPC105LA		3/8	5/32	6 1/2
PPC106LA		3/8	3/16	7 1/16
PPC107LB		3/8	7/32	7 5/8
PPC108LA		7/16	1/4	8 3/16
PPC110LA		1/2	5/16	8 3/4
Midget Punches and Chisels	PPC402A Pin Punch	9/32	1/16	3
	PPC403A Pin Punch	9/32	1/8	3 1/4
	PPC404A Center Punch	9/32	3/32	3 5/8
	PPC405A Starter Punch	9/32	1/16	3 3/4
	PPC406B Cape Chisel	9/32	3/16	4
	PPC407B Cape Chisel	9/32	5/32	4
	PPC408B Flat Chisel		5/16	4 1/8

	Stock No.	Hex Size, inch	Point/Edge, inch	Length, inch
Drift Pin Punches	PPC905B	3/8	5/32	8
	PPC908B	7/16	1/4	8 1/2
	PPC910B	1/2	5/16	9
	PPC912B	9/16	3/8	9 1/2
	1210B	5/8	5/16	12 1/2
	1512B	3/4	3/8	15
	1816B	7/8	1/2	18
Bronze Pin Punches	PPB408A		1/4	4
	PPB612A		3/8	6
	PPB816A		1/2	8
Bronze Drift Punches	PPB826A		13/16	8
	PPB1226A		13/16	12
	PPB1001A	5/8	3/8	8
Bronze Tapered Punches	PPB1012A		3/8	10
	PPB1414A		7/16	14
	PPB1002A		3/4	10

- Use the proper punch or chisel for the job
- Do not use punches or chisels having chipped or mushroomed end; dress to original shape with a hand file

- Hammer head diameter should be approximately 3/8" larger than head of punch or chisel
- Read safety precautions on pages W1 to W4



WARNING



PUNCHES AND CHISELS

Soft Grip

- Ergonomic soft grip handle provides a powerful grip, improves the thermal sensation in cold work environments and reduces strike vibration
- Semispherical striking area controls mushrooming to help reduce chipping and splitting
- Cutting edges on chisels are hand ground to consistently produce a quality edge
- Black oxide coated
- Manufactured from special alloy steel that is differentially heat treated to increase durability



PCSG812

PPSG103

PPSG4

PPSG203

Set Contains:



PPCSG710

Stock No.	Description	Point/Edge, inch	Length, inch	
PCSG812	Flat Chisel	3/8	6 1/8	•
PCSG816	Flat Chisel	1/2	6 1/8	•
PCSG820	Flat Chisel	5/8	6 1/8	•
PPSG4	Center Punch	3/16	6 1/8	•
PPSG103	Pin Punch	3/32	6 1/8	•
PPSG105	Pin Punch	5/32	6 1/2	•
PPSG106	Pin Punch	3/16	6 1/2	•
PPSG203	Starter Punch	3/32	6 1/8	•
PPSG205	Starter Punch	5/32	6 1/8	•
PPSG206	Starter Punch	3/16	6 1/8	•



PPC14LB

Oval Bearing Race Punches

High alloy steel makes these tools ideal for stubborn bearing races.
PPC704BK Punch Set. Includes PPC6LB thru PPC20LB (4 pcs).
PPC6LB 7/16" hex stock, 7/16" x 15/64" oval point, 6" long.
PPC10LB 1/2" hex stock, 1/2" x 17/64" oval point, 10" long.
PPC14LB 9/16" hex stock, 9/16" x 19/64" oval point, 14" long.
PPC20LB 9/16" hex stock, 5/8" x 5/16" oval point, 20" long.



PGH8A

Gasket Punch Set

PGH8A Gasket Punch Set.

- Cuts holes in gaskets and other soft materials
- Includes (5) 3/8" long mandrel and (10) punches: 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8 and 1" in a storage case



GA1

Bushing Cutter

GA1 Bushing Cutter (7 1/4" long).

- Made of 1/2" octagonal stock with a 7/16" x 1/8" bit
- Curved bit pushes material away from work



YA900



YA879A

Automatic Centering Punches (Blue-Point)

YA900 Automatic Center Punch (4 3/4" long).

- Strikes blow when pressure is applied, no hammer needed
- Cap adjusts force of blow
- 7/16" diameter

YA879A Heavy Duty Automatic Center Punch (5" long).

- Single hand operation
- Design eliminates need for striking with hammer
- Adjustable spring tension cap
- Hardened steel point is replaceable
- 1/2" diameter



YA8290A

Revolving Punch

YA8290A Revolving Punch (Blue-Point).

- Punch round holes in leather, rubber, plastic, canvas, gaskets and other similar materials
- 6 punch sizes included in tool: 5/64, 3/32, 7/64, 1/8, 9/64 and 5/32"



DPFT528A

Transfer Punch Set (Blue-Point®)

DPFT528A Transfer Punch Set.

- For transferring hole patterns
- Set includes punches from 3/32 to 1/2" in 1/64" increments plus 17/32"
- Each punch is marked with its size and manufactured from tempered steel to promote long tool life
- Metal index provides convenient storage
- Punches are 4 7/8" in length



GA237

Steel Stamping Sets (Blue-Point)

- Heat treated square stamp bodies
- Stored in 2 piece wooden containers

Set Stock No.	Characters	Number Stamps	Figure size, inches	Square body, inches	Length, inches
GA237	0-9*	9	3/16	5/16	2 7/16
YA817	0-9*	9	1/8	1/4	2 3/8
GA238	A-Z**	27	3/16	5/16	2 7/16
YA818	A-Z**	27	1/8	1/4	2 3/8

*One stamp serves as both 6 and 9.

**Also includes stamp for period.

HBFE Series Dead Blow Hammers

- Free flowing shot design to improve dead blow action while reducing rebound
- Compact head has larger surface striking area and heavier caps to improve delivered force by as much as 40 percent



HBFE32

Applications: Brake rotors, brake drum removal, ball joints (tie rod removal), tires, seal installation, loosen oil pans and covers, OE rims, axle insertion, piston installation and crank shaft end play

Standard

- Soft grip handle with ribbed, textured elastomer grip prevents hand slippage
- Composite handle shank improves balance while defusing shock and dampening vibration
- Improved thermoplastic urethane material is nonsparking and resistant to most shop chemicals

Stock No.	Weight, oz	Head Length, inches	Face Diameter, inches	Length, inches	Set Contains:
HBFE16	16	3 1/4	1 9/16	12	
HBFE24	24	3 3/4	1 3/4	12 3/4	•
HBFE32	32	4 1/4	2	13 1/2	•
HBFE48	48	4 3/4	2 1/4	15	•
HBFE56	56	5 7/16	2 3/4	15 3/4	

HBBD Series Ball Peen Hammers

- Freeflowing steel canister shot design to improve dead blow action while reducing rebound
- Soft grip handle with ribbed, textured elastomer grip prevents hand slippage
- Composite handle shank improves balance while defusing shock and dampening vibration



HBBD24

Applications: Rear drums, tie rods, U-joints rounded end, track bar rounded end, rivets, punch and chisel applications

Stock No.	Weight, oz	Head Length, inches	Face Diameter, inches	Length, inches
HBBD8	8	4	1	11 5/8
HBBD16	16	4 3/8	1 1/4	12 1/4
HBBD24	24	4 3/4	1 3/8	12 3/4
HBBD32	32	5 3/4	1 3/4	13 5/8
HBBD40	40	5 3/4	1 3/4	15 1/8



BC110B

Sledge

Stock No.	Weight, lb	Head Length, inches	Face Diameter, inches	Length, inches
BC7B	5	7	2 3/4	20
BC110B	8	7	2 3/4	30
BC114B	11 lb 8 oz	8	3 1/4	36

HBSE Series Slimline Dead Blow Hammers

Incorporates our new microcellular soft grip handle, a softer, more comfortable energy absorbing material.

- **Microcellular grip and composite shank** - Comfortable, secure grip and dampens the vibration to the user's hand.
- **Smaller face** - For more concentrated blows.
- **Longer head profile** - For extended reach.
- **Internal steel canister with free flowing shot design** - Delivers maximum dead blow action.
- **Mult-position hand grip** - Helps user "choke up" in tighter work areas.
- **Wide flare at end of handle** - Helps prevent hammer from slipping out of hand.



HBSE20

Applications: Main bearing caps, dust caps, smaller objects, custom bikes and tighter applications that standard dead blow hammers will not fit

Stock No.	Weight, oz	Head Length, inches	Face Diameter, inches	Length, inches
HBSE10	10	3 1/2	1 1/4	10 5/8
HBSE20	20	4 1/8	1 3/8	11 1/8
HBSE30	30	5 1/8	1 1/2	12 3/8



HLE24

Piston

- One piece urethane construction
- Full length canister increases head strength
- Made of material that won't damage the piston
- Shot filled head drastically reduces rebound

Stock No.	Weight, oz	Head Length, inches	Face Diameter, inches	Length, inches
HLE24	24	7 3/4	5 1/2	12 3/4



HSSD32

Dual Face Drilling

- Sustained impact and maximum striking force with almost no rebound
- Composite handle shank improves the hammer balance while defusing shock
- Free flowing steel head canister design improves dead blow action and reduces rebound
- Nonsparking, chemical resistant molded urethane covering
- Ribbed thumb rest allows user to choke up in tighter work areas

Stock No.	Weight, oz	Head Length, inches	Face Diameter, inches	Length, inches
HSSD32	32	5 3/8	1 3/4-1 3/8	11 1/2



WARNING



- Do not use urethane hammers near liquid oxygen
- Do not strike another hammer or other hardened object

- Do not use chipped, mushroomed or cracked hammers
- Strike squarely, avoid glancing blows
- Read safety precautions on pages W1 to W4

HAMMERS

Soft Face

HBBT Series

- Bronze tipped nonmarring hammer ideally suited for work on bushings, gears and transmissions.

- Microcellular grip

- Bronze tip



HBBT32

Applications: Bearings & race install, pinion & half shafts, distributor rebuilds, alternator and starter rebuilds, seal installation, body moldings and nonspark applications

Stock No.	Weight, oz	Head Length, inches	Head Diameter inches	Length, inches
HBBT16	16	3 3/4	1 3/8	12
HBBT24	24	4 1/4	1 3/8	12
HBBT32	32	4 1/2	1 1/2	12 3/4



Soft Blow (Blue-Point®)

BF623

- Designed to reduce marring and denting
- Use in assembly applications and on surfaces including metal, glass, plastic and wood
- Special polymer head resists dynamic fatigue, creep and compression set, even at extreme temperatures

Stock No.	Face Dimensions, inches	Head Color	Length, inches
BF623	1 7/8 x 2 1/8	Blue	12 1/2



BF620C

BF620C Rubber Head Mallet (Blue-Point)

- Solid rubber head is 3 3/4" long and 2 1/4" in diameter
- 11" hardwood handle
- Ideal for replacing hubcaps, bodywork, etc.



HSP16KT

Interchangeable Head (Blue-Point)

- Shot loaded, dead blow hammer adds more striking force by eliminating rebound and dampening vibration shock
- 1 1/2" striking face diameter on each hammer head
- Six interchangeable heads meet a number of various applications, including nonmarring and nonsparking applications with selected head surfaces
- Comfortable, nonslip handle grip
- Set includes 10" fiberglass handle and storage case
- 1" head extender is optional

Set Contains:

Stock No.	Description	Color	Weight, oz	
HSP16KT1	Hammer Handle		22	•
HSP16KT2	Soft Face	Brown	1.5	•
HSP16KT3	Medium Face	Red	1.4	•
HSP16KT4	Medium Hard Face	Cream	1.3	•
HSP16KT5	Hard Face	Black	1.3	•
HSP16KT6	Steel Face	Steel	2.2	•
HSP16KT7	Brass Face	Brass	2.2	•
HSP16KT8	Plastic Storage Case	Black		•
HSP16KT9	1" Head Extender			

HBPT Series

- Plastic tipped hammers used where metal to metal scratching or marring needs to be eliminated

- Plastic tip

- Microcellular grip



HBPT24

Applications: Transmission work, rear end work, metal body moldings and light tapping

Stock No.	Head Length, inches	Weight, oz	Length, inches	Soft Tip Stock No.	Hard Tip Stock No.
HBPT16	3 3/4	16	12	HPTS16	HPHT16
HBPT24	4 3/4	24	12 3/4	HPTS24A	HPHT24A



HSPD16



BH232A

Combination

- Combination steel and soft face dead blow
- 1 pc urethane construction
- Replaceable tips

Stock No.	Head Length, inches	Weight, oz	Tip Diameter, inches	Length, inches	Soft Tip Stock No.	Hard Tip Stock No.
HSPD16	4 3/8	16	1 1/4	12 1/8	HPTS16	
BH232A*		32	1 5/8	13	BH232-2	BH232-3

BH232-4 Optional nylon tip (also available)

*(Blue-Point)



HBR15

Brass (Fiberglass Handle) (Blue-Point)

- Nonsparking/nonmarring surface for many applications
- Brass head absorbs blow and reduces rebound
- Flat surface for even distribution of blow
- Comfortable, nonslip handle grip

Stock No.	Weight, lbs	Length, inches
HBR15	1 1/2	12
HBR25	2 1/2	12
HBR4	4	12

HCL16 Claw Hammer, 16 oz.

- Drop forged carbon steel head
- Oversized striking surface
- Polyurethane leather improves grip and offers abrasion resistance and low temperature flexibility for unparalleled comfort
- Antishock core reduces vibration and hand fatigue
- 1 pc construction delivers increased strength



HCL16

Ball Peen (Blue-Point®)



BP16B

Ball Peen (Hickory Handle)

Set Contains: BP1004S

Stock No.	Weight, oz	Handle Length, inches	Replacement Handle	
BP2B	2	9 1/2	BPH2C	
BP4B	4	10 1/2	BPH4C	
BP8B	8	12 1/2	BPH8C	•
BP12B	12	13 1/2	BPH12C	•
BP16B	16	14 1/2	BPH16C	•
BP20B	20	15	BPH20C	
BP24B	24	16	BPH24C	•
BP32B	32	16	BPH40C	
BP40B	40	16 1/4	BPH40C	
BP48B	48	16 1/4	BPH40C	

ASME/ANSI® B107.400



BPN16B

Ball Peen (Fiberglass Handle)

Stock No.	Weight, oz	Handle Length, inches	Replacement Handle	Previous Model Handle
BP8B	8	11	BPNH8B	BP8B-1
BP12B	12	12	BPNH12B	BP12B-1
BP16B	16	13	BPNH12B	BP16B-1
BP24B	24	14	BPNH24B	BP24B-1
BP32B	32	16	BPNH24B	BP24B-1

ASME/ANSI B107.400

Heavy Duty



HCB2S



HCS2S

Dual Face Dead Blow (Fiberglass Handle)

- 100% cast polyurethane face is designed to withstand the most severe striking applications
- Nonsparking/nonmarring brass face for multiple applications
- Nonferrous shot loaded cavity delivers more power and less rebound than any hammer of its kind
- Abrasion and Impact Resistant
- Chemical Resistant
- Comfortable, nonslip handle grip
- Applications: aerospace, automotive, metal fabrication, petrochemical, electronics, industrial assembly, construction, oil and mining

Stock No.	Weight, lbs (kg)	Face Diameter, inch (mm)	Handle Length, inch (mm)	Overall Length, inch (mm)
HCB2SG	2 (.91)	2 (50.8)	10 5/8 (270)	13 3/4 (349)
HCS2SG	2 (.91)	2 (50.8)	10 5/8 (270)	13 3/4 (349)

Meets or exceeds all ANSI specifications

BC/BD/HD Series Heavy Duty (Fiberglass Handle) (Blue-Point)

- Dampens vibration and provides strength and safety
- Handle is resistant to dry rot, warp and splintering
- Fiberglass handle dampens vibration and provides extra strength and safety
- Handle is epoxy welded to hammer head and will withstand 8,000 lbs of separation force
- Comfortable, nonslip handle grip
- Materials will resist most shop chemicals



Stock No.	Description	Weight, lbs	Striking Face Diameter, inches	Handle Length, inches	Overall Length, inches	Replacement Handle
BC4SG	Cross Peen	4	1 1/2	12	14	BD4SG-1
BD4SG	Engineer	4	1 1/2	12	14	BD4SG-1
HD4SG	Hand Drilling	4	1 1/2	8 3/4	10 3/4	HD4SG-1

BD Series Sledge Hammers

- Handles - Tensile strength of 200,000 pounds per square inch.

- Drop forged carbon steel heads - Heat treated for durability & safety.



BD10ES

- Fiberglass handles - Welded into the sledge eye-hole to withstand 8,000 pounds of separation force.

- Ergonomic grip - Provides a superior gripping surface, helping to dampen & absorb vibration.

Sledge (Fiberglass Handle) (Blue-Point)

Stock No.	Weight, lbs (kg)	Face Diameter, inch (mm)	Handle Length, inch (mm)	Overall Length, inch (mm)	Replacement Handle
BD6ESG	6 (2.7)	1 5/8 (41.1)	16 (406.4)	18 (457.2)	BD6ESG-1
BD10ESG	10 (4.5)	2 (50.8)	29 (736)	32 (812.8)	BD8ESG-1

- Durable handles - Will not dry rot, warp or splinter from exposure to the elements and resists most shop chemicals.



BH Series Heavy Duty (Hickory Handle) (Blue-Point)

Stock No.	Description	Weight, oz	Head Length, inches	Overall Length, inches	Replacement Handle
BH122D	Engineer	40	4 1/2	15	BPH40C
BH123D	Engineer	48	4 3/4	15	BPH40C
BH141A	Cross Peen	32	4 1/2	15	BPH20C
BH142A	Cross Peen	40	5	15	BPH40C
BH143A	Cross Peen	48	5 1/2	15	BPH40C
BH133B	Hand Drilling	48	4 1/2	10	BPH133



WARNING



- Do not use urethane hammers near liquid oxygen
- Do not strike another hammer or other hardened object
- Do not use chipped, mushroomed or cracked hammers

- Strike squarely, avoid glancing blows
- Read safety precautions on pages W1 to W4

CUTTING

Hacksaws



HSG325

HSG325 Professional Hacksaw.

- Ergonomic front grip for increased comfort and control
- Thermoplastic comfort grip handle
- Quick blade loading, spring loaded tensioning mechanism for quick blade changes
- Dual blade positioning, alternative 55° blade mounting for flush cutting
- High blade tension for straighter, more accurate and faster cuts



HSG319

HSG319 Bi mold Handle Hacksaw.

- Solid steel frame overmolded with soft grip for comfortable use
- Designed for 12" (300 mm) blades
- Blade tensioner discreetly blends with handle
- Positions for normal flush cutting or 55° angle



HS5A

HS5A Mini Hacksaw.

- Designed for 10" (250 mm) blades
- 8 1/4" frame fits in limited access areas
- Includes HSBM1024B 10" blade



HS151

HS151 Junior Frame Hacksaw.

- Designed for 6" blades
- 9 1/2" long
- Blade included

HSM632 6" Replacement Blade (32 TPI).

- 1/4" wide, 32 teeth per inch, 6" length
- Package of 5



HS50

Quick Cutter Hand Saws

- Features contoured screwdriver type handle for a secure grip
- Saw holder keeps a tight hold on any of the 3 included blades
- Turn the knurled knob and easily switch blades
- All components neatly packaged in CO417 kit bag



HSKIT

HSKIT Handsaw Kit.

- Ergonomic handle design reduces pressure points and stops hand from sliding
- Handle angle and position of handle to blade teeth reduces sawing forces and increases efficiency
- High quality aluminum body ensures rigidity and retaining/protecting locking mechanism
- Locking system helps reduce play between handle and blade when assembled
- Easy access to lever through handle opening
- Long lever for easy lock and release: security spring locks lever

Includes:

HSEXRL Handle.

HSEX16 General Purpose Blade.

HSEX22 Coarse Wood Blade.

Hacksaw Blades

- Shatter resistant bimetal for a long life and fast, efficient cutting
- Available in packages of 10 only

Stock No.	Length, inches	Teeth per Inch
HSBM1018B	10	18
HSBM1024B	10	24
HSBM1032B	10	32
HSBM1214B	12	14
HSBM1218B	12	18
HSBM1224B	12	24
HSBM1232B	12	32

HS50 Quick Cutter Hand Saw.

- Includes: HS14X1, HS18X1 and HS24X1

HS14X1 General Purpose Blade.

- For metal over 1/8", hard rubber and fiber

HS18X1 Fine Metal Cutting Blade.

- For metal 18 gauge to 1/8", nail embedded wood

HS24X1 Heavy Metal Cutting Blade.

- For metal 18 gauge and under trim and tubing, plus galvanized pipe under 18 gauge



HSEXRL

Scissors/Multi Tools



YA114

Scissors

YA114 Stainless Scissors (Blue-Point®).

- High quality stainless steel
- Compact: 3" long

KER1120 Taskmaster Shears.

- High carbon stainless steel blades designed to hold their edge longer and sharpen quickly
- Blades are permanently bonded to comfortable, nonslip handles
- Overall length 9"



KER1120



PRN8P

Pruning Tools

PRN8P Hand Pruner.

- Slicing cutting action requires minimal effort
- High quality carbon steel blades with precision ground edges keep the blade sharp longer
- Glass fiber handle is lighter than aluminum yet stronger than steel
- Strong rubber bumper absorbs shock
- Smooth spring keeps blade in open position while providing minimal resistance in cutting action
- Blades can be locked in closed position



PRN75SFS

PRN75SFS Folding Pruning Saw.

- General purpose folding saw for cutting wood or plastics
- 2 component plastic handles for firm grip
- Blade specially coated for low friction and rust protection
- Blade locks in both open and closed position

Sharpeners



GAT10005



GAT10004



GAT10003



GAT8T001



GAT60204



KER2535



GAT60016



GAT40001



GAT80005



SCKS1

Sharpening Kits

GAT10005 Professional Knife Sharpening System.

- Knife clamp/angle guide for 6 precise sharpening angles and secure knife clamping to ensure efficient blade to stone contact
- Includes extra coarse, medium and fine honing stones, specially serrated blade sharpening stone, honing oil and custom case

GAT10004 Diamond Hone Knife Sharpening System.

- Fusing diamonds to metal substrate of the hones yields a sharpening instrument to outperform others
- Includes extra coarse, medium and fine monocrystalline honing stones, honing oil and custom case
- Knife clamp/angle guide for 6 precise sharpening angles and secure knife clamping to ensure efficient blade to stone contact

GAT10003 Standard Knife Sharpening System.

- Knife clamp/angle guide for 6 precise sharpening angles and secure knife clamping to ensure efficient blade to stone contact
- Includes extra coarse, medium and fine honing stones, honing oil and custom case

GAT8T001 Tri hone Knife Sharpening System.

- Coarse silicon carbide stone for setting the bevel on dull or badly damaged blades
- 100% natural Arkansas stones: medium stone for sharpening and fine stone for polishing
- Honing oil included
- All stones mounted on natural wood triangle to provide elevated work surface

GAT80005 Stone Knife Sharpening Kit.

- Includes block mounted natural Arkansas stone: 5" for sharpening, 3" for final honing
- Includes honing oil and convenient storage case

KER2535 Blade Sharpener.

- Embedded with 600 grit diamond coating, bonded with nickel plating to a lightweight tube
- Length is 8.5" (20.3 cm); sheath is 5.5" (12.7 cm)

GAT60204 Pocket Knife Sharpener.

- Compact, lightweight sharpener with side by side rod for knives, fish hooks, darts and serrated edges
- Edge holds 2 rods and an angle guide to allow proper angle for serrated blades
- High density alumina rods are removable for cleaning and repositioning
- Measures 2.40" x 2.12" x .45"

GAT60016 TRI-SEPS® Knife Sharpener.

- Triangular shaped, portable sharpener features built-in angle guide
- Restore edges to serrations, plain edges, entrenching tools, scissors, darts, fish hooks, ice picks and more
- Includes bead chain and clasp
- Premium grade 96% alumina ceramic
- Overall length: 4.5" (115 mm)

GAT40001 Carbide Knife Sharpener.

- Tungsten carbide blade
- Lightweight 6061 T6 aluminum body features a flat bottom and knurled handle with thumb and finger insets
- Not recommended for serrated edges

GAT12001 Clamp Mount.

- Holds knife clamp/angle guide from GAT10004 and GAT10003 systems to maximize ease of sharpening
- Useful when sharpening large or numerous knives in succession
- Can be permanently mounted to any work surface or C-clamped for portability

SCKS1 Carbide Knife Sharpener.

- Preset angle simplifies sharpening of all blades (except serrated)
- Slip resistant rubber base pads increase steadiness in sharpening position
- Lightweight 1.7 oz
- Compact, 1.8" x 2.2" x .25"
- Strong 6061-T-6 aircraft aluminum frame
- Tungsten carbide sharpening element will sharpen the toughest blades



WARNING



- Keep away from children
- Read safety precautions on pages W1 to W4

CUTTING

Knives



KER1004RDSO



KER1060RT



KER1475



KER1600SO



KER1660CKTSO



KER1660VIB



KER1660CBSO



KER1670RDSO

Stock No.	Description	Blade Type (Straight/Serrated)	Blade Length, inches	Closed Length, inches	Opening Mechanism
KER1004RDSO	Caribiner Tool	Partially Serrated	3 1/4	4 1/8	Manual
KER1060RT	Black Horse II	Straight Edge	3 3/4	4 7/8	Manual
KER1475	Storm II	Straight Edge	3 1/2	4 3/4	Manual
KER1550	Blackout	Straight Edge	3 1/4	4 1/2	Assisted (<i>SpeedSafe</i>)
KER1550ST	Blackout	Partially Serrated	3 1/4	4 1/2	Assisted (<i>SpeedSafe</i>)
KER1600SO	Chive	Straight Edge	1 15/16	2 7/8	Assisted (<i>SpeedSafe</i>)
KER1620RDSO	Scallion	Straight Edge	2 1/4	3 1/2	Assisted (<i>SpeedSafe</i>)
KER1620BLSO	Scallion	Straight Edge	2 1/4	3 1/2	Assisted (<i>SpeedSafe</i>)
KER1620GNSO	Scallion	Straight Edge	2 1/4	3 1/2	Assisted (<i>SpeedSafe</i>)
KER1620ST	Scallion	Partially Serrated	2 1/4	3 1/2	Assisted (<i>SpeedSafe</i>)
KER1660CKTSO	Leek	Straight Edge	3	4	Assisted (<i>SpeedSafe</i>)
KER1660BRSO	Leek	Straight Edge	3	4	Assisted (<i>SpeedSafe</i>)
KER1660VIB	Rainbow Leek	Straight Edge	3	4	Assisted (<i>SpeedSafe</i>)
KER1660CBSO	Leek Composite	Straight Edge	3	4	Assisted (<i>SpeedSafe</i>)
KER1670BLK	Blur	Straight Edge	3 3/8	4 1/2	Assisted (<i>SpeedSafe</i>)
KER1670BLKST	Blur	Partially Serrated	3 3/8	4 1/2	Assisted (<i>SpeedSafe</i>)
KER1670RDSO	Blur	Straight Edge	3 3/8	4 1/2	Assisted (<i>SpeedSafe</i>)
KER1670RDST	Blur	Partially Serrated	3 3/8	4 1/2	Assisted (<i>SpeedSafe</i>)
KER1670TBLKT	Blur	Partially Serrated	3 3/8	4 1/2	Assisted (<i>SpeedSafe</i>)
KER1725	Junkyard Dog II	Straight Edge	3 3/4	4 7/8	Manual
KER1730	Groove	Straight Edge	3 1/2	4 1/2	Manual
KER1820	Needs Work	Straight Edge	3	4 1/8	Assisted (<i>SpeedSafe</i>)
KER1820ALSO	Needs Work	Straight Edge	3	4 1/8	Assisted (<i>SpeedSafe</i>)



KER1620ST



KER1550ST



KER1550



KER1725



KER1620RDSO



KER1670TBLKT



KER1730



KER1820



KER1820ALSO

Stock No.	Blade Materials	Handle Material	Lock Type	Weight (oz.)	Features
KER1004RDSO	AUS6A S/S	Teflon Coated Aluminum	Liner Lock	2.7	Includes flat head, <i>Phillips</i> , bottle opener, and carabiner clip
KER1060RT	440A S/S	Co polymer with <i>RealTree Hardwoods HD</i>	Back Lock	4.6	Includes Sheath
KER1475	Sandvik 13C26 S/S	410 S/S with <i>Trac-Tec</i> inserts	Frame Lock	5.8	Thumb Stud, Pocket Clip
KER1550	Sandvik 13C26 S/S	Polyimide	Liner Lock	3.5	Thumb Stud, Pocket Clip, Tungsten DLC Blade Coating
KER1550ST	Sandvik 13C26 S/S	Polyimide	Liner Lock	3.5	Thumb Stud, Pocket Clip, Tungsten DLC Blade Coating
KER1600SO	420HC S/S	410 S/S	Frame Lock	1.9	Thumb Stud, Pocket Clip, Tip Lock
KER1620RDSO	420HC S/S	6061-T6 AA	Liner Lock	2.3	Thumb Stud, Pocket Clip, Red Finish, <i>Snap-on</i> Logo
KER1620BLSO	420HC S/S	6061-T6 AA	Liner Lock	2.3	Thumb Stud, Pocket Clip, Blue Finish, <i>Snap-on</i> Logo
KER1620GNSO	420HC S/S	6061-T6 AA	Liner Lock	3.3	Thumb Stud, Pocket Clip, Green Finish, <i>Snap-on</i> Logo
KER1620ST	420HC S/S	Polyimide	Liner Lock	2.3	Thumb Stud, Pocket Clip
KER1660CKTSO	Sandvik 13C26 S/S	6061-T6 AA	Liner Lock	3.0	Thumb Stud, Pocket Clip, Black Finish, Tungsten DLC Coating, <i>Snap-on</i> Logo
KER1660BRSO	Sandvik 13C26 S/S	6061-T6 AA	Liner Lock	3.0	Thumb Stud, Pocket Clip, Black/Red Smoked Finish
KER1660VIB	Sandvik 13C26 S/S	410 S/S	Frame Lock	3.0	Thumb Stud, Pocket Clip, Titanium Oxide Coating
KER1660CBSO	Sandvik 13C26/CPM-D2	410 S/S	Frame Lock	3.0	Thumb Stud, Pocket Clip, Composite Blade
KER1670BLK	Sandvik 13C26 S/S	6061-T6 AA with <i>Trac-Tec</i> inserts	Liner Lock	4.2	Thumb Stud, Pocket Clip, Black Finish, Blade Coating
KER1670BLKST	Sandvik 13C26 S/S	6061-T6 AA with <i>Trac-Tec</i> inserts	Liner Lock	4.2	Thumb Stud, Pocket Clip, Black Finish, Blade Coating
KER1670RDSO	Sandvik 13C26 S/S	6061-T6 AA with <i>Trac-Tec</i> inserts	Liner Lock	4.2	Thumb Stud, Pocket Clip, Red Finish, <i>Snap-on</i> Logo
KER1670RDST	Sandvik 13C26 S/S	6061-T6 AA with <i>Trac-Tec</i> inserts	Liner Lock	4.2	Thumb Stud, Pocket Clip, Red Finish
KER1670TBLKT	Sandvik 13C26 S/S	6061-T6 AA with <i>Trac-Tec</i> inserts	Liner Lock	4.2	Thumb Stud, Pocket Clip, Black Finish, Tanto Blade, <i>Snap-on</i> Logo (Same as KER1670TBLKSTSO)
KER1725	Sandvik 13C26 S/S	G-10 Composite	Liner Lock	5.2	Pocket Clip
KER1730	Sandvik 13C26 S/S	410 S/S with G-10 overlays	Frame Lock	5.2	Pocket Clip, Grooved Blade
KER1820	Sandvik 13C26 S/S	Polyimide	Liner Lock	3.5	Pocket Clip
KER1820ALSO	Sandvik 13C28 S/S	6061-T6 AA	Liner Lock	3.5	Pocket Clip

Abbreviations: S/S - Stainless Steel AA - Anodized Aluminum



WARNING



- Keep away from children
- Read safety precautions on pages W1 to W4

CUTTING

Utility Knives



Utility Knives

YA403A Miniature Utility Knife (Blue-Point®).

- 1 spare blade stores in handle
- 3 1/8" long

YA403A-1 Replacement Blade.

- Use with YA403A

UTK100 Utility Knife.

- Retractable blade
- Quick release, spring loaded handle provides fast, sure blade changes
- Integrated hinge handle means no handle parts to lose and no tools required to change blades
- Rubber grip for comfort and control
- 3 blade positions: open, half closed and closed

UTK100SB Utility Knife.

- Auto retracting
- Quick release, spring loaded handle provides fast, sure blade changes

- Rubber grip for comfort and control
- Includes one safety point, 2 notch blade

UKBU10 Utility Knife Blades.

- 2 notch double pointed blades (10 pack)
- Use with UTK100, UTK100SB, UTK150, LBUK1, and LBUK2 utility knives

UKBU50PK Utility Knife Blades.

- 2 notch double pointed blades (50 pack)
- Dispenser ejects blades one at a time
- Blade guard in the ejector
- Use with UTK100, UTK100SB, UTK150, LBUK1 and LBUK2 utility knives

YA1850A Utility Knife Blades (Blue-Point).

- 100 3 notch, double pointed utility blades in bulk packaging

YA1800A Single Edge Razor Blades (Blue-Point).

- 100 blades in a plastic dispenser
- Blades have aluminum backs that can be shaped for special applications

LBUK1 Lock Back Utility Knife (Blue-Point).

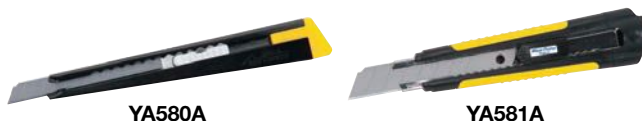
- Convenience and good looks of a folding lock back knife with easily replaceable 2 notch razor blades
- Folding lock back blade, hardwood handle with belt clip and thumb stud for 1 hand opening
- Includes utility knife and leather pouch (both with Blue-Point logo) plus 10 replacement blades
- Uses UKBU10 (10 pack) or UKBU50PK (50 pack) replacement blades

LBUK2 Lock Back Utility Knife (Blue-Point).

- Thumb pad allows controlled application of pressure
- Blades are easily replaced with a flip of the switch
- Blade storage under spring loaded door
- Includes leather pouch with belt loop plus 5 replacement blades
- Uses UKBU10 (10 pack) or UKBU50PK (50 pack) replacement blades

UTK150 Auto Loading Utility Knife.

- Exposed blade is easily removed or reversed with the push of a button
- New blade is auto loaded from 5 blade magazine
- Cushioned handle provides comfort and control
- 3 blade positions: 1" and 1/4" exposures and closed
- Uses standard 2 notch replacement blades



Multipurpose Cutters (Blue-Point)

YA580A Multipurpose Cutter.

- Auto locking, fully retractable blade
- Metal body is black with blue cap and pocket clip
- Includes (1) premium steel 13 point snap blade
- Overall length of 5 3/8"
- Uses YA580A-1 replacement blades

YA580A-1 Replacement Blades.

- Individual break off replacement blades for the YA580A and YA584A multipurpose cutters
- Pack of 5

YA581A Multipurpose Cutter.

- 3 blades with eight snap off points
- Minimum blade wobble
- Fully retractable

YA581A-1 Blades.

- Replacement blades for YA581A
- 10 pack



Hobby Knife (Blue-Point)

YA405A Hobby Knife.

- 5 1/2" long aluminum handle with bottom knurl and knurled brass nose cap
- Includes the following blades: YA405-1, YA405-2, YA405-3, YA405-4

YA405-1 23° Angle Blade.

YA405-2 50° Angle Blade.

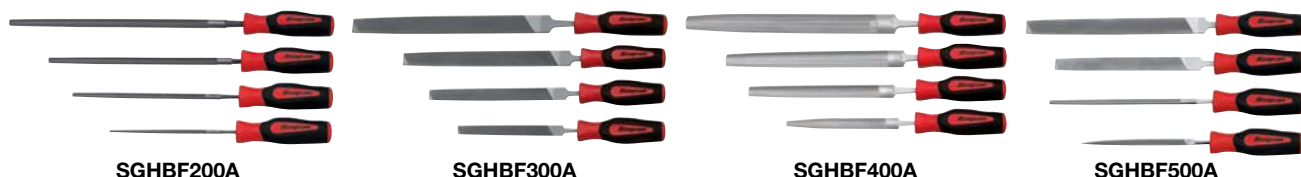
YA405-3 Curved Edge Blade.

YA405-4 Straight Chisel Edge Blade.

Comfort



Instinct®



Bastard Cut Individual Files

Additional mill file sizes are also available.

					Set Contains:	SGFRD104	SGFMA104	SGFHR104	SGFMX104	SGHBF200A	SGHBF300A	SGHBF400A	SGHBF500A
	Stock No.	Diameter, inches	Cut	Length, inches	Comfort Grip	Comfort Grip	Comfort Grip	Comfort Grip	Instinct	Instinct	Instinct	Instinct	
Round Files	6R	7/32		6					•				
	8R	9/32		8					•			•	
	10R	3/8		10					•				
	12R	1/2		12					•				
	SGF6R			6	•								
	SGF8R			8	•			•					
	SGF10R			10	•								
SGF12R			12	•									
Mill Files	6MA		5 1/2	6						•			
	8MA		7 1/2	8						•			
	10MA		9 1/2	10						•		•	
	12MA		11 1/2	12						•			
	14MA		13 1/2	14									
	SGF6MA			6		•							
	SGF8MA			8		•		•					
SGF10MA			10		•		•						
SGF12MA			12		•								
Half Round Files	6HR			6								•	
	8HR			8								•	
	10HR			10								•	
	12HR			12								•	
	SGF6HR			6				•					
	SGF8HR			8				•					
	SGF10HR			10				•					
SGF12HR			12				•						
Three Square File	6T		5 1/2	6					•				
	10T		9 1/2	10								•	
Instinct Handles	SGHF614BR								2	1	2	2	
	SGHF615BR								1	1	1	1	
	SGHF616BR								1	1	1	1	
	SGHF617BR									1			
Kit Bag					PAKKB069	PAKKB069	PAKKB069	PAKKB069	C0413A	C0414A	C0415A	C0416B	

Miniature Files

Stock No.	Description	Set Contains:
SGF4MA	Hand	•
SGF4W	Warding	•
SGF4HR	Half Round	•
SGF4SQ	Square	•
SGF4R	Round	•
SGF4T	Triangular, Slim Taper	•

Set Contains:
SGFMN106



SGFMN106



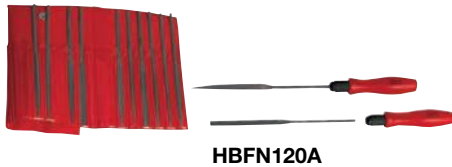
WARNING



- Keep away from children
- Read safety precautions on pages W1 to W4

FILES/SCRAPERS/PUTTY KNIVES

Files



HBFN120A

Swiss Needle

HBFN120A Set.

- 12 needle files with round, knurled handles
- Each is 5 1/2" long and "0" cut for coarse filing
- Packaged in a plastic pouch

HF611A File Handle.

- Plastic screwdriver collet style handle for holding individual files in HBFN120 set

Stock No.	Description
5NRA	Round
5NHRA	Half Round
5NFA	Flat
5NCA	Crossing
5NKA	Knife
5NSQA	Square
5NTSB	3 Square
5NEA	Equaling
5NBA	Barrette
5NJA	Joint
5NSA	Sitting
5NMA	Marking



6T



6CR



10FMK

3 Square Files

- 6T. 6" long, 5 1/2" cut length.
- 10T. 10" long, 9 1/2" cut length.

Single Cut Chain Saw Files

- 6CR. 6" long, 5/32" diameter. Uses HF611A file handle.
- 8CR. 8" long, 7/32" diameter.

Multicut Flat File

- 10FMK. 10" long.

Accessories



SGHF616BR



GA613



GA98A



YA337A

Soft Grip Handles

- For all bastard cut files that use replacement soft grip handle
- Feature twist on threads for securely holding files

Stock No.	For Files
SGHF614BR	4MA, 6R, 6T, 6MA, 6HR, 8CR, 8R
SGHF615BR	8T, 8MA, 8HR, 10R
SGHF616BR	10T, 10MA, 10HR, 12R
SGHF617BR	12MA, 12HR

Wooden Twist on Handles

- Wooden twist on handles with case hardened, threaded steel inserts
- Use on all bastard cut files on this page

Stock No.	For Files
GA613	4MA, 8CR, 6R
GA614	6T, 6MA, 6HR, 8R
GA615	8T, 8MA, 8HR, 10R
GA616	10T, 10MA, 10HR, 12R
GA617	12MA, 12HR
GA618	14MA, 16MA

GA98A Wooden Adjustable Jaw Handle (Blue-Point®).

- Provides a large, comfortable grip for all bastard cut files
- Adjustable jaws grip the file so it can turn
- Use on files 4 to 16" long
- 4 1/2" long, 1" in diameter, 3/8" maximum opening

YA337A File Cleaner.

- Bristle area of 3 1/2 x 1 1/2" with .013" (33 ga.) wire
- Wooden handle
- 7 1/2" long

Scrapers/Putty Knives



PKN500



PSN500

Nonmarring Scrapers/Tools

- Tips are matched for most popular applications including badge/emblem/decals removal, gasket and molding removal, adhesive removal and dirt and debris removal or cleaning
- Iass reinforced nylon provides strength
- Lightweight and resistant to most automotive fluids
- Useable with hammers (block end/tap into position)
- Avoids scratching or gouging of soft materials

PSN500 Nonmarring Tool Set.

- Unique selection of tip profiles for numerous prying, scraping, aligning, cutting and shielding applications
- Includes a cloth kit bag to organize and store tools
- Intended for general automotive use
- Do not use on surfaces such as glass or clear acrylics

Stock No.	Blade Style/Tip Profile	Blade Width, inches	Scrapers	Tools
PKN1	Straight	7/8	•	
PKN2	Straight	1 1/4	•	
PKN3	Curved	1 1/8	•	
PKN4	Angle	3/4	•	
PKN5	Curved	5/8	•	
PBN10	90° L			•
PBN11	Narrow Wedge			•
PBN12	Curve Cup			•
PBN14	Narrow Point			•
PKN7	Curve Tube			•
Kit Bag			C0100	C0100

Striking Scrapers

- Striking cap is designed for hammering
- Heavy duty blade extends through the handle and meets the cap to equally distribute the striking force
- Thick, polished, high carbon steel for durability
- Ergonomic soft grip handle for secure grip when striking
- Can be used as a chisel or scraper



PKNC301



PKNC300

Stock No.	Description	Blade Width, inches	Set Contains:	PKNC301	PKNC300
PKNC125C2	Dual Bevel	1 1/4	•	•	•
PKNC150	Single Bevel	1 1/2	•	•	•
PKNC200	Single Bevel	2	•	•	•
PKNC050	Single Bevel	1/2	•		
PKNC075C2	Dual Bevel	3/4	•		
PKNC075	Single Bevel	3/4	•		

PKNC125C2 Striking Scraper (1-1/4"). Dual bevel design for two distinct blade lengths.

SCRAPERS/PUTTY KNIVES

Scrapers and Putty Knives



Rigid Carbon Scrapers

- 1/4" square shanks are flared to form scraping edge
- Classic screwdriver type handle

Stock No.	Handle Color	Length, inches	Blade Width, inches	Blade Style	Set Contains:		
					CSA300A	CSA300AD	CSA300AR
CSA8C	Black	7 5/8	7/8	Straight	•		
CSA8CO	Orange	7 5/8	7/8	Straight		•	
CSA8CR	Red	7 5/8	7/8	Straight			•
CSA12C	Black	12 7/8	1	Straight	•		
CSA12CO	Orange	12 7/8	1	Straight		•	
CSA12CR	Red	12 7/8	1	Straight			•
CSA14C	Black	14 1/8	1 1/2	Straight	•		
CSA14CO	Orange	14 1/8	1 1/2	Straight		•	
CSA14CR	Red	14 1/8	1 1/2	Straight			•



Knife Blade Scrapers (Blue-Point®)

- Remove gaskets, sealers and other caked on materials
- Blade edge designed to work effectively in both push and pull directions
- Stainless steel blades for durability
- Polished blades clean up easily
- Comfortable composite handles feature a contour thumb stop for maximum control and a wide hilt for control

Stock No.	Blade Style	Blade Length, inches	Length, inches	Set Contains:	
				USS103	
US710	Spoon	3 3/8	8	•	
US711	Chisel Tip	2 1/2	7 1/8	•	
US712	Oyster	2 1/8	6 3/4	•	



Putty Knives/Scrapers (Blue-Point)

- Full length steel blades for strength and durability
- Soft molded rubber handles maximize hand grip, are easy to clean and resistant to most solvents
- Broad hilt design helps protect against hand slipping when scraping

Stock No.	Blade Length, inches	Blade Width, inches	Blade Style	Edge	Set Contains:	
					PK500A	
PK50A	3 1/2	2	Flexible	Straight	•	
PK52A	3 19/32	1 1/4	Flexible	Straight	•	
PK53A	3 19/32	1 1/4	Stiff Chisel	Single Bevel	•	



Brass Putty Knives/Scrapers (Blue-Point)

- Spring tempered, solid brass blades are nonmarring, nonsparking, nonmagnetic and noncorrosive
- Soft molded rubber handles maximize hand grip, are easy to clean and are resistant to most solvents
- Broad hilt design helps protect against hand slipping when scraping
- Stiff blade style

Stock No.	Handle Length, inches	Blade Length, inches	Blade Width, inches	Blade Style	Edge	Set Contains:	
						PKB500A	
PKB50A	4 7/8	3 1/2	2	Stiff	Straight	•	
PKB52A	4 7/8	3 19/32	1 1/4	Stiff	Straight	•	
PKB53A	4 7/8	3 19/32	1 1/4	Stiff	Single Bevel	•	



Walnut Handled Scrapers (Blue-Point)

- Quality crafted for hard scraping applications
- Walnut wood handle for comfort
- Full length heavy duty blades for strength
- Large steel cap for striking capability
- Remove gaskets, sealants and body weld breakaway

Stock No.	Blade Length, inches	Blade Width, inches	Blade Style	Edge	Length, inches	Set Contains:	
						PKWHD53A	
PKWBS53A	3	1 1/4	30° Bent	Chisel	7 1/2	•	
PKWLR53A	5 1/2	1 1/4	Straight	Chisel	9 1/2	•	
PKWSS53A	2 3/4	1 1/4	Straight	Chisel	6 3/4	•	



Maple Handle Putty Knife (Blue-Point)

- Mirror finished hardened steel blade extends through hardwood handle, solidly riveted for durability
- Maple handle has metal bolster where handle meets blade

Stock No.	Handle Length, inches	Blade Width, inches	Blade Style	Edge
PK23A	3 7/8	1 1/4	Heavy Chisel	Single Bevel



WARNING



- Keep away from children
- Read safety precautions on pages W1 to W4

SCRAPERS/PUTTY KNIVES/EXHAUST

Scrapers



CS1



PK70



MS3000



PKRS1

Scrapers

CS1 Flexible Wire Carbon Scraper.

- 10 blades made of oil tempered spring steel
- Sliding ferrule is used to adjust to the required flexibility

PK70 Multipurpose Scraper (Blue-Point®).

- Use for gasket removal, deburring, car body work and rust removal
- Durable tungsten carbide blades
- Ergonomic handle reduces fatigue
- Thumbgrip allows precision scraping

PK70TRI Replacement Blade. For PK70.

PK70ROUND Replacement Blade. For PK70.

PK70DROP Replacement Blade. For PK70.

PK70PEAR Replacement Blade. For PK70.

MS400 Compact Scraper (4") (Blue-Point).

- Removes stickers, molding paint and decals
- Use with standard, single edge steel or plastic razor blades
- Quick and easy blade changes
- Angled head provides maximum leverage

- 4" long

MS800 Standard Scraper (8") (Blue-Point).

- Same as MS400 except 8" long

MS1300 Long Scraper (13") (Blue-Point).

- Same as MS400 except 13" long

MS3000 Scraper Set (Blue-Point).

- Includes MS400, MS800, MS1300 and MSRPACK5 in storage case

PKRS1 Ergo Grip Razor Scraper (Blue-Point).

- 3 blade positions: closed, open and loading
- Rubberized contour grip provides comfort and a sure gripping surface
- Uses YA1800 Replacement Blades

Cutters, Expanders and Special Tools



VGP18210



TC90A



YA1300



YA3202

Cutters (Blue-Point)

VGP18210 Chain Pipe Cutter.

- Quickly and easily cuts exhaust pipes with 13 alloy cutting wheels in chain
- Cuts stainless steel, copper and PVC piping from 15 mm up to 75 mm (19/32 to 2 15/16") in diameter, up to 2.6 mm (3/32") wall thickness
- Locking mechanism helps avoid lateral movement and misaligned cutting
- Large butterfly screw allows application of greater force to cutting wheels with each series of cuts

VGP18210-1 Replacement Chain.

- For VGP18210

TC90A Tail Pipe Cutter.

- Handles on the car cutting from 3/4 to 3 1/2" diameter
- 16 link cutter chain is 12" long
- Threaded shaft with cross piece provides elasticity to help prevent chain wheels from breaking
- Ideal for cutting the strut assembly to enable servicing of the strut cartridge

TC90A1 Chain Assembly.

- Includes 1 wheel and 1 roll pin

Exhaust Tools (Blue-Point)

YA1300 Manifold Jack (set of 2).

- Use to expand manifold to its original shape and bolt hole alignment
- Use with a 3/4" open end wrench

YA3202 Exhaust Hanger Removal Pliers.

- Remove hanger brackets from rubber mounting straps by placing jaw behind rubber grommet ring and forcing pin of pliers on the end of steel hanger
- When handles are squeezed, the forcing pin pushes the ring off the hanger
- 14" long

Applications: most U.S. and import cars and light trucks

Cutters, Expanders and Specialty Tools

Expanders

PH800 Tailpipe Expander with Collets.

- Simple and convenient set for tailpipe expansion jobs
- Using an impact wrench the pipe stretcher is a convenient, inexpensive alternative to hydraulic pipe expander
- Can be used right on the vehicle
- Includes PH300 and 5 aluminum collets
- Expands from 1 5/8 to 4 1/4"
- Includes molded storage case

PH300 Tailpipe/Exhaust Stretcher.

- Stretches all types of exhaust pipe, including stainless steel, from 1 5/8 to 2 7/16"
- Use with an impact wrench

CG5560HY Hydraulic Tailpipe/Exhaust Stretcher Conversion Kit.

- Converts PH300 tailpipe/exhaust stretcher to the convenience and power of hydraulic operation
- Includes the C 122 10 ton hydraulic ram and pump set and hydraulic cone adaptor

CG5560 Tailpipe/Exhaust Stretcher Conversion Kit.

- Add to C 122 10 ton hydraulic ram and pump set to add hydraulic power to the PH300
- Includes exhaust pipe and instructions



Cutters, Flaring and Bending

Cutters

TC15A Ratcheting Cutter.

- Ratchet action allows cutting all the way around the tubing by simply pumping the handle
- Handles 1/8 to 3/8" O.D. copper, plastic and PVC tubing
- Ideal for fuel, vacuum and air conditioning applications
- 3 7/8" long

TC15-7C Cutting Wheel.

- Standard replacement cutting wheel for TC15A tube cutter

TC15-HSS Small Cutting Wheel.

- High speed steel cutting wheel

TC28C Tubing Cutter (Blue-Point®).

- Cuts soft metal tubing ranging from 1/8 to 1" in diameter
- O.D. capacity is 1/8 to 1 1/8"
- Micrometer type adjustment
- Retractable locking reamer blade
- Cutter wheel is easily replaceable

TC28C1 Cutting Wheel.

- Extra cutter wheel for TC28C

TC123C Tubing Cutter (Blue-Point).

- Handles tubing from 1/8 to 5/8" O.D.
- Can be used where clearance around tubing is less than 1 3/8"
- 1 1/2" long when closed and 2" long when open; feed knob is 7/8" in diameter

TC123CR Ratcheting Tube Cutter (Blue-Point).

- TC123C cutter and TC123CRH handle combined into one unit

TC123CRH Ratcheting Tube Cutter Handle.

- Handle for TC123C tube cutter

TC123C1 Cutting Wheel.

- Extra cutter wheel for TC123C

TC25A Ratcheting Cutter (Blue-Point).

- Designed for automotive, plumbing, air conditioning, marine, chemical laboratories, refineries and hydraulic industries
- Cuts steel, copper, brass, aluminum, plastic and PVC sizes 5/16 to 1 1/8" diameter
- Ratcheting tube cutter with unique spring loaded action mechanism allows 1 or 2 tightening adjustments to complete the cut in very hard to reach places
- Ratchet motion allows operation in close quarters
- High impact fiberglass handle is strong and lightweight



WARNING



• Read safety precautions on pages W1 to W4

TUBING

Cutters, Flaring and Bending



TF528D



TF5A



TF275A



TFM428

Flaring Tool Sets (Blue-Point®)

TF528D Tube Cutting and Double Flaring Set.

- Contains TC28C tubing cutter and a double flaring set with a flaring bar, rod handle, yoke and 5 adaptors: 3/16, 1/4, 5/16, 3/8 and 1/2"

- Storage case included

TF5A Double Flaring Tool Set.

- Makes double or single flares on soft steel, brass or aluminum tubing from 3/16 to 1/2" O.D.
- Makes a smooth fitting, crack free 45° flare
- Set includes 5 adaptors, yoke assembly, bar assembly and handle
- Storage case included

TFM5A Metric Double Flaring Tool Set.

- Same design as TF5A except it is for tubing with an O.D. from 4.75 to 10 mm
- Set includes yoke, bar assembly, handle and 5 adaptors: 4.75, 5, 6, 8 and 10 mm

TF275A Flaring and Swaging Set.

- 45° flare or swage soft copper, brass or aluminum tubing
- Die blocks handle 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, and 3/4" O.D. tubing
- Swages 3/16, 1/4, 5/16, 3/8, 1/2, 5/8 and 3/4" O.D. tubing
- TF275PB storage case included

TFM428 Metric Bubble Flaring Set.

- For automotive brake systems
- Designed for crack free bubble flares on soft wall tubing up to a wall thickness of .028"
- Adaptors included for 4.75, 6, 8 and 10 mm flares
- TFM428PB storage case included



TFL500



TFL800



TFLM800

TFL500 Flaring Kit.

- Use with a ratchet to make consistent flares faster and easier
- Makes double flares on 3/16" and 4.75 mm tubing
- Low profile design allows for use on or off the car
- In line design makes a more accurate flare
- Double clamp and hex screw design keeps tubing locked tightly in position
- For use on thin walled steel and copper tubing

TFL800 Flaring Kit.

- Use with a ratchet to make consistent flares faster and easier
- Makes double flares on 3/16" and 4.75 mm tubing
- Low profile design allows for use on the car or off
- In line design makes a more accurate flare
- Double clamp and hex screw design keeps tubing locked tightly in position
- For use on thin walled steel and copper tubing

TFLM800 Flaring Kit.

- Use with a ratchet to make consistent flares faster and easier
- Makes double flares on 4.75, 5 and 6 mm tubing
- Low profile design allows for use on the car or off
- In line design makes a more accurate flare
- Double clamp and hex screw design keeps tubing locked tightly in position
- For use on thin walled steel and copper tubing



TBS100



TBS200A



TBS300



GA244

Bending Tools

TBS100 Tubing Bender.

- Bends tubing up to 1/4" O.D.
- Bends copper, brass, Bundy weld, noncoated brake lines and more
- Comfort grip handle
- 7" long

TBS200A Multipurpose Tubing Bender (Blue-Point).

- Makes left, right or offset bends up to a 90° angle
- Degrees shown for accurate bending angle
- Handles 3/16, 1/4, 5/16 and 3/8" (4, 6 and 8 mm) O.D. aluminum, copper and stainless steel tubing
- Aluminum unit is 8 1/4" long when opened

TBS300 Tubing Bender (Blue-Point).

- Easily bend 1/4, 5/16 and 3/8" O.D. soft copper or aluminum tubing up to 180°
- Degrees, in 15° increments, noted on tool for accurate bends
- Pull lever to easily disengage tool after bending
- Cushioned handles provide comfort and control, even with greasy hands
- Offset handles provide hand clearance when making 180° bends
- Lightweight, die cast aluminum construction
- Overall length is 10 1/2"

GA244 Tubing Bender.

- Allows smooth bend without denting tubing
- Makes bends to 180° and 13/16"
- Handles 3/16, 1/4 and 5/16" O.D. steel and copper tubing
- Reversible forming pad
- Polypropylene posts minimize friction



YA824C



YA824ASTR



SBP5



SBP3



YA8230



YA9818

Boot Pliers

YA824C Spark Plug Boot Pliers.

- 45° offset jaws
- Vinyl coated jaws and handles assure gripping ability
- Use only on automotive type ignition systems
- 9 1/2" long

YA824ASTR Boot Pliers.

- Straight jaw version of YA824C
- 9 3/4" long

SBP5 Boot Pliers.

- 5 positions for easy access to restricted spark plugs
- Internal spring keeps pliers in the open position
- Vinyl coated jaws and handles
- Black industrial finish
- 10" long

SBP3 Boot Pliers.

- Vinyl coated offset jaw tips will pull most U.S. and import spark plug boots, including the back plugs on late model Porsche® and Mercedes-Benz® vehicles
- Vinyl covered handles are cushioned for comfort

YA8230 Valve Stem Seal Pliers.

- Removes valve stem seals from overhead camshaft engines including 4 valve per cylinder engines that have restricted access
- Gripping serrations in the pliers tip easily grab both OEM and aftermarket seals with ease
- Easy grip handles

YA9818 Spark Plug Boot Puller.

- Quickly and easily remove and install hard to reach steel spark plug boots on VW® and Audi® vehicles
- T-handle design delivers greater pulling power
- Constructed from hardened stainless steel for strength and corrosion resistance
- 25/32" diameter with 12" overall length



FSPK



FSPPRK

Spark Plug Extractors

FSPK Spark Plug Extractors.

- Removes broken spark plugs from cylinder head on Ford® Triton 5.4 L 3 valve engines, 4.6 L engines and 6.8 L engines without removing head

Stock No.	Description	Set Contains:
FSPK1	Barrel	•
FSPK2	Threaded Shaft	•
FSPK3	Nut	•
FSPK4	Thrust Washer	•
FSPK5	Vinyl Cap	•
T910M	Metric Tap	•

Optional Tap Holder TDL8-10

Porcelain Extractors

FSPPRK Porcelain Extractor Set.

- Used in combination with FSPK spark plug extractor kit for use on Ford vehicles to remove any porcelain left behind from the process of extracting the plug
- Tool does not push the porcelain through the sleeve, preventing engine damage
- 4 cylinders can be worked on at one time to save time and money
- Set includes porcelain repair kit for use on Ford vehicles, pins (10 pack), special Loctite® 680 adhesive (5 mL) to remove broken porcelain, clean out wire and blow molded storage case

Applications (engines covered):

4.6 L V8 2005-2008 (Ford Mustang, Explorer, Mercury® Mountaineer); 5.4 L V8 2004-2008 (Ford F150, F250 Super Duty, F350 Super Duty, E450 Super Duty, Expedition, Lincoln® Navigator, Mark LT); 6.8 L V10 2005-2008 (Ford F250 Super Duty, F350 Super Duty, F450 Super Duty, F550 Super Duty, E450 Super Duty, E450 Econoline)

FSPPRK1 Porcelain Repair Kit for use on Ford vehicles.

- Washer, center screw, guide, hex nut and end nut

FSPPRK2 Pins (10 pack).

FSPPRK3 Loctite (680, 5 mL).

FSPPRK4 Clean Out Wire.

FSPPRKPB Storage Case.



WARNING



• Read safety precautions on pages W1 to W4

SPARK PLUG TOOLS

Service Tools



YA832A



YA840



YA6845



HB5PK



FRT10



FRT12

Spark Plug Tools

YA832A Spark Plug Firing Indicator (Blue-Point®).

- Test spark plugs, coils and distributors on breaker point and electronic ignition systems
- Blunt nose tip prevents lead puncturing
- High intensity bulb and viewing window for greater flash concentration
- 4 3/4" long

YA6845 Spark Plug Boot Remover.

- For use on ripped or stuck spark plug boots
- Easily saves time as it is awkward to use a pliers to try to get the stuck boot off, especially when the spark plug is in a recessed or confined area where vision is limited
- Made from high quality heat treated steel
- High tech black finish

Applications for Ford® vehicle:

4.6 L V8 2 valve heads (1997-1999); 4.6 L V8 2 valve heads (2000 and later); 4.6 L V8 3 valve heads (2007 and later); 5.4 L V8 2 valve heads (1997-2004); 5.4 L V8 3 valve heads (2005 and later); 6.8 L V10 2 valve heads (1999-2008); 6.8 L V10 3 valve heads (2008 and later)

Applications for Chrysler® vehicle:

3.7 L V6 2 valve heads (2005 and later); 5.7 L V8 Hemi 2 valve heads (2004 and later)

Other Applications:

Applications where the diameter of the porcelain on the spark plug is smaller than 0.432 of an inch.

YA840 In Line Spark Tester (Blue-Point).

- Quickly diagnose ignition systems
- Works on all ignition systems including distributorless ignitions
- Status of indicator light shows if problem exists in the ignition system or fuel system

HB5PK Spark Plug File Set.

- Fine, single cut tungsten file for smoothing or cleaning spark plug and other contact points

- Includes (2) HB5 spark plug files

FRT10 Spark Plug Insert Installer Set (Blue-Point).

- Repairs damaged heads from blown spark plugs with an alloy steel insert in as little as 15 to 45 minutes
- Services modular cylinder heads on Ford vehicles 4.6, 5.4 and 6.8 L
- Set includes tap (FRT10-1), Core Drill (FRT10-2), guide (FRT10-3), Storage Case (FRT10-CASE), Instructional DVD (FRT10-DVD) and Spark Plug Insert (FRT10-INS)

FRT12 Three Valve Insert Kit for Ford Vehicles (Blue-Point).

- Repair cylinders without removing the head
- Custom guide, tap and drill for quick and simple repair of damaged threads
- Unique insert installer makes the job quick and easy
- Works on 3 valve 5.4 and 6.8 engines built before 10/9/2007
- Also works on 3 valve 4.6 L engines built before 11/30/2007 found on many 2004 to 2008 Ford, Lincoln® and Mercury® vehicles
- Set includes Tap (FRT-1), Core Drill (FRT-2), guide (FRT-3), Insert Installer (FRT-4), Insert (FRT1-INS) and Storage Case (FRT-CASE)

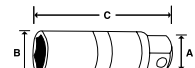
Flank Drive® Spark Plug Sockets



S9721A



S9704KFUA



Double Swivel (3/8" Drive), inches

- Use double swivel universals for rear spark plug removal or installation on transverse V6 engines

#	6	C	Rubber Insert
5/8	S9721A	4 13/16	S9706KARI

Universal (3/8" Drive)

#	6	A	B	C	Rubber Insert
13/16"	S9704KFUA	3/8	13/16	3 9/16	S9705A2
5/8"	S9706KFUA	3/8	5/8	3 23/32	S9706KARI
14 mm	S9714MKFUA	3/8	25/32	3 1/8	S9714MK-2
9/16"	S9716KFUA	3/8	3/4	2 15/16	S9714MK-2



FSXK320A



S9710KC

Flexible Extensions (3/8" Drive), inches

#	6	B	C	Rubber Insert
5/8	FSXK320A	2 15/32	5 11/32	S9706KARI

Ball Joint Swivel (3/8" Drive), inches

#	6	C	Rubber Insert
13/16	S9709KB	3 25/32	S9705A2
5/8	S9710KC	3 25/32	S9706KARI



S9706KRFUA



S9716KR



S9704KR



S9714MKR



S9723



S9724RHS



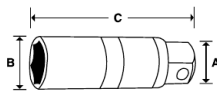
S9704RHS

Retention Spark Plug Sockets (3/8" Drive)

- Patented tapered hex design (U.S. Patent 6,626,067)
- Securely retains spark plug in socket without rubber insert or magnet
- Patented Diamond Wedge design with 6 wedges equally align plug in the center to avoid damage to the porcelain
- Spark plug is easily disengaged by applying gentle side pressure
- Spark plug socket configuration is cold formed for extended tool life
- External hex on standard models for restricted access applications
- Knurled surface for finger tightening/removal
- Side through hole for secure extension retention for coil on plug applications
- S9706KRA/S9706KRFUA Applications: 4.7 L engines used on Jeep® Commander and Grand Cherokee, Dodge® Ram, Durango and Dakota plus Chrysler® Aspen vehicles. General applications on autos, light trucks, motorcycles and power equipment
- S9716KR Applications: 2005 Ford® Mustang (4.6 L, 3 valve engine) and Ford 2004 F150 (5.4 L V8, 3 valve engine)
- S9714MKR Applications: 14 mm spark plugs used in Nissan® 1.8 L Versa and 2.0 L Sentra, Mercedes® and BMW® vehicles

#	6	A	B	C
9/16	S9716KR	5/8	25/32	2 3/8
5/8	S9706KRFUA		27/32	3 3/4
5/8	S9706KRA	11/16	27/32	2 7/8
13/16	S9704KR	7/8	1 1/16	2 27/32
14 mm	S9714MKR	16 mm	19.6 mm	60.3 mm

ANSI® B107.34M



S9706KMAG

Magnetic (3/8" Drive), inches

#	6	B	C
5/8	S9706KMAG	11/16	2 19/32
13/16	S9704KMAG	11/16	2 11/16



S9720KA



BLPSPS3858



BLPSPS381316

Extra Deep (3/8" Drive), inches

#	6	C	Rubber Insert
9/16	S9716KL	5 7/8	S9719-2A
5/8	S9720KA	5 31/32	S9706KARI
13/16	S9719KA	5 7/8	S9719-2A

Spark Plug Sockets, inches (Blue-Point®)

#	6	C
5/8	BLPSPS3858	2 9/16
13/16	BLPSPS381316	2 1/4

Special Application

S9723 Offset Spark Plug Socket.

- 5/8" offset spark plug socket for limited access situations
- Remove/install the spark plug on the #3 cylinder without interference from the steering column on GM® 4.3 L V6 engines used in GMC® Jimmys, Chevy® Blazers, S10 and S15 pickup trucks (1994 to 2004) plus Oldsmobile® Bravadas (1996 to 2001) vehicles
- Use with 11" extension
- 12 point, Flank Drive® wrenching system
- Industrial black finish
- 1 1/2" length, 1 3/4" height, 3/8" drive

S9724RHS Low Profile Spark Plug Socket.

- Low profile socket easily reaches 5/8" (16 mm) spark plugs on muscle cars, ATVs, motorcycles and boats without interference from custom exhausts or chassis
- Spark plug extends through the socket for access in tight quarters
- Patented tapered hex design retains spark plug securely without rubber insert or magnet
- Spark plug is easily disengaged from socket by applying side pressure
- Use ratcheting box wrench on 5/8" external hex drive
- 1 1/16" length

Applications:

Harley-Davidson® motorcycles with large gas tanks (1986 and later Sportster® and 1999 and later twin cam models) plus small block Chevy, Ford and Mopar® vehicles and other engines with 5/8" (16 mm) spark plugs and racing exhaust headers

S9704RHS Low Profile Spark Plug Socket.

- Low profile socket easily reaches 13/16" spark plugs on muscle cars, ATVs, motorcycles, RVs and boats without interference from custom exhausts or chassis
- Spark plug extends through the socket for access in tight quarters
- Patented tapered hex design retains spark plug securely without rubber insert or magnet
- Spark plug is easily disengaged from socket by applying side pressure
- Use with open end or ratcheting box wrench on 13/16" external hex drive
- 1 1/4" length

Applications:

Small or big block Chevy, Ford and Mopar vehicles and other engines with 13/16" spark plugs and racing exhaust headers



WARNING



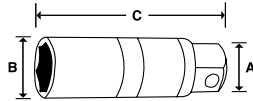
- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

SPARK PLUGS/NUT SPLITTERS/CABLE CUTTERS

Flank Drive® Spark Plug Sockets



S9706KA



S9716KA



S6106KA





S9711KA



S9714MK




Standard (3/8" Drive), inches

		A	B	C	Rubber Insert
5/8	S9706KA*	3/8	27/32	2 27/32	S9706KARI
9/16	S9716KA*	5/8	23/32	2 1/8	S9714MK-2
3/4	S9718KA*	3/8	31/32	2 13/32	S9705A2
13/16	S9704KA*	3/8	7/8	2 3/4	S9705A2
7/8	S6106KA**	3/8	7/8	3 7/32	S6106-2R

* ASME®/ANSI® B107.34M

** Designed for aircraft applications

Standard (3/8" Drive), mm

			A	B	C	Rubber Insert
18 mm	S9711KA		11/16	24.3	66.9	S9706KARI
14 mm		S9714MK	5/8	18.0	60.3	S9714MK-2

ASME/ANSI B107.34M

Nut Splitters



CG675HY



NC52

Hydraulic Nut Splitter

CG675HY Hydraulic Nut Splitter.

- 6 ton controlled hydraulic power for removal of frozen or corroded nuts up to 2H hardness and 1 3/4" across the flats or 2" hex on soft nuts
- Includes CG652 ram and pump set
- 1 1/2" stroke

CG675 Nut Splitter.

- Nut splitter without the hydraulics

Manual Nut Splitter

NC52 Nut Splitter.

- For splitting nuts up to 3/4" across the flats
 - Bar acts as a handle to hold tool securely
- NC52-3 Extra Cutter.**
NC52-4A Anvil.

Cable Cutters



CG410HY

Hydraulic Cable Cutters

CG410HY Hydraulic Cable Cutter.

- Cut steel cable up to 1 1/2" in diameter easily with up to 29 tons of force generated by this hydraulic package
- Hardened tool steel cutting blade and die make clean, square cuts and provide long, dependable service
- Both can be resharpened
- Includes CG420-2A pump, CG420-3-1 hose and CG420-4 coupler set

CG410 Cable Cutter.

- Cable cutter without the hydraulics

CG420-2A One stage 20, 35 and 50 ton pump.

CG420-3-1 Hose.

CG420-4 Coupler.



RTD48

RTD48 U.S./Metric Master Rethreading Kit.

- Includes taps and dies
- Also includes TF1124B and TFM7530B thread restorer files
- All components stored in storage case (48 pcs)



TRC3

TRC3 U.S. Rethreading Tap Set (NC).

- Includes 6 NC taps and 12 NC dies (18 pcs)
- Silver finish



TRF3

TRF3 U.S. Rethreading Tap Set (NF).

- Includes 6 NF taps and 12 NF dies (18 pcs)
- Black finish



RTD15M

RTD15M Metric Rethreading Tap & Die Set.

- Includes 7 metric dies and 7 metric taps (14 pcs)
- Gold finish

	Size, inches (mm)	Stock No.	RTD48	TRC3	TRF3	RTD15M	
NC Rethreading Taps 	1/4-20	TRT2520A	•	•			
	5/16-18	TRT3118A	•	•			
	3/8-16	TRT3716A	•	•			
	7/16-14	TRT4314A	•	•			
	1/2-13	TRT5013A	•	•			
	9/16-12	TRT5612A	•	•			
NF Rethreading Taps 	1/4-28	TRT2528A	•		•		
	5/16-24	TRT3124A	•		•		
	3/8-24	TRT3724A	•		•		
	7/16-20	TRT4320A	•		•		
	1/2-20	TRT5020A	•		•		
	9/16-18	TRT5618A	•		•		
Metric Rethreading Taps 	(M6 x 1)	TRT51	•			•	
	(M8 x 1.25)	TRT53	•			•	
	(M10 x 1.5)	TRT54	•			•	
	(M10 x 1.25)	TRM1025-2	•			•	
	(M12 x 1.75)	TRT55	•			•	
	(M12 x 1.5)	TRT56	•			•	
	(M12 x 1.25)	TRT57	•			•	
	(M10 x 1.00)	TRT101	•				
	(M11 x 1.50)	TRT11150	•				
	(M14 x 1.50)	TRT14150	•				
NC Rethreading Dies 	1/4-20	TR2520A	•	•			
	5/16-18	TR3118A	•	•			
	3/8-16	TR3716A	•	•			
	7/16-14	TR4314A	•	•			
	1/2-13	TR5013A	•	•			
	9/16-12	TR5612A	•	•			
	5/8-11	TR6211A	•	•			
	3/4-10	TR7510A		•			
	7/8-9	TR8759A		•			
	1-8	TR10008A		•			
	1 1/8-7	TR11257A		•			
	1 1/4-7	TR12507A		•			
	NF Rethreading Dies 	1/4-28	TR2528B	•		•	
		5/16-24	TR3124B	•		•	
3/8-24		TR3724B	•		•		
7/16-20		TR4320B	•		•		
1/2-20		TR5020B	•		•		
9/16-18		TR5618B	•		•		
5/8-18		TR6218B	•		•		
3/4-16		TR7516A			•		
7/8-14		TR8714A			•		
1-14		TR10014A			•		
1 1/8-12		TR11212A			•		
1 1/4-12		TR12512A			•		
Metric Rethreading Dies 	(M6 x 1)	TDM51B	•			•	
	(M8 x 1.25)	TDM53B	•			•	
	(M10 x 1.5)	TDM54B	•			•	
	(M10 x 1.25)	TRM1025-1	•			•	
	(M12 x 1.75)	TDM55B	•			•	
	(M12 x 1.5)	TDM56B	•			•	
	(M12 x 1.25)	TDM57B	•			•	
	(M10 x 1.00)	TR101	•				
	(M11 x 1.50)	TR11150	•				
	(M14 x 1.50)	TR14150	•				

- Do not use chrome or industrial finish hand tools with impact drivers
- Rethreading taps and dies renew existing threads, do not use for cutting new threads or on hardened steel
- Read safety precautions on pages W1 to W4



WARNING



THREAD RESTORING

Thread Restoring Files/Thread Chasers



TF1124B

TF1124B Thread Restorer File.

- For any diameter right or left hand threads
- Removable vinyl handles

TF1124B. 11, 12, 13, 14, 16, 18, 20, and 24 threads per inch.

TF1127B. 9, 10, 12, 16, 20, 27, 28, and 32 threads per inch.

TFM7530B. Pitches: .75, 1, 1.25, 1.50, 1.75, 2 and 3 mm.

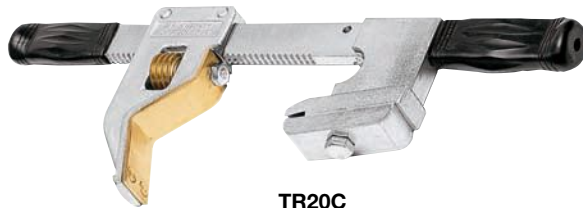


TFTFM932A

TFTFM932A Thread Restorer File Set.

- Includes 3 commonly needed files
- Files feature a black industrial finish and comfortable vinyl handles
- Files service a range of 9 to 32 threads per inch and 0.75 to 3 mm pitches
- Includes TFTFM932-1 vinyl kit bag for storage

Thread Chasers



TR20C



TR21A



TR25B

U.S. Thread Chaser Sets

TR20C U.S. External Thread Chaser Set.

- Includes small rethreading tool with 1/2 to 5 3/4" diameter capacity for bolt threads and 1/4 to 4" capacity for pipe threads plus 9 thread chasers

TR21A U.S. External Thread Chaser Set.

- Includes large rethreading tool with 5 to 14" diameter pipe thread capacity plus 9 thread chasers

TR25B U.S. Internal Thread Chaser Set.

- Includes knurled handle internal thread chasing tool plus 9 chasers

Metric Thread Chaser Sets

TR20M Metric External Thread Chaser Set.

- Same rethreading tool as the TR20C U.S. set, except it includes 6 metric chasers (7 pcs)

TR25M Metric Internal Thread Chaser Set.

- Includes a knurled handle thread chasing tool plus 6 metric chasers (7 pcs)

Thread Chaser Set Components

	Stock No.	Threads/inch & Pitch (mm)
U.S. Chaser	TR20-10	4 & 5
	TR20-11	6 & 7
	TR20-12	8 & 9
	TR20-32	8R & 10R
	TR20-13	10 & 11
	TR20-14	11 1/2 & 12
	TR20-15	13 & 14
	TR20-16	16 & 18
	TR20-17	20 & 24
	Metric Chaser	TR20-25
TR20-26		(3.5 & 4)
TR20-27		(2.5 & 3)
TR20-28		(1.75 & 2)
TR20-29		(1.25 & 1.5)
TR20-30		(.75 & 1)

Spindle Rethreading Set

RD8 Spindle Rethreading Set.

- For most imported or U.S. front wheel drive vehicles

Stock No.	Rethreading Die Size	Set Contains:
RD7-1	M24 x 1.5	•
RD7-2	M24 x 2	•
RD7-3	M22 x 1	•
RD7-4	M22 x 1.5	•
RD7-5	M20 x 1.5	•
RD7-6	3/4"-20	•
RD7-7	13/16"-20	•
RD7-9	M20 x 1.25	•
RD7-8	Storage Case	•



RD8

Light Truck Spindle Rethreading Set

RD8LT Light Truck Spindle Rethreading Set.

- For use on 4 wheel drive front and rear axle (housings) and medium to heavy duty 2 wheel drive trucks (rear axle)
- Restore axle housing and bearing/hub retention threads



RD8LT

Master Spindle Rethreading Set

RD20 Master Spindle Rethreading Set.

- Repair and renew damaged threads on stub axles and spindles for most vehicles
- Dies are manufactured from high tempered steel for strength and durability
- Each die size is embossed in the case directly below each die for easy identification and selection
- Application chart included

Stock No.	Rethreading Die Size	Set Contains:
RD7-1	M24 x 1.5	•
RD7-2	M24 x 2	•
RD7-3	M22 x 1	•
RD7-4	M22 x 1.5	•
RD7-5	M20 x 1.5	•
RD7-6	3/4"-20	•
RD7-7	13/16"-20	•
RD7-9	M20 x 1.25	•
RD7-10	3/4"-16 NF	•
RD7-11	7/8"-14 NF	•
RD7-12	1"-14 NF	•
RD7-13	1 1/16"-24 NF	•
RD7-14	M25 x 1.5	•
RD7-15	M27 x 2	•
RD7-16	27/32"-20 NF	•
RD7-17	M16 x 1	•
RD7-18	M16 x 1.5	•
RD7-19	M18 x 1.5	•
RD7-20	M19 x 1.5	•
RD7-21	M20 x 1	•
RD7-22	Storage Case	•



RD20

Stock No.	Rethreading Die Size	Set Contains:
RD7-23	2"-16	•
RD7-24	M38 x 1.5	•
RD7-25	1 5/8"-16	•
RD7-26	1 13/16"-16	•
RD7-27	Left Hand, 2"-16	•
RD7-28	2 1/8"-16	•
RD7-29	2 1/4"-16	•
RD8LT-1	2 5/8" Driver	•
RD8LT-2	Storage Case	•

Metric Spark Plug Hole Taps

Stock No.	Size
T10100	M10 x 1.00
T12125	M12 x 1.25
T14125	M14 x 1.25
T18150	M18 x 1.50
T2818	7/8"-18 NF



T14125

Thread Gauge

TDM101 Metric Bolt and Thread Gauge.

- Bolt diameter range of 2.3 to 24 mm (with inch/decimal equivalents)
- Thread gauge sizes: .35 to 3 mm



TDM101

Deep Well Thread Chasers

- Designed to clean and repair threads that are rusted, painted or damaged
- Unique pass through design allows you to thread even the longest bolt or wheel stud
- Back end of chaser is left open so that it can be threaded backwards on a stud to use the interior of the thread chaser as a guide to align the first couple threads
- Flip chaser over and clean threads the remaining distance on the fastener or stud
- Use a socket or wrench on the external hex drive end to operate chaser

Stock No.	Type	Thread Size	Set Contains:				
			DTRCS105	DTRFS105	DTRMAS105	DTRCF110	DTRCFM114
DTRC38	NC	3/8"-16 NC	•	•	•	•	•
DTRC716	NC	7/16"-14 NC	•	•	•	•	•
DTRC12	NC	1/2"-13 NC	•	•	•	•	•
DTRC916	NC	9/16"-12 NC	•	•	•	•	•
DTRC58	NC	5/8"-11 NC	•	•	•	•	•
DTRF38	NF	3/8"-24 NF	•	•	•	•	•
DTRF716	NF	7/16"-20 NF	•	•	•	•	•
DTRF12	NF	1/2"-20 NF	•	•	•	•	•
DTRF916	NF	9/16"-18 NF	•	•	•	•	•
DTRF58	NF	5/8"-18 NF	•	•	•	•	•
DTRM12.125	Metric	M12 x 1.25	•	•	•	•	•
DTRM12.150	Metric	M12 x 1.50	•	•	•	•	•
DTRM14	Metric	M14 x 1.50	•	•	•	•	•
DTRM16	Metric	M16 x 1.50	•	•	•	•	•



DTRMAS105



DTRFS105



DTRC58



DTRCS105



WARNING



- Rethreading taps and dies renew existing threads, do not use for cutting new threads or on hardened steel
- Read safety precautions on pages W1 to W4

THREADING

Tap and Die Sets



TDTDM117A



TDTDM500A



TD2425

TDP6



TD9902



TDTDM117A Deluxe Combination Set. Includes all components of the TDTDM500A U.S./Metric set plus 41 pc high speed steel drill bit set in fractional, metric, wire gauge and letter sizes and 5 spiral screw extractors. Each drill bit matches to corresponding tap size for correct fit. Set offers a complete assortment of high carbon steel taps and dies in fractional and metric sizes. Tap/drill charts and tool diagrams included. Set packaged in a storage case.



	Thread Size	Tap Stock No.	Die Stock No.	Die Type	U.S. Set	U.S. Set	U.S. Set	U.S./Metric Set	U.S. Set
National Fine Threads (Adjustable Dies)	1/4"-28 NF	T105	D015	1" Double Hex Adjustable		•		•	•
	5/16"-24 NF	T106	D016	1" Double Hex Adjustable		•		•	•
	3/8"-24 NF	T107	D017	1" Double Hex Adjustable		•		•	•
	7/16"-20 NF	T108	D018	1" Double Hex Adjustable		•		•	•
	1/2"-20 NF	T109	D019	1" Double Hex Adjustable		•		•	•
	1/2"-20 NF		DR019	1 1/2" Round Adjustable	•				•
	9/16"-18 NF	T125	DR035	1 1/2" Round Adjustable	•				•
	5/8"-18 NF	T126	DR036	1 1/2" Round Adjustable	•				•
	3/4"-16 NF	T127	DR037	1 1/2" Round Adjustable	•				•
	7/8"-14 NF	T128	DR042	2" Round Adjustable	•				•
	1"-14"	T129	DR043	2" Round Adjustable	•				•
National Fine Threads (Non Adjustable Dies)	1/4"-28 NF	T105	GA541-1428	1" Single Hex Non Adjustable				•	•
	5/16"-24 NF	T106	GA541-51624	1" Single Hex Non Adjustable				•	•
	3/8"-24 NF	T107	GA541-3824	1" Single Hex Non Adjustable				•	•
	7/16"-20 NF	T108	GA541-71620	1" Single Hex Non Adjustable				•	•
	1/2"-20 NF	T109	GA541-1220	1" Single Hex Non Adjustable				•	•
National Coarse Threads (Adjustable Dies)	1/4"-20 NC	T100	D010	1" Double Hex Adjustable		•		•	•
	5/16"-18 NC	T101	D011	1" Double Hex Adjustable		•		•	•
	3/8"-16 NC	T102	D012	1" Double Hex Adjustable		•		•	•
	7/16"-14 NC	T103	D013	1" Double Hex Adjustable		•		•	•
	1/2"-13 NC	T104	D014	1" Double Hex Adjustable		•		•	•
	1/2"-1 NC		DR014	1 1/2" Round Adjustable					•
	9/16"-12 NC	T120	DR030	1 1/2" Round Adjustable	•				•
	5/8"-11	T121	DR031	1 1/2" Round Adjustable	•				•
	3/4"-10 NC	T122	DR032	1 1/2" Round Adjustable	•				•
	7/8"-9 NC	T123	DR040	2" Round Adjustable	•				•
	1"-8 NC	T124	DR041	2" Round Adjustable	•				•
National Coarse Threads (Non Adjustable Dies)	1/4"-20 NC	T100	GA541-1420	1" Single Hex Non Adjustable				•	•
	5/16"-18 NC	T101	GA541-51618	1" Single Hex Non Adjustable				•	•
	3/8"-16 NC	T102	GA541-3816	1" Single Hex Non Adjustable				•	•
	7/16"-14 NC	T103	GA541-71614	1" Single Hex Non Adjustable				•	•
Machine Screw Threads (Adjustable Dies)	1/2"-13 NC	T104	GA541-1213	1" Single Hex Non Adjustable				•	•
	4-40	T111A	D021A	5/8" Double Hex Adjustable		•		•	•
	6-32	T112	D022	5/8" Double Hex Adjustable		•		•	•
	8-32	T113	D023	5/8" Double Hex Adjustable		•		•	•
	10-24	T114	D024	5/8" Double Hex Adjustable		•		•	•
	10-32	T115	D025	5/8" Double Hex Adjustable		•		•	•
Machine Screw Threads (Non Adjustable Dies)	12-24	T116	D026	5/8" Double Hex Adjustable		•		•	•
	4-40	T111A	GA541-440	5/8" Single Hex Non Adjustable				•	•
	6-32	T112	GA541-632	5/8" Single Hex Non Adjustable				•	•
	8-32	T113	GA541-832	5/8" Single Hex Non Adjustable				•	•
	10-24	T114	GA541-1024	5/8" Single Hex Non Adjustable				•	•
	10-32	T115	GA541-1032	5/8" Single Hex Non Adjustable				•	•
Pipe Threads (Adjustable Dies)	12-24	T116	GA541-1224	5/8" Single Hex Non Adjustable				•	•
	1/8"-27 NPT	T110				•	•	•	•
	1/8"-27 NPT		D020	1" Double Hex Adjustable		•		•	•
	1/4"-18 NPT	T130			•		•		•
	1/4"-18 NPT		DR033	1 1/2" Round Adjustable	•				•
	3/8"-18 NPT	T131					•		
	1/2"-14 NPT	T132					•		
Pipe Threads (Non Adjustable Dies)	3/4"-14 NPT	T133					•		
	1"-11 1/2" NPT	T134					•		
	1/8"-27 NPT	T110	GA541-1827	1" Double Hex Non Adjustable					

Tap and Die Sets

	Thread Size	Tap Stock No.	Die Stock No.	Die Type	Set Contains:						
					TD9902B	TD2425	TDM99117	TDM99117A	TDM117B	TDTDM500A	TD9902
					U.S. Set	U.S. Set	Metric Set	Metric Set	Metric Set	U.S./Metric Set	U.S. Set
Metric Threads	M3 x .50	T305M	D305M	5/8" Double Hex Adjustable			•		•		•
	M4 x .70	T407M	D407MA	5/8" Double Hex Adjustable			•		•		•
	M4 x .75	T4075M	D4075M	5/8" Double Hex Adjustable			•		•		•
	M5 x .80	T508M	D508MA	5/8" Double Hex Adjustable			•		•		•
	M5 x .90	T509M	D509M	5/8" Double Hex Adjustable			•		•		•
	M6 x 1.00	T610M	D610MA	5/8" Double Hex Adjustable			•		•		•
	M7 x 1.00	T710M	D710M	1" Double Hex Adjustable			•		•		•
	M8 x 1.00	T810M	D810M	1" Double Hex Adjustable			•		•		•
	M8 x 1.25	T812M	D812M	1" Double Hex Adjustable			•		•		•
	M9 x 1.00	T910M	D910M	1" Double Hex Adjustable			•		•		•
	M9 x 1.25	T912M	D912M	1" Double Hex Adjustable			•		•		•
	M10 x 1.25	T1012M	D1012M	1" Double Hex Adjustable			•		•		•
	M10 x 1.5	T1015M	D1015M	1" Double Hex Adjustable			•		•		•
	M11 x 1.5	T1115M	D1115M	1" Double Hex Adjustable			•		•		•
	M12 x 1.5	T1215M	D1215M	1" Double Hex Adjustable			•		•		•
	M12 x 1.75	T1217M	D1217M	1" Double Hex Adjustable			•		•		•
	M14 x 1.25	T14125	DR1412M	1 1/2" Round Adjustable			•	•			
	M14 x 1.5	T1415M	DR1415M	1 1/2" Round Adjustable			•	•			
	M14 x 2.0	T1420M	DR1420M	1 1/2" Round Adjustable			•	•			
	M1 x 1.5	T1615M	DR1615M	1 1/2" Round Adjustable			•	•			
	M16 x 2.0	T1620M	DR1620M	1 1/2" Round Adjustable			•	•			
	M18 x 1.5	T1815M	DR1815M	1 1/2" Round Adjustable			•	•			
	M18 x 2.5	T1825M	DR1825M	1 1/2" Round Adjustable			•	•			
	M20 x 2.5	T2025M	DR2025M	2" Round Adjustable			•	•			
	M22 x 1.5	T2215M	DR2215M	2" Round Adjustable			•	•			
	M24 x 2.0	T2420M	DR2420M	2" Round Adjustable			•	•			
	M24 x 3.0	T2430M	DR2430M	2" Round Adjustable			•	•			
	1/8"-28 BSP	T110M	D020M	1" Double Hex Non Adjustable			•		•		•
Accessories	GA541-1 Die Stock			For 5/8" single hex dies					•		•
	TD3A Die Stock			For 5/8" double hex dies		•	•		•		•
	GA26-2 Die Stock			Adjustable for 1" single hex dies							
	TD10A Die Stock			Self Centering for 1" double hex dies		•	•		•		•
	TD35 Die Stock			Self Centering for 1 1/2" diameter round dies	•			•			•
	TD40 Die Stock			Self Centering for 2" diameter round dies	•			•			•
	TD4 Tap Wrench			4 jaw, for 0 - 1/4" taps		•	•		•		•
	TD6 Tap Wrench			2 jaw, for 1/16 - 1/4" taps							
	TD7 Tap Wrench			2 jaw, for 1/4 - 1/2" taps							
	TD50 Tap Wrench			4 jaw, for 1/4 - 1/2" (M7 x 1.00 to M12 x 1.75) taps		•	•		•		•
	TD88A Tap Wrench			Clamp type, for 0 - 1/2" (M3 x 0.50 to M12 x 1.75) taps		•	•		•		•
	TD98A Tap Wrench			Clamp type, for 0 - 1" (M7 x 10 to M24 x 3.0) taps		•	•		•		•
	TD1040 Thread Pitch Gauge			U.S.		•			•		•
	TDM100 Thread Pitch Gauge			Metric					•		•
	TDS1 Screwdriver			For adjusting dies		•	•		•		•

Metric Tap Set

TMA34. Precision ground flutes ensure accurate threading. High carbon steel ensures less breakage. Tap adaptors turn any 3/8" socket drive into a tap driver.

Metric Tap Set Includes:

Stock No.	Thread Size	Stock No.	Thread Size	Stock No.	Thread Size
T305M	M3 x 0.50	T910M	M9 x 1.00	T1420M	M14 x 2.00
T306M	M3 x 0.60	T912M	M9 x 1.25	T1610M	M16 x 1.00
T407M	M4 x .075	T1010M	M10 x 1.00	T1615M	M16 x 1.50
T4075M	M4 x 0.75	T1012M	M10 x 1.25	T1620M	M16 x 2.00
T508M	M5 x 0.80	T1015M	M10 x 1.50	T1815M	M18 x 1.50
T509M	M5 x 0.90	T1115M	M11 x 1.50	T18150	M18 x 1.50
T610M	M6 x 1.00	T1212M	M12 x 1.25	T1825M	M18 x 2.50
T6310M	M6.3 x 1.00	T1215M	M12 x 1.50	TDM100	Metric Thread, Pitch Gauge
T710M	M7 x 1.00	T1217M	M12 x 1.75	ATSS	Adj. Tap Socket, 3-6 mm
T810M	M8 x 1.00	T1412M	M14 x 1.25	ATSL	Adj. Tap Socket, 6-12 mm
T812M	M8 x 1.25	T14125	M14 x 1.25		
T9075M	M9 x 0.75	T1415M	M14-1.50		



TMA34

GAM541 Metric Set

(Blue-Point®). 40 pc set features 1" single hex nonadjustable dies from 3 to 12 mm, a 1/8"-28 BSP die plus taps in the same sizes. Also includes a die stock, 2 T-handle tap wrenches, a thread pitch gauge, a drill/tap chart and a midget screwdriver, all in a storage case.



GAM541

GA541 U.S. Set

(Blue-Point®). Taps and dies from #4 to 1/2" in both NF and NC threads, a pipe thread tap and die, plus 2 die stocks and 3 tap wrenches, a screw pitch gauge and a screwdriver (41 pc) in a storage case.



GA541



WARNING



- Retreading taps and dies renew existing threads, do not use for cutting new threads or on hardened steel
- Read safety precautions on pages W1 to W4

THREADING

Self Aligning Taps and Dies



TSA117

TSA117M

Self Aligning Taps

- Self aligning taps feature Chip Breaking Technology (CBT) allowing the cutting edge to cut, break and chip cleaner. Up to 30% easier to break chips
- Self aligning taps come with an alignment chamfer that allows the tap to start straight every time, ensuring straight threads and less chance of cross threading
- Increased flute taper increases tap durability up to 20%
- Plug chamfer style for general purpose threading
- High carbon steel is ideal for hand tapping applications



DSA117

DSA117M

Self Aligning Dies

- Self aligning dies feature CBT ensuring clean cuts in both directions
- Alignment plate design starts straight every time to reduce the chance of cross threading
- Roller threads provide greater thread quality, accuracy and cutting ease
- Made from high carbon steel
- Use dies with the TDALDS1 Die Stock



TDRSET

Tap and Die Drive Tool System

TDALDS1 Die Stock.

- Features a twist die lock which means no more set screws are needed
- Simply twist to insert or remove the die
- Ergonomic handles for comfort and control when threading
- Fits 1" double hex dies

TDALTS1 Adjustable Tap Socket.

- For 0 to 1/4" (M3 x .50 to M6 x 1.00) taps
- Versatile base can be driven with die stock, 3/8" ratchet or T-bar handle

TDALTS2 Adjustable Tap Socket.

- For 1/4 to 1/2" (M7 x 1.00 to M12 x 1.75) taps
- Versatile base can be driven with die stock, 3/8" ratchet or T-bar handle

TDALDSS Die Spacer.

- 1/8" spacer accommodates standard 1" hex dies
- Drives tools compatible with all 1" hex dies and ANSI® spec taps

TDALTSB T-Bar Handle.

- For TDALTS1 and TDALTS2 Adjustable Tap Sockets

TDRSET Tap and Die Drive Tool Set.

Includes: TDALDS1 Die Stock, TDALTS1 and TDALTS2 Adjustable Tap Sockets, TDALDSS Die Spacer, TDALTSB T-Bar Handle, TD1040 U.S. Thread Pitch gauge and TDM100 Metric Thread Pitch gauge (7 pcs) in storage box.

Self Aligning Taps, U.S.

Set Contains:

TSA117

Stock No.	Thread Size	
T110	1/8"-27 NPT	•
TSA111	4-40 Machine Screw	•
TSA112	6-32 Machine Screw	•
TSA113	8-32 Machine Screw	•
TSA114	10-24 Machine Screw	•
TSA115	10-32 Machine Screw	•
TSA116	12-24 Machine Screw	•
TSA100	1/4"-20 NC	•
TSA105	1/4"-28 NF	•
TSA101	5/16"-18 NC	•
TSA106	5/16"-24 NF	•
TSA102	3/8"-16 NC	•
TSA107	3/8"-24 NF	•
TSA103	7/16"-14 NC	•
TSA108	7/16"-20 NF	•
TSA104	1/2"-13 NC	•
TSA109	1/2"-20	•

Self Aligning Taps, Metric

Set Contains:

TSA117M

Stock No.	Thread Size	
T110M	1/8"-28 BSP	•
TSA305M	M3 x .50	•
TSA4075M	M4 x .75	•
TSA407M	M4 x .70	•
TSA508M	M5 x .80	•
TSA509M	M5 x .90	•
TSA610M	M6 x 1.00	•
TSA710M	M7 x 1.00	•
TSA810M	M8 x 1.00	•
TSA812M	M8 x 1.25	•
TSA910M	M9 x 1.00	•
TSA912M	M9 x 1.25	•
TSA1012M	M10 x 1.25	•
TSA1015M	M10 x 1.50	•
TSA1115M	M11 x 1.50	•
TSA1212M	M12 x 1.25	•
TSA1217M	M12 x 1.75	•

Self Aligning Dies, U.S.

Set Contains:

DSA117

Stock No.	Die Type	Thread Size	
D020	1" Double Hex Non Adjustable	1/8"-27 NPT	•
DSA010	Double Hex	1/4"-20 NC	•
DSA011	Double Hex	5/16"-18 NC	•
DSA012	Double Hex	3/8"-16 NC	•
DSA013	Double Hex	7/16"-14 NC	•
DSA014	Double Hex	1/2"-13 NC	•
DSA015	Double Hex	1/4"-28 NF	•
DSA016	Double Hex	5/16"-24 NF	•
DSA017	Double Hex	3/8"-24 NF	•
DSA018	Double Hex	7/16"-20 NF	•
DSA019	Double Hex	1/2"-20	•
DSA021	Double Hex	4-40 Machine Screw	•
DSA022	Double Hex	6-32 Machine Screw	•
DSA023	Double Hex	8-32 Machine Screw	•
DSA024	Double Hex	10-24 Machine Screw	•
DSA025	Double Hex	10-32 Machine Screw	•
DSA026	Double Hex	12-24 Machine Screw	•

Self Aligning Dies, Metric

Set Contains:

DSA117M

Stock No.	Die Type	Thread Size	
D020M	1" Double Hex Non Adjustable	1/8"-28 BSP	•
DSA305M	Double Hex	M3 x .50	•
DSA407M	Double Hex	M4 x .70	•
DSA4075M	Double Hex	M4 x .75	•
DSA508M	Double Hex	M5 x .80	•
DSA509M	Double Hex	M5 x .90	•
DSA610M	Double Hex	M6 x 1.00	•
DSA710M	Double Hex	M7 x 1.00	•
DSA810M	Double Hex	M8 x 1.00	•
DSA812M	Double Hex	M8 x 1.25	•
DSA910M	Double Hex	M9 x 1.00	•
DSA912M	Double Hex	M9 x 1.25	•
DSA1012M	Double Hex	M10 x 1.25	•
DSA1015M	Double Hex	M10 x 1.50	•
DSA1115M	Double Hex	M11 x 1.50	•
DSA1212M	Double Hex	M12 x 1.25	•
DSA1217M	Double Hex	M12 x 1.75	•

Tap Sockets and Die Sets



TDL8



TDL3

Tap Sockets (1/4 - 3/8" Drive)

Stock No.	Square Drive, inches	Fits SAE Size Taps	Fits Metric Size Taps	Shank Dia., inches	Square Size, inches
TDL8-1	1/4	#1, #2, #3, #4, #5, #6	M1.6, M1.8, M2, M2.2, M2.5, M3, M3.15, M3.5	.141	.110
TDL8-2	1/4	#8	M4	.168	.131
TDL8-3	1/4	#10	M4.5, M5	.194	.152
TDL8-4	1/4	1/4"	M6, M6.3	.255	.191
TDL8-5	3/8	5/16", 7/16"	M7, M8	.323	.242
TDL8-6	3/8	3/8"	M10	.381	.286
TDL8-7	3/8	1/2"	M12, M12.5	.367	.275
TDL8-8	3/8	1/8" NPT		.437	.328

TDL8 Tap Socket Set.

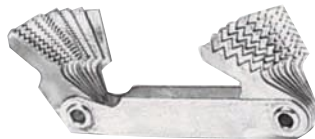
- For use with ratchets and handles
- Rubber O-rings hold taps securely in place
- Black industrial finish
- Includes 8 sockets on TDL8-9 socket rail and clips

Tap Sockets (1/2" Drive)

- Use in restricted areas where a T-handle won't easily fit
- Manufactured to M.C.T.I. Standards
- Black industrial finish

Stock No.	Square Drive, inches	Fits SAE Size Taps, inches	Fits Metric Size Taps	Shank Dia., inches	Square Size, inches	
TDL31	1/2	5/8	16 mm	.480	.360	•
TDL32	1/2	11/16	18 mm	.542	.406	•
TDL33	1/2	3/4		.590	.442	•

Set Contains: TDL3



TD1040

Thread Pitch Gauge

TD1040 Thread Pitch Gauge.

- Measures U.S. or sharp "V" threads
- Includes 18 plated blades for the following thread sizes: 8, 9, 10, 11, 11 1/2, 12, 13, 14, 16, 18, 20, 24, 27, 28, 32, 36, 40, and 44 threads per inch

Bottoming Taps

TB300C Set.

- Allows blind holes to be tapped within one thread of bottom of hole

TB5/16C Tap.

- 5/16"-18 NC thread size

TB3/8C Tap.

- 3/8"-16 NC thread size

TB7/16C Tap.

- 7/16"-14 NC thread size

TB300F Set.

- Allows blind holes to be tapped within one thread of bottom of hole

TB5/16F Tap.

- 5/16"-24 NF thread size

TB3/8F Tap.

- 3/8"-24 NF thread size

TB7/16F Tap.

- 7/16"-20 NF thread size



TB300C

Ratcheting Tap Wrenches (Blue-Point®)

YA577A T-handle Tap Wrench.

- For taps up to 1/4"
- Ratchet clockwise or counterclockwise
- 3 3/8" long body, 3 15/16" handle

YA578A T-handle Tap Wrench.

- For 1/4 to 1/2" taps
- Ratchet clockwise or counterclockwise
- 4 3/8" long body, 4 3/4" handle

TDW1000 Ratcheting Tap and Die Wrench.

- Cut and renew threads in confined areas
- Bi directional ratcheting action
- Holds dies with 1" (25 mm) diameter
- Includes adaptors for hex and double hex
- Also includes adaptors for most popular tap sizes: .250" (6.35 mm), .290" (7.36 mm), .335" (8.5 mm) and .535" (13.58 mm)



YA577A

TDW1000

Adjustable Tap Sockets

- Designed for use with taps, reamers, screw extractors and other tools with a square shank
- Small profile for easier access to tight work spaces
- Adaptor turns any 3/8" square drive ratchet or handle into a tap driver

ATSS Adjustable Tap Socket.

- Fits common taps from #6 to 1/4" (3 to 6 mm)

ATSL Adjustable Tap Socket.

- Fits common taps from 1/4 to 1/2" (6 to 12 mm)

ATSET Adjustable Tap Socket Set.

- ATSS and ATSL (2 pcs)



ATSS

ATSL

Plug Taps and Dies

	Stock No.	Thread Size	Thread Pitch	Die Type	
Tap	T111	4-36	Right Hand		
	T6310M	M6.33 x 1	Right Hand		
	T1010M	M10 x 1	Right Hand		
	T1112M	M11 x 1.25	Right Hand		
	T1212M	M12 x 1.25	Right Hand		
	T1412M	M14 x 1.25	Right Hand		
	T1415M	M14 x 1.5	Right Hand		
	T1420M	M14 x 2	Right Hand		
	Die	D021	4-36	Right Hand	5/8" Dbl. Hex
		D040	1/4"-18	Right Hand	1" Dbl. Hex
D147M		M4 x .7	Right Hand	1" Dbl. Hex	
D158M		M5 x .8	Right Hand	1" Dbl. Hex	
D161M		M6 x 1	Right Hand	1" Dbl. Hex	
D1010M		M10 x 1	Right Hand	1" Dbl. Hex	
D1112M		M11 x 1.25	Right Hand	1" Dbl. Hex	
D1212M		M12 x 1.25	Right Hand	1" Dbl. Hex	
D1615M		M16 x 1.5	Right Hand	1 1/4" Hex	
D1615ML		M16 x 1.5	Left Hand	1 1/4" Hex	

	Stock No.	Thread Size	Thread Pitch	Die Type
Die	D1620M	M16 x 2	Right Hand	1 1/4" Hex
	D1810M	M18 x 1	Right Hand	1 7/16" Hex
	D1815M	M18 x 1.5	Right Hand	1 7/16" Hex
	D1815ML	M18 x 1.5	Left Hand	1 7/16" Hex
	D1825M	M18 x 2.5	Right Hand	1 7/16" Hex
	DR2015M	M20 x 1.5	Right Hand	2" Round
	D2025M	M20 x 2.5	Right Hand	1 7/16" Hex
	D2215M	M22 x 1.5	Right Hand	1 5/8" Hex
	D2215ML	M22 x 1.5	Left Hand	1 5/8" Hex
	D2415M	M24 x 1.5	Right Hand	1 13/16" Hex
	D3015M	M30 x 1.5	Right Hand	2" Hex



WARNING



- Retreading taps and dies renew existing threads, do not use for cutting new threads or on hardened steel
- Read safety precautions on pages W1 to W4

EXTRACTORS

Extractor Sets

Set Contains:	Stock No.	EXDMS48	EXD35	EXD10	EXDL10	E1025	E1020	
Right Hand Drill Bits	CSE405B						•	
	DBCFS5/64			•				
	DBCFS7/64			•				
	DBCFS5/32			•				
	DBCFS1/4			•				
	DBCFS19/64			•				
	DBF1/8C					•	•	
	DBF3/16C					•	•	
	DBF1/4C					•	•	
	DBF5/16C					•	•	
	DBF11/32C					•	•	
	DBF7/16C					•	•	
	DBF1/2C					•	•	
	Left Hand Drill Bits	DBCL5/64A	•	•		•		
		DBCL7/64A	•	•		•		
		DBCL1/8	•	•				
DBCL5/32A		•	•		•			
DBCL3/16		•	•					
DBCL7/32		•	•					
DBCL1/4A		•	•		•			
DBCL9/32		•	•					
DBCL19/64A		•	•		•			
DBCL5/16		•	•					
DBCL11/32		•	•					
DBCL3/8		•	•					
DBCL13/32		•	•					
DBCL7/16		•	•					
DBCL15/32		•	•					
DBCL1/2		•	•					
Solid Type Drill Guides	E921					•		
	E1021					•	•	
	E1121					•	•	
	E1221					•	•	
	E1321					•	•	
	E1421					•	•	
	E1521					•	•	
	E1621					•	•	
	E1721					•	•	
	E1821					•	•	
Sleeve Type Drill Guides	E33A					•		
	E34					•		
Sleeve Bushings (in pairs)	E3033					•		
	E3033					•		
Straight Screw Extractors	E1					•	•	
	E2					•	•	
	E3					•	•	
	E4					•	•	
	E5					•	•	
	E6					•	•	
	E7					•	•	
	E8					•	•	
	E8					•	•	
Pipe Plug Extractors	E80					•		
	E81					•		
	E82					•		
	E83					•		
	E84					•		
	E85					•		
Spiral Flute Screw Extractors	EX1	•	•	•	•			
	EX2	•	•	•	•			
	EX3	•	•	•	•			
	EX4	•	•	•	•			
	EX5	•	•	•	•			
	EX6	•	•	•	•			
Multispline Screw Extractors	REX104A	•	•					
	REX105A	•	•					
	REX106A	•	•					
	REX107A	•	•					
	REX108A	•	•					
	REX109A	•	•					
	REX110A	•	•					
	REX111A	•	•					
	REX112A	•	•					
	REX113A	•	•					
	REX114A	•	•					
	REX115A	•	•					
REX116A	•	•						
Hex Head Fastener Extractors	BEX081	•						
	BEX101	•						
	BEX121	•						
	BEXM101	•						
	BEX141	•						
	BEXM121	•						
	BEX161	•						
	BEXM131	•						
	BEX181	•						
	BEX201	•						
	BEXM171	•						
	BEX221	•						
	BEX241	•						



EXDMS48 Master Extractor Set.

- Quickly and easily extracts the toughest screws from 3/32 to 15/16" screw sizes (including metric sizes)
- Includes 16 left hand mechanic's length cobalt drill bits, 13 multispline screw extractors (1/8 to 1/2"), 6 spiral flute screw extractors plus 13 hex head fastener extractors (1/4 to 3/4")
- Hex head extractors feature left hand spiral flutes for maximum gripping power
- External hex and square drive wrenching options for use with wrenches, impact wrenches and ratchet/socket combinations
- 48 pcs in storage case

EXDMS48



EXD35 Screw Extractor Set.

- Quickly and easily extracts tough screws from 3/32 to 15/16" (including metric sizes)
- Includes 16 left hand mechanic's length cobalt drill bits, 13 multispline screw extractors and 6 spiral flute screw extractors in EXD35-1 storage case

EXD35



EXD10

EXD10 Right Hand Extractor Set.

- Includes 5 right hand, mechanic's length cobalt drill bits and 5 spiral flute screw extractors in metal index



EXDL10

EXDL10 Left Hand Extractor Set.

- Includes 5 left hand, mechanic's length cobalt drill bits and 5 spiral flute screw extractors in metal index



E1025

E1025 Extractor Set (Blue-Point®).

- Extract broken screws from 1/4 to 1" diameter and standard pipe sizes 1/8 to 1"
- Storage case



E1020

E1020 Extractor Set (Blue-Point®).

- Extracts broken screws from 1/4 to 1/2" diameter
- Storage case



REX25B



REX10B



REX15B



BEX13A



BEX5B

Multispline Extractor Sets

- Shoulder prevents extractor from entering too deeply and expanding screw

REX25B Multispline Extractor Set. REX104A to REX128A (25 pcs) in REX25BMT storage case.

REX10B Multispline Extractor Set. REX104A to REX113A (10 pcs) in REX10BMT storage case.

REX15B Multispline Extractor Set. REX104A to REX118A (15 pcs) in REX15BMT storage case.



REX114A

Multispline Extractors

Stock No.	Drill Size, inches	Bolt Size, inches	Pipe Size, inches	Hex Size, inches	Mark
REX104A	1/8	1/4		1/2	A
REX105A	5/32	5/16		1/2	B
REX106A	3/16	3/8		1/2	C
REX107A	7/32	7/16		1/2	D
REX108A	1/4	1/2	1/8	1/2	E
REX109A	9/32	9/16		1/2	F
REX110A	5/16	5/8		1/2	G
REX111A	11/32	11/16	1/4	1/2	H
REX112A	3/8	3/4		1/2	I
REX113A	13/32	13/16		1/2	J
REX114A	7/16	7/8		5/8	K
REX115A	15/32	15/16	3/8	5/8	L
REX116A	1/2	1		5/8	M
REX117A	17/32	1 1/16		5/8	N
REX118A	9/16	1 1/8		3/4	O
REX119A	19/32	1 3/16		3/4	P
REX120A	5/8	1 1/4	1/2	3/4	Q
REX121A	21/32	1 5/16		7/8	R
REX122A	11/16	1 3/8		7/8	S
REX123A	23/32	1 7/16		7/8	T
REX124A	3/4	1 1/2		7/8	U
REX125A	25/32	1 9/16	3/4	1	V
REX126A	13/16	1 5/8		1	W
REX127A	27/32	1 11/16		1	X
REX128A	7/8	1 3/4		1	Y

Hex Head Fastener Extractors

- Use on most popular hex head fasteners from 1/4 to 1" (8 to 24 mm)
- Sockets feature left hand spiral flutes for maximum gripping power
- Manufactured from high carbon steel for maximum strength
- External hex and square drive wrenching options for use with wrenches, impact wrenches and ratchet/socket combinations

Set Contains:

BEX13A
BEX5B

Stock No.	Square Drive, inches	Size, inches (mm)	External Hex, inches (mm)	Outside Dia., inches (mm)	Length, inches (mm)		
BEX081	3/8	1/4 (6)	5/8 (15.9)	3/8 (9.5)	1 1/16 (27.0)	•	
BEX101	3/8	5/16 (8)	5/8 (15.9)	7/16 (11.1)	1 1/16 (27.0)	•	
BEX121	3/8	3/8 (10)	5/8 (15.9)	9/16 (14.3)	1 1/16 (27.0)	•	
BEXM101	3/8	n/a (10)	3/4 (19.1)	5/8 (15.5)	1 1/16 (27.0)	•	
BEX141	3/8	7/16 (11)	3/4 (19.1)	5/8 (15.9)	1 1/16 (27.0)	•	
BEXM121	3/8	n/a (12)	3/4 (19.1)	23/32 (17.5)	1 1/16 (27.0)	•	
BEX161	3/8	1/2 (12)	3/4 (19.1)	23/32 (17.9)	1 1/16 (27.0)	•	
BEXM131	3/8	n/a (13)	3/4 (19.1)	23/32 (18.5)	1 1/16 (27.0)	•	
BEX181	3/8	9/16 (14)	7/8 (22.2)	25/32 (19.4)	1 1/16 (27.0)	•	
BEX201	3/8	5/8 (16)	7/8 (22.2)	7/8 (21.8)	1 1/16 (27.0)	•	
BEXM171	3/8	n/a (17)	1 (25.4)	29/32 (23.0)	1 1/16 (27.0)	•	
BEX221	3/8	11/16 (n/a)	1 (25.4)	19/16 (24.2)	1 1/16 (27.0)	•	
BEX241	3/8	3/4 (19)	1 1/16 (27)	1 1/32 (26.2)	1 1/16 (27.0)	•	
BEXW241	1/2	3/4 (19)	1 1/4 (31.8)	1 1/8 (28.6)	1 3/4 (44.5)	•	•
BEXW261	1/2	13/16 (21)	1 3/8 (34.9)	1 3/16 (30.2)	1 3/4 (44.5)	•	•
BEXW281	1/2	7/8 (22)	1 7/16 (36.5)	1 1/4 (31.8)	1 3/4 (44.5)	•	•
BEXW301	1/2	15/16 (24)	1 7/16 (36.5)	1 5/16 (33.3)	1 3/4 (44.5)	•	•
BEXW321	1/2	1 (n/a)	1 7/16 (36.5)	1 3/8 (34.9)	1 3/4 (44.5)	•	•



110STSY

External Drive Hex Head Slim Twist Sockets

Stock No.	Nut/Bolt Size, inches (mm)	Socket Number	External Hex, inches	Socket Thickness, inches (mm)	Finish
110STSY1	3/8 (9)	#1	5/8	0.38 (9.5)	Industrial Black
110STSY2	(10)	#2	5/8	0.38 (9.5)	Industrial Black
110STSY3	7/16 (11)	#3	11/16	0.38 (9.5)	Industrial Black
110STSY4	(12)	#4	3/4	0.38 (9.5)	Industrial Black
110STSY5	(13)	#5	3/4	0.50 (12.7)	Industrial Black
110STSY6	(14)	#6	13/16	0.50 (12.7)	Industrial Black
110STSY7	(15)	#7	7/8	0.50 (12.7)	Industrial Black
110STSY8	5/8 (16)	#8	15/16	0.62 (15.9)	Industrial Black
110STSY9	(17)	#9	1	0.62 (15.9)	Industrial Black
110STSY10	3/4 (19)	#10	1 1/16	0.62 (15.9)	Industrial Black

110STSY External Drive Twist Socket Set.

- Quickly and easily remove damaged or rounded nuts and bolts, socket head cap screws in close quarters and nuts threaded on long studs
- Ideal for use for aircraft and exhaust systems applications
- Includes 10 external hex drive slim twist sockets for the following hex head fasteners:

SAE: 3/8, 7/16, 5/8 and 3/4"

Metric: 9, 10, 11, 12, 13, 14, 15, 16, 17, and 19 mm

Sockets are stored on MSR1 magnetic socket holder

Power Fastener Extractors (Blue-Point®)

- Extracts hex head, socket head, round head and other fasteners
- 1/4" universal hex shank is ideal for use with cordless, air or electric drills, impact wrenches, nut runners and hand tools
- Power groove for use with quick change adaptors
- Reverse spiral flutes hold on to the most elusive fastener heads
- High carbon steel ensures longer life and greater durability
- High carbon steel shank is larger than most fastener shanks and resists torsional shear

Set Contains:

BET7

Stock No.	Size, inches (mm)	
BET76	3/16 (5)	•
BET78	1/4 (6)	•
BET710	5/16 (8)	•
BET712	3/8 (10)	•
BEM710	(10)	•
BET714	7/16 (11)	•
BET716	1/2 (12)	•



BET7



WARNING



• Read safety precautions on pages W1 to W4

EXTRACTORS

Extractor Tools

BEXD Deep Well Extractors

- External hex and 3/8" square drive wrenching options for use with wrenches, impact wrenches and ratchet/socket combinations
- Deep well design fits over exposed studs and reaches recessed fasteners
- Reverse spiral flutes bite into stubborn fasteners, both fractional and metric, with maximum gripping power
- Reduced profile head enables use in confined spaces



BEXD181



BEXD9

Stock No.	Size, inches	Length, inches	Set Contains:
BEXD081	1/4	2 7/16	•
BEXD101	5/16	2 7/16	•
BEXD121	3/8	2 7/16	•
BEXD141	7/16	2 7/16	•
BEXD161	1/2	2 7/16	•
BEXD181	9/16	2 7/16	•
BEXD201	5/8	2 7/16	•
BEXD241	3/4	2 7/16	•
BEXDM131	13 mm	2 7/16	•

Right Hand Fractional Drill Bits

- Use right hand drill bits to make a hole in the broken screw before the extractor is inserted

Stock No.	Size, inches	Flute Length, inches	Overall Length, inches
CSE405B	5/8	3	6
DBF1/2C	1/2	2 1/4	4 3/4
DBF1/4C	1/4	2 1/2	4
DBF1/8C	1/8	1 3/8	3
DBF11/32C	11/32	2 3/4	4 1/2
DBF3/16C	3/16	2	3 1/2
DBF5/16C	5/16	2 5/8	4 1/2
DBF7/16C	7/16	1 7/8	4 1/4

Left Hand Fractional Drill Bits (Cobalt)

- Left hand drill bits tend to loosen screws for easier removal



DBCL105A

Stock No.	Size, inches	Set Contains:
DBCL5/64A	5/64	•
DBCL7/64A	7/64	•
DBCL5/32A	5/32	•
DBCL3/16	3/16	•
DBCL1/4A	1/4	•
DBCL9/32	9/32	•
DBCL19/64A	19/64	•
DBCL5/16	5/16	•
DBCL11/32	11/32	•
DBCL3/8	3/8	•
DBCL13/32	13/32	•
DBCL7/16	7/16	•
DBCL15/32	15/32	•
DBCL1/2	1/2	•



SR40K

Tapered Bit Extractors

SR40K Tapered Bit Extractor Set.

- Tapered ends have left hand threads to bite deep into drilled studs
- Square shafts for use with wrench
- Set includes (4 pcs) in C0407 kit bag

- SR4A 1/8"
- SR10A 9/64"
- SR14 7/32"
- SR20 5/16"
- C0407 Kit Bag



DBLS105A

Left Hand Fractional Drill Bits (High Speed Steel)

- Left hand drill bits tend to loosen screws for easier removal

	Stock No.	Size, inches	Flute Length, inches	Overall Length, inches	Set Contains:
Left-Hand	DBLS1/8A	1/8	1 3/8	3	•
	DBLS3/16A	3/16	2	3 1/2	•
	DBLS1/4A	1/4	2 1/2	4	•
	DBLS5/16A	5/16	2 5/8	4 1/2	•
	DBLS11/32A	11/32	2 3/4	4 1/2	•

Spiral Flute Screw Extractors

- Designed to remove broken studs, bolts, socket screws and fittings
- Aggressive left hand spiral design for extra gripping power



EX1

Stock No.	Use Drill Size, inches	Removes Bolts and Screws
EX1	5/64	3/32 to 5/32", 2.5 to 4 mm, #3 to #6
EX2	7/64	5/32 to 7/32", 4 to 6 mm, #6 to #12
EX3	5/32	7/32 to 9/32", 6 to 8 mm, #12
EX4	1/4	9/32 to 3/8", 1/8" NPT, 1/8" BSP, 8 to 10 mm
EX5	19/64	3/8 to 5/8", 1/4" NPT, 1/4" BSP, 10 to 16 mm
EX6	13/32	5/8 to 7/8", 3/8" NPT, 3/8" BSP, 16 to 22 mm

Solid Type Drill Guides

- Used for centering drills at a depth not exceeding 1"



E921

Stock No.	Outside Dia., inches	For Drill Size, inches	Length, inches
E921	9/32	1/8	1 3/16
E1021	5/16	1/8	1 3/16
E1121	11/32	1/8	1 3/16
E1221	3/8	1/8	1 3/16
E1321	13/32	3/16	1 3/16
E1421	5/16	3/16	1 3/16
E1521	15/32	3/16	1 3/16
E1621	1/2	3/16	1 3/16
E1721	17/32	1/4	1 3/16
E1821	9/16	1/4	1 3/16

Sleeve Type Drill Guides

- Use to center 1/4" diameter, 6" long drill bits (see DBL1/4A above)
- Parts are interchangeable to adapt to different screw or stud holes and depths up to 3 3/4"

E34 Sleeve Type 5/8" O.D.

E33A Sleeve Type 3/4" diameter

E33B Sleeve Spacer (set of 4) 5/8" diameter

Sleeve Bushing (in pairs)

Stock No.	Diameter, inches
E2133	21/32
E2933	29/32
E3033	15/16
E3133	31/32



E2133



E1



E6

Straight Screw Extractors

	Stock No.	For Screw Dia. or Std. Pipe, inches	Drill Size, inches	Length, inches
Straight Screw, Hex Nut Type	E1	1/4	1/8	2 5/16
	E2	5/16	3/16	2 3/4
	E3	3/8	1/4	3 1/16
	E4	7/16	5/16	3 5/16
	E5	1/2	11/32	3 3/4
	E6	1/2	7/16	4 1/8
	E7	3/4	1/2	4 1/2
	E8	1	1/2	4 5/8



E80

Pipe Plug Extractors

Stock No.	For Screw Dia. or Std. Pipe, inches	Drill Size, inches	Length, inches
E80	1/8	17/64	2 1/4
E81	1/4	3/8	2 1/2
E82	3/8	1/2	2 3/4
E83	5/8	5/8	3
E84	3/4	13/16	3 1/4
E85	1	1 1/16	3 1/2

All in one Extractor Set

YA769 Extractor Set. (Blue-Point®)

- Extract broken screws from 1/4 to 1/2" diameter
- Drill/extract with one tool
- Left hand drill bit
- For use in 3/8" drive reversible drill



YA769

Stock No.	Extractor Size, inches	Drilling Speed, rpm	Extracting Speed, rpm
YA769-1	1/4	700-800	350
YA769-2	5/16	650-750	470
YA769-3	3/8	600-700	350
YA769-4	1/2	475-575	350

YA2020 Screw Extractor Set (Blue-Point).

- Easily extracts #6 to #14 damaged screws from wood, metal or plastic. Remove hex, Torx®, Phillips®, slotted or square head screws
- Use with 1/4" quick disconnect or 1/4" hex hand or power tool
- Works with a variety of screw materials



YA2020

Cam and Wedge Type Stud Removers

A50A Stud Remover.

- 7/16 to 1/2" capacity
- V-shaped rack grips stud
- rip releases when pressure is relieved
- Uses 1/2" drive handle



A50A

A50-4B Optional Rack.

- For 5/16 to 3/8" capacity

A36A Stud Remover.

- 1/2 to 3/4" capacity
- Knurled wheel grips stud
- Driving shank extends through both sides of housing for bearing surface on each side of wheel
- Uses 1/2" drive handle



A36A

A80A Stud Remover.

- 1/4 to 1/2" capacity
- Jaws grip when pressure is applied
- Built in ratchet action
- Needs only 1 1/4" clearance
- Use with 1/2" drive handle or 1" wrench



A80A

LA55A Stud Remover.

- 9/16 to 1" capacity
- rip is released by turning tool in reverse direction



LA55A

- Works on wedge principle
- Use with 3/4" drive handle

- Includes 2 wedge sizes:

LA55A2 and LA55A3

LA54 Stud Remover.

- 1/4 to 5/8" capacity
- Smaller version of LA55A
- Includes 2 wedge sizes: LA54-2A and LA54-3A
- Requires 1/2" drive handle

YA789 Power Extractor Set (Blue-Point).

- Place extractor end of tool in drill chuck, set for reverse and hole can be drilled
- Next, insert drill side into chuck, exposing extractor end, and finish the job to remove broken screw
- Packaged in YA789-5 storage case



YA789

Stock No.	Bolt Size	Extractor Size		
		Fractional	Metric	
YA789-1	—	#5 - #6	M3	•
YA789-2	—	#8	M4	•
YA789-3	#10, #12	—	M5	•
YA789-4	—	1/4"	M6	•

YA2019 Screw Remover Set (Blue-Point).

- Use to remove damaged Phillips, Torx, Pozidriv®, slotted, Internal Hex, Tri-Wing®, Frearson and most tamper resistant screws and fasteners
- Tool bites into the damaged fastener in the reverse direction allowing the user to easily remove damaged screws
- Use with variable speed reversing drill or 1/4" hex bit screwdriver



YA2019

Stock No.	Extractor Size Bolt Size	
YA2019-1	#6 - #8	•
YA2019-2	#8 - #10	•
YA2019-3	#10 - #12	•



WARNING



• Read safety precautions on pages W1 to W4

EXTRACTORS

Stud Removers



CG500-17



CG500-2



CG500

Stud Removers Set Components

Stock No.	Collet Size	Housing Stock No.	Set Contains:						
			CG5151	CG5152	CG5153	CG5158	CGM515B	CG500	CG505
CG500-17	#10-24	CG500-2	•						
CG500-18	#10-32	CG500-2	•						
CG500-2	Housing	CG500-2	•	•	•	•	•	•	•
CG500-3	1/4"-20	CG500-2	•	•		•			
CG500-4	1/4"-28	CG500-2	•	•					
CG500-5	5/16"-18	CG500-2	•	•		•			
CG500-6	5/16"-24	CG500-2	•	•		•			
CG500-7	3/8"-16	CG500-2	•	•		•			
CG500-8	3/8"-24	CG500-2	•	•		•		•	
CG500-9	7/16"-14	CG500-2	•	•		•			
CG500-10	7/16"-20	CG500-2	•	•		•		•	
CG500-11	1/2"-13	CG500-2	•	•		•			
CG500-12	1/2"-20	CG500-2	•	•		•		•	
CG500-13	9/16"-12	CG500-2	•	•		•			
CG500-14	9/16"-18	CG500-2	•	•		•			
CG500-15	5/8"-11	CG500-2	•	•		•			
CG500-16	5/8"-18	CG500-2	•	•		•			
CG500H1	3/8" Hex	CG500-2	•						
CG500H2	7/16" Hex	CG500-2	•						
CG500H3	1/2" Hex	CG500-2	•						
CG500H4	9/16" Hex	CG500-2							
CG505-8	1 1/16"-16	CG505-1							
CG505-2	3/4"-10	CG505-1							•
CG505-5	3/4"-16	CG505-1							
CG505-3	7/8"-9	CG505-1							•
CG505-6	7/8"-14	CG505-1							
CG505-4	1"-8	CG505-1							•
CG505-7	1"-14	CG505-1							
CG505H1	5/8" Hex	CG505-1							
CG505H2	1 1/16" Hex	CG505-1							
CG505H3	3/4" Hex	CG505-1							
CG505H4	13/16" Hex	CG505-1							
CG505H5	7/8" Hex	CG505-1							
CG508-1	1 1/8" - 7	CG508							
CG508-9	1 1/8" - 8	CG508							
CG508-2	1 1/8" - 12	CG508							
CG508-3	1 1/4" - 7	CG508							
CG508-10	1 1/4" - 8	CG508							
CG508-4	1 1/4" - 12	CG508							
CG508-5	1 3/8" - 6	CG508							
CG508-11	1 3/8" - 8	CG508							
CG508-6	1 3/8" - 12	CG508							
CG508-7	1 1/2" - 6	CG508							
CG508-12	1 1/2" - 8	CG508							
CG508-8	1 1/2" - 12	CG508							
CG500-30	M6-1.00	CG500-2	•		•		•		
CG500-33	M7-1.00	CG500-2	•		•		•		
CG500-36	M8-1.00	CG500-2	•		•		•		
CG500-37	M8-1.25	CG500-2	•		•		•		
CG500-39	M9-1.00	CG500-2	•		•		•		
CG500-40	M9-1.25	CG500-2	•		•		•		
CG500-42	M10-1.25	CG500-2	•		•		•		
CG500-43	M10-1.50	CG500-2	•		•		•		
CG500-48	M12-1.25	CG500-2	•		•		•		
CG500-49	M12-1.50	CG500-2	•		•		•		
CG500-54	M14-1.50	CG500-2	•		•		•		
CG500-55	M14-2.00	CG500-2	•		•		•		
CG500-60	M16-1.50	CG500-2	•		•		•		
CG500-61	M16-2.00	CG500-2					•		
CG505-1	Housing	CG500-2							•
CG508	Housing	CG500-2							
CG10F	Cross Bar	CG500-2	•	•					
CG250-8A	Slide Screw, 5/8"-18 x 18-9/16"	CG500-2	•	•	•				
CG250-9	Slide Hammer, 2 lb	CG500-2	•	•	•				
CG325-6	Nut	CG500-2	•	•	•				
CG515B-1	Plastic Storage Case	CG500-2	•	•	•				
CGM515B-1	Plastic Storage Case	CG500-2				•			

Stud Removers/Dowel Pin Pullers

Stud Removers

- Tapered collets thread onto stud, even if only a few threads are exposed
- Tightening the housing bolt draws the collet into the housing and clamps collet onto stud
- Tools reduce chance of damage to stud threads
- Avoid bottoming or shouldering studs to avoid shearing or damaging stud or workpiece

CG5151 Master Stud and Dowel Puller Set includes:

- Dowel pin components: C 503-1 housing, C 503S1 square collet, plus C 503-2 to C 503-14 collets
- Serrated collet components: C 500-20 to C 500-24
- Pipe nipple components: C 500P1 to C 500P3

CG5152 SAE Stud and Dowel Puller Set also includes:

- Dowel pin components: C 503-1 housing, plus C 503-2 to C 503-8 collets
- Does not include C 503S1 collet

CG5153 Metric Stud and Dowel Puller Set also includes:

- Dowel pin components: C 503-1 housing plus C 503-9 to C 503-14 collets



CG503

Dowel Pin Puller Sets

Stock No.	Collet Size	CG503	CGM503	CG513	CG503S
CG503-2	1/4"	•			
CG503-3	5/16"	•			
CG503-4	3/8"	•			
CG503S1	3/8" Square				
CG503-5	7/16"	•			
CG503-6	1/2"	•			
CG503-7	9/16"	•			
CG503-8	5/8"	•			
CG513-4	3/4"			•	
CG513-5	7/8"			•	
CG513S1	1/2" Square				
CG513S2	5/8" Square				
CG513-6	1"			•	
CG503-9	6 mm		•		
CG503-10	8 mm		•		
CG503-11	10 mm		•		
CG503-12	12 mm		•		
CG503-13	14 mm		•		
CG503-14	16 mm		•		
CG503-1	Housing	•	•		•
CG513-1	Housing				
CG513-2	Slide Screw			•	
CG10F	Cross Bar	•	•		•
CG250-8A	Slide Screw, 5/8"-18 x 18 9/16"	•	•		•
CG250-9	Slide Hammer, 2 lb	•	•		•
CG45670	Slide Hammer, 10 lb			•	
CG325-6	Nut		•		•
CG513-3	Nut			•	

Serrated Collets

- Serrated gripping portions are used to remove unthreaded studs that cannot be removed with standard collets due to lack of gripping surface
- Avoid bottoming or shouldering studs to avoid shearing or damaging stud or workpiece



CG500-23

Stock No.	Description
CG500-20	1/4" Collet
CG500-21	5/16" Collet
CG500-22	3/8" Collet
CG500-23	7/16" Collet
CG500-24	1/2" Collet
CG500-2	Housing

Dowel Pin Pullers



CG500P

CG505P



CG508P

Pipe Nipple Remover Set Components

Stock No.	Collet Size	Housing Stock No.	CG500P	CG505P	CG508P
CG500P1	1/8" NPT	CG500-2	•		
CG500P2	1/4" NPT	CG500-2	•		
CG500P3	3/8" NPT	CG500-2	•		
CG505P1	1/2" NPT	CG505-1		•	
CG505P2	3/4" NPT	CG505-1		•	
CG508P1	1" NPT	CG508-2			•
CG508P2	1 1/4" NPT	CG508-2			•
CG500-2	Housing		•		
CG505-1	Housing			•	
CG508	Housing				•

Note: Avoid bottoming or shouldering studs to avoid shearing or damaging stud or workpiece.

Heavy Duty Housing with Collet

- Collets are threaded to order: specify stud thread size when ordering. Example: C 510 1 3/4"-10 collet
- Avoid bottoming or shouldering studs to avoid shearing or damaging stud or workpiece

CG510 For larger stud sizes 1 5/8 to 2".

CG511 For larger stud sizes 2 to 2 1/2".

CG512 For larger stud sizes 2 1/2 to 3".



WARNING



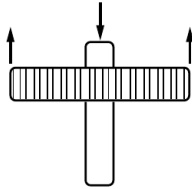
• Read safety precautions on pages W1 to W4

PULLERS

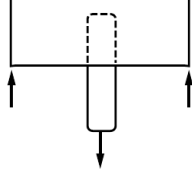
Puller Feature

What Type of Puller do I Want to Use? Will it be the Combination that Works the Best?

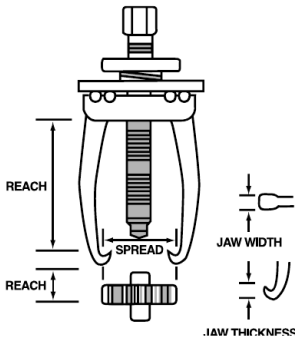
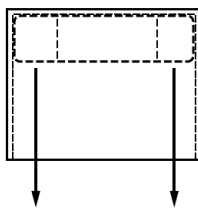
Removing a Gear, Bearing, Pulley, or Other Component from a Shaft



Pulling a Shaft Out of a Housing or Bore



Removing a Bearing or Bushing from a Blind Hole



Tools to Use

Jaw Type Puller. 2 or 3 jaw style, with 3 jaw being the best choice. Manual or hydraulic with outside jaw positions.

Push/Pull Puller. Use male or female adaptors to thread into tapped holes on components.

Slide Hammer Puller. Use on light duty applications. For use with attachments.

Bar Type Puller with Bearing Separator. Bar type with side rods threaded into bearing separator provides knife edge to get behind component or when there is not a good gripping edge.

Tools to Use

Push/Pull Puller. Use male or female adaptors.

Bar Type Puller with Bearing Separator. Use when housing lacks sufficient surface for puller side rods to bear against.

Slide Hammer Puller. Use on light duty applications. For use with attachments.

Slide Hammer Puller. Use with male or female adaptors. See this section for a full listing of compatible adaptors.

Tools to Use

Jaw Type Puller. For inside jaw positions (inside pulls), a manual or hydraulic jaw type puller can be used with pressure screw or slide hammer variations.

Expanded Collet Puller. The inside diameter should range between 1/4 and 7". Pulling can be done with bridge, bar type yokes or slide hammers. See page 210 for full information.

Bearing Adaptors with Slide Hammer Puller. CJ127A, CJ128A and CJ137 bearing adaptors with CJ97-3A slide hammer should be used in this application.

Bar Type Puller with Bearing Separator. Bar type with side rods threaded into bearing separator provides knife edge to get behind components or when there is not a good gripping edge.

Determine the "Reach" and "Spread" Needed

The puller's reach must equal or exceed the same distance on the part. The puller's spread is the width of the part.

Estimate the Puller Tonnage

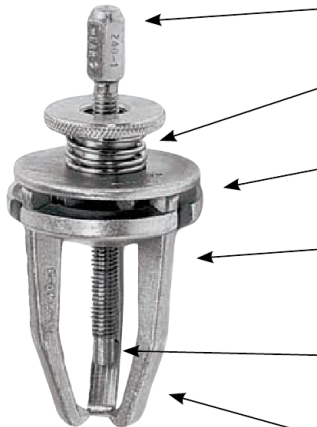
Generally, if you already have the correct reach and spread, you will usually have the proper tonnage. If in doubt, use the next larger size.

General Rule to Choose Pullers

Manual Pullers. Pressure screw should be at least half the diameter of the shaft on the pulling/pushing job.

Hydraulic Pullers. Maximum tonnage capacity (tons) should be 8 to 10 times the diameter (in inches) of the shaft to be pulled or pushed.

Snap-on® Puller Features



Anvil Head: Curved at the top and features a hex design. The curved head provides a striking surface to handle those tough pulling jobs while the hex allows the pressure screw to be easily turned with a standard hex wrench or a socket.

Spring Loaded Locking Mechanism: Snap-on pullers feature a unique spring tension locking mechanism which allows the puller jaws to easily lock onto the work surface for both outside and inside pulling applications.

Two Position Yoke: Allows jaws to be easily reversed to accommodate inside or outside pulling situations. Interchangeable yokes accommodate 2 and 3 jaw setups. Yokes are heat treated for additional strength and safety.

One Piece Jaw Construction: Provides a stronger, safer jaw. Most competitive puller jaws have holes drilled through them to allow for a bracket attachment. This hole significantly weakens the competitor's puller jaws.

Forged Jaws: Resist breakage, prolong tool life and provide additional strength.

Replaceable Points: Center pulling power to prevent cocking. Provide less friction and minimum drag for easier turning of pressure screw during the pulling process. If damage occurs, simply replace the point and not the entire pressure screw.

Curved Jaws: Provide positive grip on the work surface.

Bar Type Interchangeable

Interchangeable bar style pullers provide high quality pulling equipment with the versatility needed to handle a wide variety of pulling functions. Standardized pressure screw threading, jaw retention and design means that new components can be added to an existing puller to change its reach or spread in order to handle new or different applications.

These Snap-on® bar style pullers also feature:

- Replaceable pressure screw points help keep the puller safely centered
- Multiposition yokes help keep the jaws properly aligned with the item being pulled
- Adjustable clamp bolts allow jaws to be snugged up against the job for a safer, more convenient pull
- Spring ball pin retention securely holds jaws while allowing quick jaw changes

CJ83C Pulley and Gear Puller. Ideal for servicing crankshaft pulleys, gears and timing gears on a wide range of gasoline and diesel engines including Cummins® accessory drives and water pumps. Includes each 3/8"-16 x 3", 5/16"-18 x 2 1/2" and M10-1.5 x 65 mm bolts. Nominal capacity is 3 1/2 tons. Includes:

CJ86-1 Yoke.

CJ83-3 Pressure Screw.

CJ66-15-3 Centering Point.

ME5A54 Washer (1 needed).

ME5A55 Washer.

ME3A45 Studs (2).

ME3A44 Studs (2).

ME3A75 Studs (2).

CJ82B Pitman Arm Puller. Handles many Pitman® arm applications plus a variety of general pulling jobs. Nominal capacity is 6 tons.

CJ86-1 Yoke.

CJ83-2 Pressure Screw.

CJ66-15-3 Centering Point.

CJ81-2A Jaws (2).

CJ86-4A Clamp Bolt.

CJ85-4 Washer (2).

ME4A33 Clamp Nuts (2).

CJ105-11 Jaw Pins (2).

CJ81D Differential Side Bearing Puller. Narrow jaws slip into housing grooves in back of bearing and let jaws seat and pull along with inner race. Jaws are locked onto bearing by clamp bolt. 4 centering plates are included. Nominal capacity is 6 tons.

CJ86-1 Yoke.

CJ83-2 Pressure Screw.

CJ66-15-3 Centering Point.

CJ81-2A Jaws (2).

CJ86-4A Clamp Bolt (2).

ME4A33 Clamp Nuts (2).

CJ105-11 Jaw Pins (2).

CJ81B1A Adaptors (set of 4).

CJ81B2A Adaptors (set of 4).

CJ81D1A Adaptors (set of 4).

CJ81D2A Adaptors (set of 4).

CJ85A Truck Differential Side Bearing Puller. Similar in appearance to CJ81D but bigger for handling truck applications. 4 centering plates included. Nominal capacity is 7 1/2 tons.

CJ85-1 Yoke.

CJ83-2 Pressure Screw.

CJ66-15-3 Centering Point.

CJ85-2 Jaws (2).

CJ85-3A Clamp Bolt (2).

CJ85-4 Washer (2).

ME4A33 Clamp Nuts (2).

CJ105-11 Jaw Pins (2).

CJ85-5 Adaptors (set of 4).

CJ85-6 Adaptors (set of 4).

CJ85-7 Adaptors (set of 4).

CJ85-8 Adaptors (set of 4).

CJ80A A/C Pulley Puller. Also excellent for removal of alternator, generator, power steering and crankshaft pulleys, harmonic balancers and fiber timing gears. Includes an extra pair of jaws for versatility. Nominal capacity is 7 1/2 tons.

CJ85-1 Yoke.

CJ83-3 Pressure Screw.

CJ66-15-3 Centering Point.

CJ81-2A Jaws (2).

CJ87-1 Jaws (2).

CJ85-3A Clamp Bolt.

CJ85-4 Washer (2).

ME4A33 Clamp Nuts (2).

CJ105-11 Jaw Pins (2).

Specifications (see chart on page 220)

Stock No.	Nominal Capacity, tons	Maximum Reach, inches	Maximum Spread, inches	Pressure Screw Size, inches	Pressure Screws	Jaws	Centering Points
CJ83C	3.5	Variable	5	3/4-16 x 3 1/2	B1, B2		C2
CJ81D	6	1 5/8	3 3/8	3/4-16 x 4 1/4	B1, B3	D1, D2, D4, D5	C2
CJ82B	6	2 1/4	3 3/8	3/4-16 x 4 1/4	B1, B3	D1, D2, D4, D5	C2
CJ85A	7.5	1 3/4	5 1/2	3/4-16 x 4 1/4	B1, B3	D1, D2, D3, D5	C2
CJ80A	7.5	D3: 1 5/8, D5: 1 3/8	5	3/4-16 x 3 1/2	B1, B2	D1, D2, D4	C2



CJ83C



CJ82B



CJ81D



CJ85A



CJ80A



WARNING

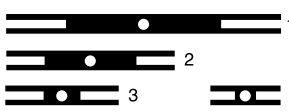
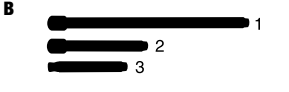
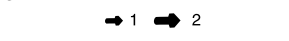
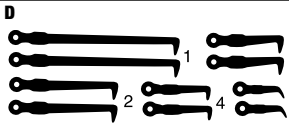
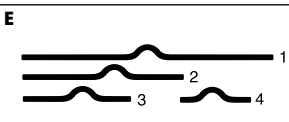

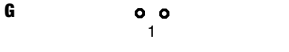

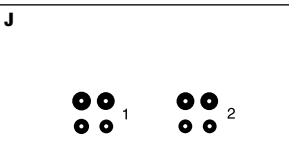
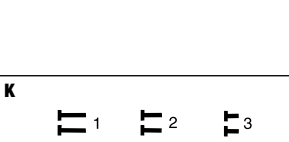


- Screen the puller application
- Inspect the puller, do not use damaged parts
- Use proper type and size puller for the job
- Read safety precautions on pages W1 to W4

PULLERS

Bar Type Interchangeable

CJ Interchangeable Pullers—Major Components

	CJ83C	CJ82B	CJ81D	CT85A	CJ80A	Component	Key No.	Stock No.	Specific Dimensions	
A 						Yoke	A1	CJ100-1	Usable Range, inches	Pin Holes per Side
						Yoke	A2	CJ118-1	10 1/2-16	4
						Yoke	A3	CJ85-1	6 - 10 1/2	3
						Yoke	A4	CJ86-1	3 - 6 1/2	3
B 						Pressure Screw	B1	CJ105-3	Thread x Length	Hex Size, inches
						Pressure Screw	B2	CJ83-2	3/4-16 x 10 1/2	7/8
						Pressure Screw	B3	CJ83-3	3/4-16 x 6 11/16	7/8
						Pressure Screw	B3	CJ83-3	3/4-16 x 5 1/8	7/8
C 						Point	C1	CJ66-15-3	Head Diameter inches	Point Type
						Point	C2	CJ84-16	5/8	90° Outward
D 						Jaws (2 needed)	D1	CJ116-1	Maximum Reach, inches	
						Jaws (2 needed)	D2	CJ282-1	8 1/4	
						Jaws (2 needed)	D3	CJ81-2A	4 3/8	
						Jaws (2 needed)	D4	CJ85-2	1 3/8	
						Jaws (2 needed)	D5	CJ87-1	1 3/4	
E 						Clamp Bolts	E1	CJ100A2	Maximum Length, inches	
						Clamp Bolts	E2	CJ118-2A	18	
						Clamp Bolts	E3	CJ85-3A	11 1/2	
						Clamp Bolts	E4	CJ86-4A	7 1/2	
F 						Washer (2 needed)	F1	CJ85-4	Inside Diameter, inches	Outside Diameter, inches
						Washer (1 needed)	F2	ME5A54	15/32	7/8
						Washer (1 needed)	F3	ME5A55	11/32	3/4
G 						Clamp Nuts (2 Needed)	G1	ME4A33	Thread Size	
						Clamp Nuts (2 Needed)	G1	ME4A33	7/16 x 20	
H 						Jaw Pins (2 needed)	H1	CJ105-11	Diameter, inches	Length, inches
						Jaw Pins (2 needed)	H1	CJ105-11	5/16	1 15/32
J 						Adaptors (Set of 4)	J1	CJ81B1A	Outside Diameter, inches	Step Diameter, inches
						Adaptors (Set of 4)	J1	CJ81B2A	1 1/2	1 1/8
						Adaptors (Set of 4)	J1	CJ81D1A	1 5/8	1 1/4
						Adaptors (Set of 4)	J1	CJ81D1A	1 3/4	1 1/8
						Adaptors (Set of 4)	J1	CJ81D2A	1 11/32	15/16
						Adaptors (Set of 4)	J2	CJ85-5	2	1 1/2
						Adaptors (Set of 4)	J2	CJ85-6	2 1/8	1 21/32
						Adaptors (Set of 4)	J2	CJ85-7	2 1/2	1 27/32
K 						Adaptors (Set of 4)	J2	CJ85-8	3 1/16	2 3/8
						Studs (2 needed)	K1	ME3A44	Thread x Length	
						Studs (2 needed)	K2	ME3A45	3/4-16 x 3	
						Studs (2 needed)	K3	ME3A75	5/16-18 x 2 1/2	
						Studs (2 needed)	K3	ME3A75	M10-1.5 x 65 mm	

Letters in chart refer to Key No. in chart below (A3, B1, C1 etc.)

CJ Series Major Components

Stock No.	A Yoke	B Pressure Screw	C Point	D Jaws (2)	E Clamp Bolt	F Washers (2)	G Clamp Nuts (2)	H Jaw Pins (2)	J Adaptors	K Studs (2)	Pressure Screws	Jaws	Points
CJ83C	A4	B3	C1			F2, F3				K1, K2, K3	B1, B2		C2
CJ82B	A4	B2	C1	D3	E4	F1	G1	H1			B1, B3	D1, D2, D4, D5	C2
CJ81D	A4	B2	C1	D3	E4	F1	G1	H1	J1		B1, B3	D1, D2, D4, D5	C2
CJ85A	A3	B2	C1	D4	E3	F1	G1	H1	J2		B1, B3	D1, D2, D3, D5	C2
CJ80A	A3	B3	C1	D3, D5	E3	F1	G1	H1			B1, B2	D1, D2, D4	C2

Other Interchangeable Components

Bar Type Interchangeable

These puller sets are designed to provide the tools you need as your work grows. Start with one or more sets geared to specific tasks and build toward the ultimate set: the CJ2000A with display board and cabinet. No duplication in set contents or jaws. Yokes are interchangeable for added versatility.

Master Interchangeable Puller Set

CJ2000SB Master Interchangeable Puller Set. Includes all components for the CJ2001, CJ2002, CJ2003A, CJ2004 and CJ2005 puller sets on VE200A tool control board and KRA276D locking wall storage cabinet.

CJ2000S Master Interchangeable Puller Set. Same as CJ2000SB without the wall cabinet.

CJ2000A Master Interchangeable Puller Set. Same as CJ2000SB without the wall cabinet or the tool control board.



CJ2003A

Rear Axle Puller Set

CJ2003A Rear Axle Puller Set. Slide hammer power pulls many flange type rear axles as well as axle bearings. Includes:

CJ105-4B Slide Screw, 3/4"-16 x 22-1/2".

CJ137 Bearing Adaptor.

CJ97-3A Slide Hammer, 3 3/4 lb.

CJ123-1 Axle Yoke.

ME4A8 Lock Nut (3/4").

CJ127A Bearing Adaptor.

CJ66-19 Bearing Hook.

CJ128A Bearing Adaptor.

CJ Series Bearing Adaptors

Stock No.	Swivel Head Width, inches	Swivel Head Length, inches	Overall Length, inches
CJ127A	1.2	2.03	3.02
CJ128A	1.2	2.31	3.15
CJ137	1.2	2.9	3.24



CJ2005

Accessory Set

CJ2005 Accessory Set. Boost the versatility of the CJ2000A components with a bearing separator, a variety of centering adaptors, and a 12" yoke and clamp bolt to add spread to your bar type set.

Includes:

CJ81B1A Adaptor (1 1/8-1 1/2" Diameter).

CJ85-6 Adaptor (1 21/32-2 1/8" Diameter).

CJ81B2A Adaptor (1 1/4-1 5/8" Diameter).

CJ85-7 Adaptor (1 27/32-2 1/2" Diameter).

CJ81D1A Adaptor (1 1/8-1 5/8" Diameter).

CJ85-8 Adaptor (2 3/8-3 1/16" Diameter).

CJ81D2A Adaptor (13/16-1 11/32" Diameter).

CJ118-1 Yoke (6-10 1/2").

CJ118-2A Bolt.

CJ85-2 Jaw (1 3/4" Maximum reach).

CJ950 Bearing Separator.

CJ85-5 Adaptor (1 1/2-2" Diameter).

Pressure Screws

CJ83-9 Pressure Screw. Optional pressure screw for bar style interchangeable pullers. Applications include heavy duty truck transmissions like Eaton® transmissions found on Kenworth® heavy duty trucks. Can also be used with: CJ2000A, CJ2000S, CJ2000SB, CJ2002 and CJ2004. Thread: 3/4 - 16. Length: 8 3/4".



CJ2000SB



CJ2002

Gear Puller Set

CJ2002 Gear Puller Set. Use on Pitman® arms, timing gears, carrier side bearings and more. Combine to create 10 different pullers. Capacity from 6 to 10 tons depending on yoke and jaws used. Includes:

CJ105-11 Long Jaw Pin (4).

CJ87-1 3" Jaw (2).

CJ282-1 6" Jaw (2).

ME4A33 Hex Nut (4).

CJ82B Puller.

CJ66-15-3 Centering Point.

CJ83-3 Pressure Screw (9/16" hex).

CJ81-2A Jaw (2).

CJ84-16 Centering Point.

CJ83-2 Pressure Screw.

CJ85-1 Yoke (3-6 1/2").

CJ86-4A Bolt.

CJ85-3A Bolt.

CJ86-1 Yoke (1 3/4-4 1/2").

CJ85-4 Washer (4).



CJ2004

Interchangeable Puller Set

CJ2004 Interchangeable Puller Set. Use on bearings, bearing races, gears, bushing retainers, etc. Builds any of 12 different pullers. 2 and 3 jaw capability with 3 sets of jaws. All jaws reverse for inside and outside pulls. Pulling capacity: (short jaws) 4 1/2 ton, (medium jaws) 6 1/2 ton, (large jaws) 8 ton.

Includes:

CJ105A8 3-Way Jaw Control.

CJ105-3 Pressure Screw (3/4-16 x 13").

CJ105A9 2-Way Jaw Control.

CJ105-1 Yoke.

CJ105-5 Small Jaw (3).

CJ105-10 Short Jaw to Control Pin (3).

CJ105-6 Medium Jaw (3).

CJ105-11 Long Jaw Pin (4).

CJ105-7 Large Jaw (3).

CJ105-12 Cross Bar.

CJ66-15-3 Centering Point.

CJ86-1 Yoke (1 3/4-4 1/2").



WARNING



- Screen the puller application
- Inspect the puller, do not use damaged parts
- Use proper type and size puller for the job
- Read safety precautions on pages W1 to W4

PULLERS

Special Purpose



CJ2001P

Bolt Grip Puller Set

CJ2001P Bolt Grip Puller Set. Services steering wheels, flywheels, pulleys and gears with tapped holes. Includes a 4 position 2 and 3 way yoke, 3 different pressure screw tips and an assortment of fractional and metric bolts. Approximate spread to bolt is 1 1/4 to 3 13/16". Includes PB54B storage case.

CJ2001FBK Bolt and Washer Set. Replaces all fractional bolts and washers in CJ2001P bolt grip puller set.

CJ2001MBK Bolt and Washer Set. Replaces all metric bolts and washers in CJ2001P bolt grip puller set.



CG60GB

Tapped Hole Puller Set

CG60GB Tapped Hole Puller Set. Use on steering wheels with tapped holes. Includes 2 and 3 way yoke, pressure screw and adaptor plus 4 sets of studs.

CG60-17 Stud (M8-1.25) (2).

CG60R1 Yoke Pressure Screw (5/8"-18) (1).

CG60-7-4A Stud (5/16"-24) (2).

CG60-7-6 Stud (5/16"-18) (3).

CG60R2 Four-Arm Yoke (1).

CG60M2 Stud (3/8"-16) (3).

CG60R3 Pressure Screw Adaptor (1).



CJ93B

Small Slide Hammer Puller Set

CJ93B Small Slide Hammer Puller Set. Remove bushings, seals, sleeves, bearings, bearing races, bronze and oilite bushings, and pressed in studs. Includes 2 sets of jaws, grease retainer adaptor, bearing hook, body dent puller, stud pulling head and 2 lb slide hammer. Thread size is 3/8-16".



A78



SP2031

Small/Pilot Bearing Pullers

A78 Small Bearing Puller. For bearings and bushings typically found in small electric motors. Includes large jaw set for bronze and oilite bushings and small jaw set for smaller bearings and bushings. Up to 3 tons of pulling power.

SP2031 Pilot Bearing Puller (Blue-Point®). Attaches to slide hammer shafts with 3/4-16" or 5/8-18" threads. Pressure screw adaptor is made of stress resistant steel. Industrial finish.

Rear Axle Bearing Puller

CJ9180 Rear Axle Bearing Puller.

No slide hammer required. Removes axle bearing on free floating axle designs. Use with impact gun or by hand. Uniquely designed to brace against axle housing for complete removal of bearing assembly. Smooth, steady operation. Kit contains interchangeable feet to allow pulling of bearings with an I.D. from 1 to 2 7/8"



CJ9180

Automotive



CJ134

Steering Wheel Pullers

CJ134 Tilt Steering Pivot Pin Puller.

Allows efficient removal of the 2 pivot pins on all tilt steering columns used on Chrysler®, Ford® and GM® vehicles.



CG95B

CG95B Steering Wheel Lock Plate Remover.

Designed for airbag equipped Saginaw steering columns found on GM, Chrysler LH Series (LHS, Intrepid, Concorde, and Eagle Vision), some Toyota® and Saab® vehicles. Includes 1 narrow bridge, 1 wide bridge, 2 pressure screws: one has 9/16-18" threads, the other has M14-1.5 threads. The puller is zinc plated. Overall length is 4 7/8".



CJ145

CJ145 Steering Wheel Puller for GM Vehicles.

Use on new GM steering wheels with air bags including tilting and telescoping styles. Handle attachment facilitates puller set up and can be removed when working in confined areas. Applications: Buick® (1997 and later Park Avenue/Regal), Cadillac® (1997 and later Catera), Chevrolet®/GMC® (1997 and later Corvette/Malibu, 1998 C & K series trucks, 1998 full size vans, 1998 Astro/Safari vans), Oldsmobile® (1997 and later Cutlass) and Pontiac® (1988 to 1993 LeMans, 1997 and later Grand Prix/Trans Sport van).



CG6095A

CG6095A Master Steering Wheel Puller Set.

Combines the CG60GB Tapped Hole Puller and CG95B Lock Plate Remover. Lock Plate Remover is designed for servicing airbag equipped Saginaw steering columns found on GM, Chrysler LH Series (LHS, Intrepid, Concorde and Eagle Vision), some Toyota and Saab vehicles.



CJ131P

CJ131P Steering Wheel Puller and Lock Plate Depressor Set.

Includes a selection of bolts and a handle in PB72 storage case for servicing GM, Ford, Chrysler, and AMC® vehicles. Adaptors are included for servicing lock plates on all GM and AMC vehicles with tilt wheel. Detachable handle helps hold puller when turning force is applied to pressure screw. Industrial finish.



YA6490



CJ146



CJ117C



CJ124A



CJ3PSA



CJ147A

Harmonic Damper Pulley Pullers

YA6490 Harmonic Damper Pulley Puller. Use on many Chrysler®, Mitsubishi® and GM® engines. In most applications this compact tool eliminates the need to remove the radiator prior to removing the pulley. Includes short push rod for use on crankshafts that are not drilled full depth plus 2 other push rods. Applications: *GM:* 4.2 L Straight 6 cylinder: Chevy® Trailblazer, GMC® Envoy, Oldsmobile® Bravada (2003 and later), Buick® Rainier (2004 and later), 3.5 L Straight 5 cylinder: *Chevy* Colorado, *GMC* Canyon (2004 and later), Hummer® H3 (2006 and later), 2.8 L Straight 4 cylinder: *Chevy* Colorado, *GMC* Canyon (2005 and later), 5.7 L V8 (Gen III): Camaro, Corvette, Firebird and Trans-Am (1997 and later), Gen III trucks and SUVs with 4.8 L V8, 5.3 L V8, 6.0 L V8 and 8.1 L V8 (2000 and later) *Chrysler:* 3.3 L V6: (1990 and later vans), 3.3 L and 3.5 L V6 (1993-1997 automobiles), 3.8 L V6 (1994 and later vans), 8.0 L V10 (1994 and later pickups), 2.0 L 4 Cylinder, 2.4 L 4 Cylinder and 2.5 L V6 (1995 and later automobiles), 2.7 L DOHC V6, 3.2 L SOHC V6 and 3.5 L SOHC V6 (1998 and later automobiles), 4.7 L V8 (1998 and later) Cadillac®: 4.5 L V8: (1988-1992), 4.9 L V8: (1991-1995), 4.6 L V8: (1993 and later), 6.0 L V8: Escalade, *Mitsubishi:* 2.0L DOHC non turbo: Eclipse (1995-1999), *Oldsmobile:* 4.0 L V8: (1995 and later)

YA6491 Harmonic Damper Pulley Puller Update Kit. Updates earlier YA9740 pullers to the same applications as the new YA6490. Kit will also update other pulley pullers that are similar to the YA9740 series of pullers. Add YA6491 Update Kit to existing YA9740 series pullers to add these new applications: *GM:* 4.2 L straight 6 cylinder: *Chevy* Trailblazer, *GMC* Envoy, *Oldsmobile* Bravada (2003 and later), *Buick* Rainier (2004 and later), 3.5 L Straight 5 cylinder: *Chevy* Colorado, *GMC* Canyon (2004 and later), *Hummer* H3 (2006 and later), 2.8 L straight 4 cylinder: *Chevy* Colorado, *GMC* Canyon (2005 and later)

CJ146 GM Crankshaft Harmonic Balancer Kit. Remove the crankshaft harmonic balancer on 1990 and later 3.3 and 3.8 L *GM* engines. Shoulder bolt adaptors provide correct installation depth, preventing damage to the crank sensor and interrupter rings. Includes (3) CJ146-1 adaptors and (1) CJ146-2 extension plus vinyl storage pouch. Requires Snap-on® CJ98-1 yoke and CJ83-3 pressure screw for use (not included). Separate purchases and not included with kit.

Power Steering and Alternator Pullers

CJ122 Power Steering Pulley Installer Set. Includes CJ113B installer and CJ113C4 pulley installer shaft. Thread size of 5/8"-18UNF-2A (puller end), 3/8" 16UNC-2A (shaft end).

CJ138 Pulley Installer. 8 mm pulley installer features a black industrial finish and a thrust bearing for easier installation. Applications: power steering pulley on *Ford* 4.6 L V8 (1991 and later), *Ford* 2.5 L V6 (1995 and later) plus the installation of water pump drive pulleys on *GM* 4.6 L (1992 and later *Oldsmobile* Aurora).

CJ113B Power Steering/Alternator Pulley Installer. Designed for U.S. cars.

1" pulley driver hex, 7/16" pressure screw hex, thread size of 5/8"-18UNF-2A (puller end), 3/8" 16UNC-2A (shaft end). 4 5/8" long.

CJ113B3 Bushing. Included with CJ113B.
CJ113C4 Pulley Installer Shaft. Length of 4.62" (optional). Thread size of 5/8"-18UNF-2A (puller end), 3/8" 16UNC-2A (shaft end).



CJ122



CJ138



CJ113B

CJ117C Power Steering and Alternator Pulley Puller.

Includes short adaptor to remove small flange type pulley; use long adaptor on *GM* 200/Platform vehicles. Can also remove alternator pulleys on *Chrysler* vehicles that have double grooves. Replace pulleys with CJ113B Installer. Long adaptor included to handle pulleys on *GM* minivans. Nickel/chrome finish, industrial finish screw. Designed for most U.S. vehicles (replace pulley with CJ122 sets). Long adaptor included to handle pulleys on *GM* minivans. Nickel/chrome finish, industrial finish screw.

CJ124A Power Steering/Alternator Pulley Puller. Larger version of CJ117C. Designed for *Chrysler*, *Ford* and earlier *GM* vehicles.

CJ3PSA Power Steering and Alternator Pulley Puller/Installer Set. Set includes CJ113B, CJ117C, and CJ124A pullers.

CJ147A Power Steering Gear Lower Pinion Bearing Puller. Required tool to comply with *GM* Recall Bulletins #02049 and #03062 regarding power steering gear lower pinion bearing separation. To correct the problem, inspect the condition of the lower pinion bearing and replace the lower pinion bearing. In a few cases, replacement of the rack and pinion steering gear assembly may be necessary. Instructions included.

Applications:

Buick:
Regal 1996-1998
Chevrolet:
Cavalier 1996-1998
Lumina 1997-1998
Lumina 1997-1998
Lumina APV 1996
Monte Carlo
1997-1998
Venture 1997-1998

Oldsmobile:
Cutlass 1997-1998
Cutlass Supreme
1996-1998
Silhouette
1996-1998
Intrigue 1998

Pontiac:
Grand Prix 1996-1998
Sunfire 1996-1998
Trans Sport 1996-1998



CJ132A

CJ132A Master Power Steering Pump/Alternator Puller/Installer Set.

GM Quad 4, *GM* 3.1 L and *Ford* 4.6 L applications. Removes/installs press on, belt driven accessory pulleys. Removal housing for grooved hub diameters of 1 1/8", 1 5/16" and 1 3/8". Includes components for 3/8"-16 threaded shaft. Housing holding bar prevents main housing from spinning during use with an impact wrench. Quad 4 installation nut simplifies usage with 4 cylinder *GM* vehicles. Includes instructions and carrying case.

Pitman® Arm Pullers

CJ119B Pitman Arm Puller. Designed for most U.S. cars and light trucks. Pressure screw size: 3/4"-16 x 6 7/8". Industrial finish.

CJ115 Pitman Arm Puller. Similar in design to CJ119B except it is designed for compact and intermediate size cars.

PAS110 Pitman Arm Puller. *Pitman* arm remover for 2 ton and heavier trucks. Quickly and easily remove stuck *Pitman* arms. The tool wedge opens the *Pitman* arm slots for removal. Can also be used with impact wrench.

YA6880 Low Profile Pitman Arm Puller. Fits in the confined space on most *GM* 1988-2000 C & K chassis trucks and SUVs. Also fits 2001 to present trucks and SUVs with steering gear box/*Pitman* arms. Forged chromoly steel for strength and durability. Design allows the technician to remove the arm off the steering gear box without altering the boxes position as a substantial time saver. Patent pending.



CJ119B



PAS110



WARNING



- Screen the puller application • Inspect the puller, do not use damaged parts
- Use proper type and size puller for the job • Read safety precautions on pages W1 to W4

PULLERS

General Purpose Interchangeable



Light Duty

Builds Pullers:

Stock No.	Puller Type	Maximum Reach, inches	Outside Spread, inches	Inside Spread, inches
CG240	2 Jaw	2 1/2	0-3	7/8-3 1/4
CG240H	2 Jaw	2 1/2	0-3	7/8-3 1/4
CG243	3 Jaw	2 1/2	3	7/8-3 1/4
CG243H	3 Jaw	2 1/2	3	7/8-3 1/4

CG2400B Light Duty Puller Set. This versatile set provides 2 or 3 jaw pulling with pressure screw or slide hammer options. Interchange parts to build any of the 5 puller combinations.

- Up to 2 1/2 tons of pulling power
- 3" diameter capacity for outside pulls



Heavy Duty

Builds Pullers:

CG2510BSHY

Stock No.	Puller Type	Maximum Reach, inches	Outside Spread, inches	Inside Spread, inches
CG654HY	Hydraulic, 2 Jaw	3	0-4 1/2	1 1/2-3 1/2
CG655HY	Hydraulic, 3 Jaw	3	0-4 1/2	1 1/2-3 1/2
CG270	2 Jaw	5 1/2	8 1/2	2 1/2-7
CG270H	2 Jaw	5 1/2	0-8 1/2	2 1/2-7
CG270S	Special Grip, 2 Jaw	5 1/2	0-8 1/2	2 1/2-7
CG273	3 Jaw	5 1/2	0-8 1/2	2 1/2-7
CG273H	3 Jaw	5 1/2	8 1/2	2 1/2-7
CG280	Long Jaw, 2 Jaw	8	0-10	3-8
CG283	Long Jaw, 3 Jaw	8	0-10	3-8
CG274HY	Hydraulic, 2 Jaw	8 3/4	10	3-8
CG275HY	Hydraulic, 3 Jaw	8 3/4	0-10	3-8

The CG2510 and CG2500 Series delivers:

- Up to 12 1/2 tons of pulling power
- 10" diameter capacity for outside pulls
- From 3/4 to 8" diameter capacity for inside pulls

CG2510BSBHY Heavy Duty Manual/Hydraulic Puller Set. Includes 40 interchangeable components, including the C 1224 10 ton hydraulic power kit. All components are displayed on a VE213 tool control board, which is mounted inside a KRA276D wall cabinet.

CG1224 Hydraulic Conversion Kit. 10 ton. Converts C 270, C 273, C 280, and C 283 manual pullers (on Tool Control Panel "A") and C 1700/C 2500B puller sets to hydraulic power.

VE213 Tool Control Board. Tool control board for the C 2500BSBHY manual/hydraulic puller set.

Medium duty pullers deliver up to 7 1/2 tons of pulling power, 4 1/2" diameter capacity for outside pulls and from 3/4 to 8" diameter capacity for inside pulls. CG6223 hydraulic conversion set converts CG250 and CG253 manual pullers to hydraulic power. The manual components of the indicated medium duty pullers are included in the heavy duty (C 2500 / C 2510 Series) sets.



Medium Duty

Builds Pullers:

CG250

Stock No.	Puller Type	Maximum Reach, inches	Outside Spread, inches	Inside Spread, inches
CG250	2 Jaw	3	4 1/2	1 1/2-3 1/2
CG250H	2 Jaw	3	0-4 1/2	1 1/2-3 1/2
CG250HL	Long Jaw, 2 Jaw	6	0-8 1/2	3/4-8
CG253	3 Jaw	3	4 1/2	1 1/2-3 1/2
CG253H	3 Jaw	3	4 1/2	1 1/2-3 1/2
CG253L	3 Jaw	6		3/4-8



CG2500BSB

The big C 2510BSBHY set builds 45 different pullers with dozens of pulling variations from the included 40 components and 10 ton hydraulic set. Without hydraulics (C 2500BS Manual Set), 32 separate pullers are still possible. Add the Snap-on® CG6223 6 ton hydraulic power kit and add 7 puller combinations to each set.

CG2510BSHY Heavy Duty Manual/Hydraulic Set. Same as C 2510BSBHY set mounted on a VE213 tool control board. Does not include the wall cabinet.

CG2510BHY Heavy Duty Manual/Hydraulic Puller Set. Same as C 2510BSBHY Set except it doesn't include either the tool control board or the wall cabinet.

CG2500BSB Heavy Duty Manual Puller Set. This is the C 2510BSBHY set less the 10 ton hydraulic power kit components. Tool control board for this set is VE113B; wall cabinet is KRA276D.

VE113B Tool Control Board. Panel "A" is designed to hold the components for C 2500BS interchangeable puller set (6, 7 1/2, 10 and 12 1/2 ton capacity). Also used as the tool control board for the C 2500BSB manual puller set.

CG2500BS Heavy Duty Manual Puller Set. Same as C 2500BSB set mounted on a VE113B tool control board, without the KRA276D wall cabinet.

CG2500B Heavy Duty Manual Puller Set. Same as C 2500BSB set, without the tool control board or the wall cabinet.

CG270SETX Long Puller Jaw Set. Adds extra reach capability to any C 270 or C 280 series puller, the C 1700 set and any C 2500B series set. Includes (3) C 270-12 extra long jaws and (1) C 270-13 pressure screw adaptor.

2 Jaw Pressure Screw



CG240



CG250



CG270A



CG280



CG305

2 Ton Capacity (1.8 t), 2 Jaw

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG240	2 1/2 (64)	7/8-3 1/4 (22-83)	3 (76)	3/8-16 x 5 1/16	3/16 (5)	3/8 (10)
CG240L	3 1/2 (89)	7/8-3 3/4 (25-95)	4 (102)	3/8-16 x 6 1/16	3/16 (5)	3/8 (10)

6 Ton Capacity (5.4 t), 2 Jaw

CG250A*	3 (76)	1 1/2-3 1/2 (38-89)	4 1/2 (114)	5/8-18 x 6 7/8	1/4 (6)	3/4 (19)
CG250	3 (76)	1 1/2-3 1/2 (38-89)	4 1/2 (114)	5/8-18 x 6 7/8	1/4 (6)	3/4 (19)

10 Ton Capacity (9.1 t), 2 Jaw

CG270	5 1/2 (140)	2 1/2-7 1/2 (64-178)	8 1/2 (216)	3/4-16 x 9 13/16	1/4 (6)	15/16 (24)
CG270A*	5 1/2 (140)	2 1/2-7 1/2 (64-178)	8 1/2 (216)	3/4-16 x 9 13/16	1/4 (6)	15/16 (24)
CG272	5 1/2 (140), 8 3/4 (222)	2 1/2-7 1/2 (64-178), 3-8 (76-203)	8 1/2 (216), 10 (254)	3/4-16 x 9 13/16 3/4-16 x 12 1/8	1/4 (6) 1/4 (6)	15/16 (24) 15/16 (24)
CG270S	5 1/2 (140)	2 1/2-7 1/2 (64-178)	8 1/2 (216)	3/4-16 x 9 13/16	1/4 (6)	15/16 (24)
CG280	8 3/4 (222)	3-8 (76-203)	10 (254)	3/4-16 x 12 1/8	1/4 (6)	15/16 (24)
CG284**	15 (381)	4 3/4-11 1/2 (121-292)	13 3/4 (349)	3/4-16 x 18 15/16	3/8 (10)	1 (25)

*Includes CG1 pulling plate. **Includes pressure screw extension.

20 Ton Capacity (18.1 t), 2 Jaw

CG300	9 1/2 (241)	3 1/2-10 (89-254)	12 (305)	1-14 x 15	7/16 (11)	1 1/4 (32)
CG305	14 3/8 (365)	5-13 (127-330)	16 (406)	1-14 x 19	9/16 (14)	1 1/4 (32)

3 Jaw Pressure Screw



CG243



CG253L



CG253

2 1/2 Ton Capacity (2.3 t), 3 Jaw

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG243	2 1/2 (64)	7/8-3 1/4 (22-83)	3 (76)	3/8-16 x 5 1/16	3/16 (5)	3/8 (10)
CG243L	3 1/2 (89)	7/8-3 3/4 (22-95)	4 (102)	3/8-16 x 6 1/16	3/16 (5)	3/8 (10)

6 Ton Capacity (5.4 t), 3 Jaw

CG253L	6 (152)	3/4-8 (19-203)	5/8-18 x 6 7/8	7/32 (5)	5/16 (8)	3/8 (10)
--------	---------	----------------	----------------	----------	----------	----------

7 1/2 Ton Capacity (6.8 t) 3 Jaw

CG253	3 (76)	1 1/2-3 1/2 (38-89)	4 1/2 (114)	5/8-18 x 6 7/8	1/4 (6)	3/4 (19)
-------	--------	---------------------	-------------	----------------	---------	----------

12 1/2 Ton Capacity (11.3 t), 3 Jaw

CG273	5 1/2 (140)	2 1/2-7 1/2 (64-178)	8 1/2 (216)	3/4-16 x 9 13/16	1/4 (6)	15/16 (24)
CG273A	5 1/2 (140)	2 1/2-7 1/2 (64-178)	8 1/2 (216)	3/4-16 x 9 13/16	1/4 (6)	15/16 (24)
CG283	8 (203)	3-8 (76-203)	10 (254)	3/4-16 x 12 1/8	1/4 (6)	15/16 (24)
CG285	15 (381)	4 3/4-11 1/2 (121-292)	13 3/4 (254)	3/4-16 x 18 15/16	3/8 (10)	1 (25)

20 Ton Capacity (18.1 t) Combination 2 and 3 Jaw

CG343	9 1/2 (241)		13 (330)	1-14 x 15	7/16 (11)	1 1/4 (32)
CG348	14 3/8 (365)		16 (406)	1-14 x 19	9/16 (14)	1 1/4 (32)
CG325	19 (482)		20 (508)	1 3/8-8 x 21 11/16	1 1/8 (29)	1 1/2 (38)

Pulling Plate

CG1 Pulling Plate.

Ideal where there is no gripping surface for the puller alone. Attach plate to item being pulled – puller clamps behind the plate. Includes 4 each of the following screws: 1/4"-20 x 3/4" and 1/4"-28 x 1". Plate has a 3 5/8" diameter.



CG1

Flat Points

CG250-21 Flat Point. Fits CG250 series pullers.

CG270-21 Flat Point. Fits CG270 and CG280 series pullers.

CG300-21 Flat Point. Fits CG300 and CG305 series pullers.

CG325-21 Flat Point. Fits CG325 series pullers.

CG70 Flat Point Set. Includes CG270-21, CG300-21 and CG325-21 flat points.



WARNING



- Screen the puller application • Inspect the puller, do not use damaged parts
- Use proper type and size puller for the job • Read safety precautions on pages W1 to W4

PULLERS

2 Jaw Slide Hammer



CG240H



CG250C



CG250HL



CG270C

2 Ton Capacity (1.8 t) - 1 1/16 lb Hammer

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Slide Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG240H	2 1/2 (63)	7/8-3 1/4 (22-82)	3 (76)	3/8-16 x 12 5/8	3/16 (5)	3/8 (10)
CG240HL	3 1/2 (88)	7/8-3 3/4 (25-95)	4 (102)	3/8-16 x 12 5/8	3/16 (5)	3/8 (10)

6 Ton Capacity (5.4 t) - 2 1/8 lb Hammer

CG250C*	3 (76)	1 1/2-3 1/2 (38-89)	4 1/2 (114)	5/8-18 x 18 1/16	1/4 (6)	3/4 (19)
CG250H	3 (76)	1 1/2-3 1/2 (38-89)	4 1/2 (114)	5/8-18 x 18 1/16	1/4 (6)	3/4 (19)
CG250HL	6 (152)	3/4-8 (19-203)		5/8-18 x 18 9/16	7/32 (5)	5/16 (8)

*Includes CG250H puller, CG1 pulling plate and pressure screw.

10 Ton Capacity (9.1 t) - 3 1/2 lb Hammer

CG270C**	5 1/2 (140)	2 1/2-7 1/2 (64-178)	8 1/2 (216)	3/4-16 x 23 3/8	1/4 (6)	15/16 (24)
CG270H	5 1/2 (140)	2 1/2-7 1/2 (64-178)	8 1/2 (216)	3/4-16 x 23 3/8	1/4 (6)	15/16 (24)

**Includes CG1 pulling plate and pressure screw.

3 Jaw Slide Hammer



CG243H



CG253H



CG273C

2 1/2 Ton Capacity (2.3 t) - 1 1/16 lb Hammer

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Slide Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG243H	2 1/2 (64)	7/8-3 1/4 (22-83)	3 (76)	3/8-16 x 12 5/8	3/16 (5)	3/8 (10)
CG243HL	3 1/2 (89)	7/8-3 3/4 (25-95)	4 (102)	3/8-16 x 12 5/8	3/16 (5)	3/8 (10)

7 1/2 Ton Capacity (6.8 t) - 2 1/8 lb Hammer

CG253H	3 (76)	1 1/2-3 1/2 (38-89)	4 1/2 (114)	5/8-18 x 18 1/16	1/4 (6)	3/4 (19)
--------	--------	---------------------	-------------	------------------	---------	----------

12 1/2 Ton Capacity (11.3 t) - 3 1/2 lb Hammer

CG273C*	5 1/2 (140)	2 1/2-7 1/2 (64-178)	8 1/2 (216)	3/4-16 x 23 3/8	1/4 (6)	15/16 (24)
CG273H	5 1/2 (140)	2 1/2-7 1/2 (64-178)	8 1/2 (216)	3/4-16 x 23 3/8	1/4 (6)	15/16 (24)

*Includes CG273H puller, CG1 pulling plate and pressure screw.

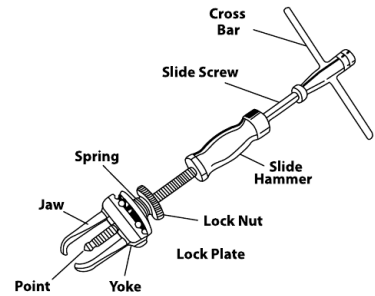


CG270-3S

CG270-3S Special Grip Jaw.

Engineered for 2x the gripping surface area of standard jaws. Can be used with any of the CG270 and CG273 series pressure screw and slide hammer pullers.

Quick Reference Charts



2 and 2 1/2 Ton Puller Group (CG240 Series): 1 1/16 lb Hammer (CG240H Series)

Stock No.	2 Jaw Yoke CG240-2	3 Jaw Yoke CG243-2	Std. Pres. Screw CG240-1	Long Pres. Screw CG240-11	Slide Screw CG240-8	Slide Hammer CG240-9	2 Jaw Lock Plate CG240-5	3 Jaw Lock Plate CG243-5	Spring CG240-6	Adj. Nut CG240-7	Std. Jaw CG240-3	Long Jaw CG240-10
CG240	1		1				1		1	1	2	
CG240L	1			1			1		1	1		2
CG240H	1				1	1	1		1	1	2	
CG240HL	1				1	1	1		1	1		2
CG243		1	1				1	1	1	1	3	
CG243L		1		1				1	1	1		3
CG243H		1			1	1		1	1	1	3	
CG243HL		1			1	1		1	1	1		3

6 and 7 1/2 Ton Puller Group (CG250 Series): 2 1/8 lb Hammer (CG250H Series)

Stock No.	2 Jaw Yoke CG250-2	3 Jaw Yoke CG253-2	Pressure* Screw CG250-1A	Slide* Screw CG250-8A	Slide Hammer CG250-9	Cross Bar CG10F	Lock Plate CG250-5	Spring CG250-6	Adj. Nut CG250-7	Std. Jaw CG250-3	Long Jaw CG250-10	Pulling Plate CG1
CG250	1		1				1	1	1	2		
CG250A	1		1				1	1	1	2		1
CG250C	1		1	1	1	1	1	1	1	2		1
CG250H	1			1	1	1	1	1	1	2		
CG250HL	1			1	1	1	1	1	1		2	
CG253		1	1				1	1	1	3		
CG253H		1		1	1	1	1	1	1	3		
CG253L		1	1				1	1	1		3	
CG2500B**	1	1	1	1	1	1	2	2	2	3	3	

*CG250-20 replacement point and CG250-21 flat point for CG250 series.
CG250-8A has 5/8" UNF threads.

**CG2500B continued in next chart

10 and 12 1/2 Ton Puller Group (CG270, CG280 Series): 3 1/2 lb Hammer (CG270H Series)

Stock No.	2 Jaw Yoke CG270-2	3 Jaw Yoke CG273-2	Std. Pres.* Screw CG270-1A	Long Pres.* Screw CG270-11A	Man. Adaptor CG270-13	Slide* Screw CG270-8A	Slide Hammer CG66-2	2 Jaw Lock Plate CG270-5	3 Jaw Lock Plate CG273-5	Spring CG270-6	Lock Nut CG270-7	Std. Jaw CG270-3	Long Jaw CG270-10	Special Jaw CG270-3S	Extra Long Jaw CG270-12
CG270	1		1					1		1	1	2			
CG270A	1		1					1		1	1	2			
CG270C	1		1			1	1	1		1	1	2			
CG270H	1					1	1	1		1	1	2			
CG270S	1		1					1		1	1			2	
CG272	1			1				1		1	1		2		
CG273A		1	1						1	1	1	3			
CG273C		1	1			1	1		1	1	1	3			
CG273H		1				1	1		1	1	1	3			
CG280	1			1				1		1	1		2		
CG283		1		1					1	1	1		3		
CG284	1			1	1			1		1	1				2
CG285		1		1	1					1	1				3
CG2500B	1	1	1	1		1	1	1	1	2	2	3	3	3	

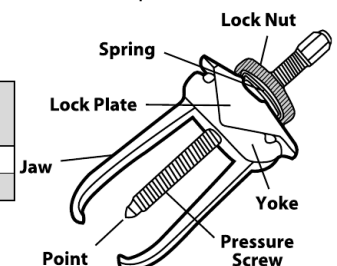
*CG270-20 replacement point for CG270/CG280 series pullers.
CG270-8A has 3/4-16 UNF threads.

CG270-21 flat point for CG270/CG280 series pullers.

20 Ton Pullers (CG300 Series)

Stock No.	2 Jaw Yoke CG300-2	Pressure Screw CG300-1	Pressure Screw CG305-8	Lock Plate CG300-5	Spring CG300-6	Lock Nut CG300-7	Std. Jaw CG300-3	Long Jaw CG305-9
CG300	1	1		1	1	1	2	
CG305	1		1	1	1	1		2

*CG300-20 replacement point and CG300-21 flat point for CG300 and CG305 series pullers.



WARNING



- Screen the puller application • Inspect the puller, do not use damaged parts
- Use proper type and size puller for the job • Read safety precautions on pages W1 to W4

PULLERS

Industrial

VE113B
Panel A



VE138-3B
Panel B

VE138-2B
Panel C



VE138-1B
Panel D

CG1038KA

Industrial Puller Sets

CG1038KA Industrial Puller Set. Includes more than 35 basic pullers that will assemble into more than 165 puller combinations. Standard pullers in this set have a range from 2 to 20 tons. The hydraulic power components provide up to 20 tons of easy pulling power. Optional 10 and 50 ton hydraulic accessories are available. Components are mounted on (4) 24" x 32" x 3/4" tool control panels (labeled A, B, C and D below) with white silhouettes. The panels are mounted on KRA213E A-frame.

CG1038K Industrial Puller Set. This is the CG1038KA set but does not include the KRA213E A-frame.

CG1050KA Expanded Industrial Puller Set. Includes CG1038KA set plus the CG1224 power kit for converting 10 ton manual pullers to hydraulic power; CG300-1, CG305-8, and CG350-1 pressure screws; CG343-1 4" plug; CG350-2 manual yoke for converting the 20 ton hydraulic pullers to manual power; and CG555 basic hydraulic set for building a 50 ton hydraulic bar type puller. Also includes CG420-5C pressure gauge, CG420-6 gauge mounting adaptor, 10 CG250-20 small centering adaptors and 10 CG270-20 large centering adaptors.

KRA213E A-Frame. Mobile unit features 23,220 cu in, 1,260 sq in of storage for convenient access and orderly storage. Measures 26 1/2" x 52 3/8" x 32 3/8".

Tool Control Boards

VE113B Tool Control Board. Panel A is designed to hold the components for CG2500BS interchangeable puller set (6, 7 1/2, 10 and 12 1/2 ton capacity). Also used as the tool control board for the CG2500BSB manual puller set.

CG250 Screw Type Puller.

CG250H Medium Slide Hammer.

CG250HL Medium Slide Hammer.

CG253 Screw Type Puller.

CG253H Medium Slide Hammer.

CG270 Screw Type Puller.

CG270H Large Slide Hammer.

CG270S Screw Type, Special Grip.

CG273 Screw Type Puller.

CG273H Large Slide Hammer.

CG280 Screw Type Puller.

CG283 Screw Type Puller.

VE138-2B Tool Control Board. Panel C is designed to hold CG450HYA 20 ton hydraulic bar type puller components and the components of CG2545AB blind hole bearing puller set.

CG40C Blind Hole Bearing Set.

CG45 Blind Hole Bearing Set.

CG450 Bar Type Puller.

CG450HYA Hydraulic Bar Type Puller.

VE138-1B Tool Control Board. Panel D is designed to hold components of CG400 20 ton jaw type puller, three CG305-9 long jaws, CG455 and CG455A threaded adaptor sets, plus CG455-18 and CG455-19 pressure screw adaptors. The adaptors are for use with the bar type pullers on tool control panel C.

CG400 Jaw Type Puller.

CG400HYA Hydraulic Jaw Type Puller.

CG405 Jaw Type Puller.

CG450HYA Hydraulic Bar Type Puller.

VE138-3B Tool Control Board. Panel B is designed to hold CG2400 light duty puller set, CJ840C tapped hole puller set, CJ949 bearing separator and CJ9500 bearing separator set components.

CG240 Screw Type Puller.

CG240H Small Slide Hammer.

CG243 Screw Type.

CG243H Small Slide Hammer.

CJ93B Small Slide Hammer.

CJ840C Bar Type Tapped Hole Puller.

CJ949 Bearing Separator.

CJ950 Bearing Separator.

CJ951 Bearing Separator.

CJ952 Bearing Separator.

Features of 2 Stage Hydraulic Pumps

- 2 stage design will advance 20 to 50 ton rams in the low pressure stage in less than 1/3 the strokes required on other models
- C 520 Ram extends in 60 to 70 strokes
- C 420 Ram extends in 17 to 19 strokes
- When high pressure is required, the low pressure stage automatically kicks out to leave the high pressure stage to do the work



CG420-2A

One stage 20, 35 and 50 ton pump 24 fl oz capacity



CG420-2S

Two stage 20, 35 and 50 ton pump 24 fl oz capacity



CG4-2A

4 to 10 ton pump 5 fl oz capacity



CG520 50 ton Ram



CG420-1A 20 ton Ram



CG650 6 ton Ram



CG720 35 ton Ram

Ram (Cylinder) Specifications

Capacity, tons	Stock No.	Stroke, inches	Collapsed Height, inches	Extended Height, inches	Effective Area (piston)	Oil Capacity, cu in	Pressure Screw Size, inches
4	CG220	2 1/4	6	8 1/4	.966	2.174	1/2-13 x 14 1/4
6	CG650	1 1/2	4 11/16	6 3/16	1.473	2.210	5/8-11 x 13 1/4
10	CG120	1	4 3/4	5 3/4	2.440	2.440	3/4-10 x 16 1/4
20	CG420-1A	2	6	8	4.418	8.836	1 1/8-8 x 20 1/2
35	CG720	2 1/2	7	9 1/2	7.903	19.758	1 3/8-8 x 25
50	CG520	3	8 1/8	11 1/8	11.066	33.198	1 5/8-5 1/2 x 30

CG222 4 Ton Set

Includes:
CG120-3-1 Hose.
CG120-4 Coupler Set.
CG220 4 Ton Ram.
CG220-13 Pressure Screw.
CG4-2A 4 to 10 Ton Hyd. Pump.

CG652 6 Ton Set

Includes:
CG120-3-1 Hose.
CG120-4 Coupler Set.
CG250-20 Replacement Point.
CG4-2A 4 to 10 Ton Hyd. Pump.
CG650 6-Ton Ram.

CG122 10 Ton Set

Includes:
CG120 10 Ton Ram.
CG120-13 Pressure Screw.
CG120-3-1 Hose.
CG120-4 Coupler Set.
CG270-20 Replacement Point.
CG4-2A 4 to 10 Ton Hyd. Pump.

CG420A 20 Ton Set

Includes:
CG420-1-14 Centering Adaptor.
CG420-1A 20 Ton Ram.
CG420-2A 1 Stage Pump.
CG420-3-1 Hose.
CG420-4 Coupler Set.
CG420A2S 20 Ton Set.
Same as CG420A with the CG420-2S two stage pump.

Hydraulic Accessories

Both conversion kits provide hydraulic power for the pullers, which are included in the CG2500B puller sets.



CG1224

CG6223 6 Ton Power Kit.

Converts CG250 and CG253 manual pullers to hydraulic power.

Includes:
CG652 6 Ton Pump and Ram Set.
CG250-15 2 Jaw Yoke.
CG250-16 Hand Wheel Adaptor.
CG253-15 3 Jaw Yoke.

CG1224 10 Ton Power Kit.

Converts C 270, C 273, C 280 and C 283 manual pullers (on tool control panel "A") and C 1700/C 2500B puller sets to hydraulic power.

Includes:
CG122 10 Ton Pump and Ram Set.
CG270-15 2 Jaw Yoke.
CG270-16 Hand Wheel Adaptor.
CG273-15 3 Jaw Yoke.



CG420-5C

CG420-5C Pressure Gauge.

Can be used with 6, 10, 20, 35 and 50 ton hydraulic equipment. Use CG4-2A, CG420-2A or CG420A-2S pumps. Indicates hydraulic pressure in tons of pressure as well as psi. Adaptor CG420-6 is required to attach gauge to pumps.



CG420-6

CG420-6 Gauge Mounting Adaptor.

Mounts CG420-5C pressure gauge to 6, 10, 20, 35 and 50 ton hydraulic systems.



WARNING



- Screen the puller application
- Inspect the puller, do not use damaged parts
- Use proper type and size puller for the job
- Read safety precautions on pages W1 to W4

PULLERS

2 and 3 Jaw Hydraulic



CG654HY



CG655HY

6 Ton Capacity (5.4 t)

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG654HY Hydraulic, 2 Jaw	3 (76)	1 1/2-3 1/2 (38-89)	4 1/2 (114)	5/8-11 x 13 3/4	1/4 (6)	3/4 (19)
CG655HY* Hydraulic, 3 Jaw	3 (76)	1 1/2-3 1/2 (38-89)	4 1/2 (114)	5/8-11 x 13 3/4	1/4 (6)	3/4 (19)

*Includes hydraulic ram and pump set.

*To convert to manual power, use pressure screw, adjusting nut and yoke from either CG250 or CG253 Pullers.



CG274HY



CG277HY

10 Ton Capacity (9.1 t)

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) inside	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG274HY 2 Jaw Model	8 3/4 (222)	3-8 (76-203)	3-8 (76-203), 10 1/2 (266)	3/4-10 x 16 1/4	1/4 (6)	15/16 (24)
CG275HY 3 Jaw Model	8 3/4 (222)	3-8 (76-203)	10 (254)	3/4-10 x 16 1/4	1/4 (6)	15/16 (24)
CG276HY 2 Jaw Model	15 (381)	4 3/4-11 1/2 (121-292)	13 3/4 (349)	3/4-10 x 23 3/8	3/8 (9)	1 (25)
CG277HY* 3 Jaw Model	15 (381)	4 3/4-11 1/2 (121-292)	13 3/4 (349)	3/4-10 x 23 3/8	3/8 (9)	1 (25)

*Includes hydraulic ram and pump set.

*To convert to manual power, use pressure screw, adjusting nut and yoke from either CG270 or CG273 Pullers.



CG400HYA



CG343



CG405HYA



CG425HYA



CG560HY

20 Ton Capacity (18.1 t) - Combination 2 and 3 Jaw

Stock No.	Maximum Reach, inches	Max. Spread, in. (mm) outside	Pressure Screw Size, inches	Jaw Thickness, in. (mm)	Jaw Width, inches (mm)
CG400HYA*	9 1/2 (241)	13 (330)	1 1/8-8 x 20 1/2	7/16 (11)	1 1/4 (32)
CG400HYA2S	CG400HYA with two stage pump				
CG400	CG400HYA less hydraulic ram and pump				
CG343	Manual version of CG400HYA. Includes CG343-1 4" Plug and CG300-1 1"-14 Pressure Screw in place of ram and pump				
CG343-1	4" Plug				
CG300-1	1-14 Pressure Screw				
CG405HYA*	14 (355)	15 (381)	1 1/8-8 x 20 1/2	9/16 (14)	1 1/4 (32)
CG405HYA2S	CG405HYA with two stage pump				
CG405	CG405HYA less hydraulic ram and pump				
CG348	Manual version of CG405HYA. Includes CG343-1 4" Plug and CG305-8 1"-14 Pressure Screw in place of ram and pump				
CG425HYA*	19 (482)	20 (508)	1 1/8-8 x 20 1/2	1 1/8 (29)	1 1/2 (38)
CG425HYA2S	CG425HYA with two stage pump				
CG425	CG425HYA less hydraulic ram and pump				
CG325	Manual version of CG425HYA. Includes 1 3/8-8 x 20 11/16" pressure screw in place of pump, ram, washer adaptor, ram adaptor, and cap screws				

*Included with hydraulic ram.

50 Ton Capacity (45.36 t) - Combination 2 and 3 Jaw

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm) outside	Pressure Screw Size, inches	Jaw Thickness, inches (mm)	Jaw Width, inches (mm)
CG560HY*	28 (711)	44 (1,118)	1 5/8-5 1/2 x 30	1 7/16 (36)	2 (51)
CG560HY2S	CG560HY w/ 2 stage pump				

*Included with hydraulic ram.

Bar Type Manual Tapped Hole Sets

6 Ton Capacity (5.4 t), Tapped Hole

Stock No.	Max. Reach, in. (mm)	Max. Spread, in. (mm)	Pressure Screw Size, inches	Side Rods	Side Rod Adaptors (2 each), inches
CJ840C	33 (838)	2 5/8 - 11 5/8 (67-295)	1-14 x 33	5/8 - 18	1/2 - 20, 1/2 - 13, 3/4 - 16, 3/4 - 10,
Complete Puller Set	Side rods in set are provided 2 each in 5" (CJ84-5), 10" (CJ84A2) and 20" (CJ84-3) lengths				3/8 - 24, 3/8 - 16, 5/16 - 24, 5/16 - 18, 7/16 - 20, 5/8 - 18, 5/8 - 11, 7/16 - 14
CJ84C	CJ840C less all adaptors and side rods except 5/8 - 18 x 10				
Basic Puller Set					1/2 - 20, 1/2 - 13, 5/8 - 18, 5/8 - 11, 3/4 - 16, 3/4 - 10



CJ840C

Bar Type Manual Push/Pull Sets

6 Ton Capacity (5.4 t), Push/Pull

Stock No.	Max. Reach, in. (mm)	Max. Spread, in. (mm)	Pressure Screw Size, inches	Pressure Screw Adaptors	Side Rods, inches	Side Rod Adaptors, inches
CG706 Push/Pull Set	14 1/8 (358)	2 5/8 - 7 1/2 (67-191)	5/8 - 18 x 10		7/16 - 14 x 8 (4 each)	7/16 - 14f x 5/8 - 18m



CG706

10 Ton Capacity (9.1 t), Push/Pull

Stock No.	Max. Reach, in. (mm)	Max. Spread, in. (mm)	Pressure Screw Size, inches	Pressure Screw Adaptor	Side Rods, inches
CG710 Push/Pull Set	17 5/8 (448)	3 9/16 - 9 3/8 (90-238)	3/4 - 16 x 12	CG710-3 3/4 - 16f x 5/8 - 18m	(2) 5/8 - 18 x 8, (2) 5/8 - 18 x 12



CG710

Bar Type Hydraulic/Manual Sets

6 Ton Capacity (5.4 t), Hydraulic

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm)	Pressure Screw Size, inches	Pressure Screw Adaptor	Side Rods, inches	Side Rod Adaptors, inches
CG656HY* Hydraulic Set	14 1/8 (358)	2 5/8 - 7 1/2 (67-191)	5/8 - 11 x 13 3/4	5/8 - 11f x 5/8 - 18m	7/16 - 14 x 8	7/16 - 14f x 5/8 - 18m
CG656	CG656HY Set less the hydraulic components					

*Included with hydraulic ram.



CG150HY

10 Ton Capacity (9.1 t), Hydraulic

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm)	Pressure Screw Size, inches	Pressure Screw Adaptor	Side Rods, inches	Side Rod Adaptors, inches
CG150HY* Hydraulic Set	17 5/8 (448)	3 9/16 - 9 3/8 (90-238)	3/4 - 10 x 16 1/4	3/4 - 10f x 5/8 - 18m 3/4 - 10f x 3/4 - 16m	5/8 - 18 x 8, 5/8 - 18 x 12	
CG150	CG656HY Set less the hydraulic components					

*Included with hydraulic ram.

20 Ton Capacity (18.1 t), Hydraulic

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm)	Pressure Screw Size, inches	Pressure Screw Adaptor	Side Rods, inches	Side Rod Adaptors, inches
CG450HYA* Hydraulic Set	24 (610)	6-15 (152-381)	1 1/8 - 8 x 20 1/2		7/8 - 14 x 20, 7/8 - 14 x 10	7/8 - 14f x 7/8 - 14m, 7/8 - 14f x 5/8 - 18m
CG450HYA2S*	CG450HY Set with 2 stage pump					
CG450	CG450HY Set less the hydraulic components					
CG350*	Manually operated version of the CG450					

*Included with hydraulic ram.



CG450HYA

35 Ton Capacity (31.7 t), Hydraulic

Stock No.	Maximum Reach, inches (mm)	Maximum Spread, inches (mm)	Pressure Screw Size, inches	Pressure Screw Adaptor	Side Rods, inches	Side Rod Adaptors, inches
CG750HY* Hydraulic Set	26 (660)	8 1/2 - 17 (216-432)	1 3/8 - 8 x 25	1 3/8 - 8f x 7/8 - 14m	1-14 x 20, 1-14 x 10	1-14f x 7/8 - 14m, 7/8 - 14f x 3/4 - 16m
CG750HY2S	CG750HY Set with 2 stage pump					
CG750	CG750HY Set less the hydraulic components					

*Included with hydraulic ram.



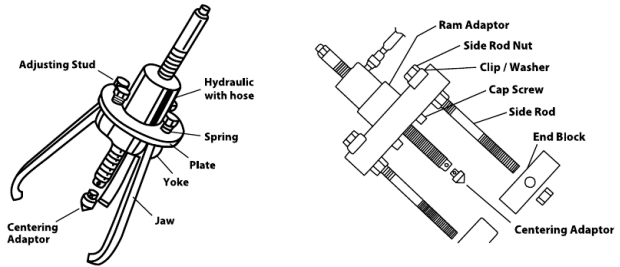
WARNING



- Screen the puller application • Inspect the puller, do not use damaged parts
- Use proper type and size puller for the job • Read safety precautions on pages W1 to W4

PULLERS

Quick Reference Charts



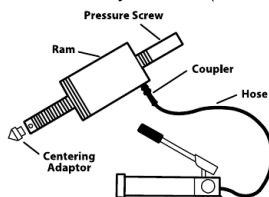
Jaw Style Pullers (Hydraulic and Manual)

Stock No.	Hydraulic Unit	Ram Adaptor	Hydraulic Adaptor	Yoke	Pressure Screw	4" Dia. Plug	Plate	Spring	Adj. Stud	Jaws	Side Arms/ Side Plate	Arm Bolts/ Arm Nuts	Washers/ Cap Screws
CG654HY	CG652	CG250-16		CG250-15	CG650-13		CG250-5	CG250-6		CG250-3 (2)			
CG655HY	CG652	CG250-16		CG253-15	CG650-13		CG250-5	CG250-6		CG250-3 (3)			
CG274HY	CG122	CG270-16		CG270-15	CG120-13		CG270-5	CG270-6		CG270-3 (2)			
CG275HY	CG122	CG270-16		CG273-15	CG120-13		CG273-5	CG270-6		CG270-10 (3) CG270-3 (3)			
CG276HY	CG122	CG270-16	CG270-14	CG270-15	CG120-13		CG270-5	CG270-6 (4)		CG270-12 (2)			
CG277HY	CG122	CG270-16	CG270-14	CG273-15	CG120-13		CG273-5	CG270-6 (4)		CG270-12 (3)			
CG400HYA	CG420A			CG400-2	CG420-1-13A		CG400-5	CG400-6 (4)	CG400-7 (4)	CG300-3 (3)			
CG343				CG400-2	CG300-1	CG343-1	CG400-5	CG400-6 (4)	CG400-7 (4)	CG300-3 (3)			
CG405HYA	CG420A			CG400-2	CG420-1-13A		CG400-5	CG400-6 (4)	CG400-7 (4)	CG305-9 (3)			
CG348				CG400-2	CG305-8	CG343-1	CG400-5	CG400-6 (4)	CG400-7 (4)	CG305-9 (3)			
CG425HYA	CG420A	CG425-9		CG325-2	CG420-1-13A					CG325-3 (3)	CG325-4 (3)	CG325-5 (3)	CG425-8
CG325				CG325-2	CG325-1					CG325-3 (3)	CG325-4 (3)	CG325-5 (3)	
CG560HY	See Hyd. Unit Chart			CG560-2	CG520-13					CG560-3 (3)	CG560-4 (6)	CG560-6 (9) CG560-5 (9)	

Bar Style Pullers (Hydraulic and Manual)

Set Stock No.	Hyd. Unit Ram Adaptor	Yoke	Pressure Screw	Centering Adaptor	Pressure Screw Adaptor	Thrust Nut Thrust Washer	Side Rods (2)	Side Rod Hex Nuts (6)	Clip/Washer	Side Rod Conn. Nuts (2)	End Blocks (2)	Side Rod Adaptors (2)	Cap Screw (2 Each)
CJ84C		CJ84-1B	CJ84-4	CJ84-16			CJ84A2 (10")		ME5A16 (2)				
CG706		CG656-2	CG706-1	CG250-20		CG325-6	CG656-3 (4) (8")	CG656-7	CG656-8 (4)	CG656-6	CG656-6	CG656-12	
						CG706-2							
CG710		CG150-2	CG710-1	CG270-20	CG710-3	CG45-2	CG150-3 (12")				CG150-6		
						CG710-2	CG150-4 (8")						
CG656HY	CG652	CG656-2	*		CG656-13		CG656-3 (8")	CG656-7	CG656-8 (2)	CG656-5	CG656-6	CG656-12	CG656-11
	CG656-9												CG656-10
CG656		CG656-2			CG656-13		CG656-3 (8")	CG656-7	CG656-8 (2)	CG656-5	CG656-6	CG656-12	CG656-11
													CG656-10
CG150HY	CG122	CG150-2	*	*	CG150-12 (9/8")		CG150-3 (12")	CG150-7	CG150-8	CG150-5	CG150-6		CG150-11
	CG150-9				CG150-13 (3/4")		CG150-4 (8")						CG150-10
CG150		CG150-2			CG150-12 (9/8")		CG150-3 (12")	CG150-7	CG150-8	CG150-5	CG150-6		CG150-11
					CG150-13 (3/4")		CG150-4 (8")						CG150-10
CG450HYA	CG420A	CG450-10	*	*			CG350-3 (18")	CG350-7	CG350-8 (2)	CG350-5	CG350-6	CG350-9	CG450-11
	CG425-9						CG350-4 (9")						CG450-12
CG450		CG450-10					CG350-3 (18")	CG350-7	CG350-8 (2)	CG350-5	CG350-6	CG350-9	CG450-11
	CG425-9						CG350-4 (9")						CG450-12
CG350	CG420A	CG350-2	CG350-1				CG350-3 (18")	CG350-7	CG350-8 (2)	CG350-5	CG350-6	CG350-9	CG450-11
	CG425-9						CG350-4 (9")						CG450-12
CG750HY	See Hyd. Unit Chart	CG750-2	*	*	CG750-11 (7/8")		CG750-3 (20")	CG750-7	CG750-8 (2)	CG750-5	CG750-6	CG750-9	CG750-11
					CG750-13 (7/8")		CG750-4 (10")					CG750-10	CG750-12
CG750		CG750-2			CG750-14 (1 1/8")		CG750-3 (20") CG550-3	CG750-7	CG750-8 (2)	CG350-5	CG750-6	CG750-9	CG750-11 CG550-10
	CG720-9	CG550-2					CG750-4 (10")	CG550-7				CG750-10	CG750-12

*Included with hydraulic ram (see chart below).



Hydraulic Power Units

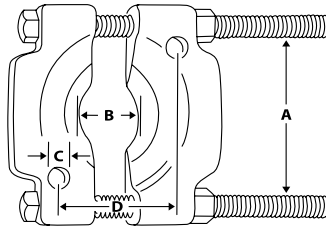
Stock No.	Capacity, tons	Ram	Included with Ram Pressure Screw	Included with Ram Centering Adaptor	Hose	Coupler	Pump	Optional Pressure Gauge	Items* Gauge Adaptor
CG222	4	CG220	CG220-13		CG120-3-1	CG120-4	CG4-2A		
CG652	6	CG650	CG650-13	CG250-20	CG120-3-1	CG120-4	CG4-2A	CG420-5C	CG420-6
CG122	10	CG120	CG120-13	CG270-20	CG120-3-1	CG120-4	CG4-2A	CG420-5C	CG420-6
CG420A	20	CG420-1A	CG420-1-13A	CG420-1-14	CG420-3-1	CG420-4	CG420-2A	CG420-5C	CG420-6

*Standard with CG559 Bar Style Puller Set.

Bearing separators. For separating and pulling double separators. For separating and pulling double bearings and close fitting gears. Use with tapped hole, 2 jaw pullers or floor presses.



CJ952



CJ950

Bearing Separators

Stock No.	A	B	B	C	D
CJ949	1 11/16	1 1/8	1/4	5/16-18	2 5/8
CJ950	2 3/8	2 3/8	3/8	3/8-16	3 3/4
CJ951	4 3/8	4 1/2	5/8	5/8-18	7 1/4
CJ952	5 7/8	6 1/8	1 1/2	5/8-18	9 5/16
CJ953	8 3/8	8 3/4	1 1/4	3/4-16	14 7/16

Bar Type Puller Adaptors

Male Adaptors

Stock No.	Female Thread	Male Thread
CG656-12	7/16-14	5/8-18
CG656-13	5/8-11	5/8-18
CJ84-6	5/8-18	5/16-24
CJ84-15	5/8-18	5/16-18
CJ84-7	5/8-18	3/8-24
CJ84-10	5/8-18	3/8-16
CJ84-8	5/8-18	7/16-20
CJ84-18	5/8-18	7/16-14
CJ84-9	5/8-18	1/2-20
CJ84-11	5/8-18	1/2-13
CJ84-17	5/8-18	5/8-18
CJ84-12	5/8-18	5/8-11
CJ84-13	5/8-18	3/4-16
CJ84-14	5/8-18	3/4-10
CG710-3	3/4-16	5/8-18
CG150-12	3/4-10	5/8-18
CG150-13	3/4-10	3/4-16
CG46-7*	3/4-10	1-14
CG46-8**	3/4-16	1-14
CG750-9	1-14	3/4-16
CG750-10	1-14	7/8-14
CG455-18	1 1/8-8	5/8-18
CG455-19	1 1/8-8	7/8-14
CG47-420	1 1/8-8	1 1/4-12
CG550-9	1 3/8-6	1 3/4-12
CG455-1	7/8-14	5/8-18
CG455-2	7/8-14	5/8-11
CG455-3	7/8-14	3/4-16
CG455-4	7/8-14	7/8-10
CG455-5	7/8-14	7/8-9
CG455-6	7/8-14	1-14
CG455-7	7/8-14	1-8
CG455-8	7/8-14	1 1/8-12

*For attaching CG46 Series Pullers to CG105HY Hydraulic Bar Style Puller.

**For attaching CG46 Series Pullers to CG710 Push/Pull Set.



CG455

CG455 Male Adaptor Set. Includes 2 each of the male adaptors CG455-1 through CG455-8 (16 pcs).

- Male and female adaptors add versatility to the pulling and pushing capabilities of bar style pullers
- Adaptors change the diameter and/or thread pitch of pressure screws and side rods to accommodate item being pushed or pulled
- Unthreaded male ends of bull nose adaptors perform many pushing operations



CG455A

Female Adaptors

Stock No.	Female Thread
CG455-9	7/8-14 and 5/8-18
CG455-10	7/8-14 and 3/4-16
CG455-11	7/8-14 and 1-14
CG455-12	7/8-14 and 1 1/8-8
CG455-13	7/8-14 and 1 1/8-12
CG455-14	7/8-14 and 1 1/4-8
CG455-15	7/8-14 and 1 1/4-12
CG455-17	7/8-14 and 1 1/2-12
CG455-16	7/8-14 and 1 1/2-8

CG455A Female Adaptor Set. Includes 2 each of the female adaptors (18 pcs).



WARNING

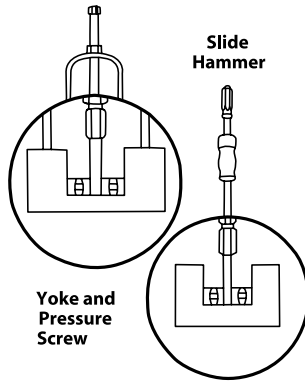


- Screen the puller application • Inspect the puller, do not use damaged parts
- Use proper type and size puller for the job • Read safety precautions on pages W1 to W4

PULLERS

Blind Hole Bearing

These special pullers will pull blind hole bearings, bushings and sleeves with inside diameters ranging from 1/4" to 7" where regular pullers won't reach. The operation is simple. After the special collet is inserted through the bearing or sleeve, a matched expanding rod is threaded into the collet and secured. Pulling can be done through bridge of bar type yokes or with side hammers.



CG40CB

CG40CB Blind Hole Bearing Puller.
Includes 9 collets and yoke. Uses CG250-8A slide screw and CG250-9 slide hammer.

Includes:

- | | |
|---------|---------|
| CG40-1 | CG40-9 |
| CG40-3 | CG40-15 |
| CG41-11 | CG40A6 |
| CG41-14 | CG40A10 |
| CG41-12 | CG40-7 |
| CG41-13 | CG40-8 |
| CG40-4 | CG40-2 |



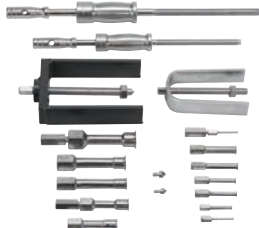
CG45

CG45 (1-1 3/4") Puller Set.

3 collets and yoke. Uses CJ105-4B slide screw and CJ97-3A slide hammer.

Includes:

- | | | |
|----------|---------|--------|
| CG270-1A | CG45-4 | CG45-6 |
| CG45-2 | CG45-15 | CG45-7 |
| CG45-3 | | |



CG2545AB

Accessories

CG40-11 (43/64-53/64") Collet.

For needle bearings on Leece-Neville alternators. Use with CG40-4 expanding rod.

CG40-12 (15 to 18 mm) Collet.

For pilot bearings on late model Ford® transmissions. Use with CG40-4 expanding rod.

CG40-4-1 (4" long) Collet Extension.

For CG40 series collets.

CG46-8 Manual Adaptor.

For attaching CG46 series pullers to CG710 push/pull set.

CG46-7 Hydraulic Adaptor.

For attaching CG46 series pullers to CG105HY hydraulic bar style puller.

CG47-420 Hydraulic Adaptor.

For attaching CG47 series pullers to CG450HYA hydraulic bar style puller.

CG46-3 Expanding Rod.

CG2545AB Blind Hole Bearing Puller.

Includes CG40C and CG45 sets plus slide screw and hammers.

Includes:

- | | | |
|---------|----------|----------|
| CG40-1 | CG40-9 | CG45-2 |
| CG40-2 | CG40-15 | CG270-8A |
| CG40-3 | CG40A6 | CG45-15 |
| CG41-11 | CG40A10 | CG45-3 |
| CG41-14 | CG40-7 | CG45-4 |
| CG41-12 | CG40-8 | CG45-6 |
| CG41-13 | CG250-8A | CG45-7 |
| CG40-4 | CG250-9 | CG66-2 |
| | CG270-1A | |



CG47

CG46 (1 5/8-3") Puller Set.

3 collets, slide screw and hammer. For large size blind hole bearings, Torrington needle bearings, heavy duty bearings on live center lathes, conveyor belts and rollers.

Includes:

- | | | |
|--------|--------|--------|
| CG46-1 | CG46-3 | CG46-5 |
| CG46-2 | CG46-4 | CG46-6 |

CG47 (3-7") Puller Set.

Master collet and pads plus slide screw and hammer. Pulling size is changed by changing pads.

Includes:

- | | | |
|----------|----------|----------|
| CG4567N | CG47-204 | CG47-209 |
| CG4567O | CG47-205 | CG47-210 |
| CG47-201 | CG47-206 | CG47-211 |
| CG47-202 | CG47-207 | CG47-212 |
| CG47-203 | CG47-208 | |

Set Components

Stock No.	Description	Internal Thread Size	External Thread Size
CG40-11	Collet, 43/64-53/64"		
CG40-12	Collet, 15-18 mm		
CG40-4-1	Collet Extension, 4" long		
CG46-8	Manual Adaptor		
CG46-7	Hydraulic Adaptor		
CG47-420	Hydraulic Adaptor		
CG250-8A	Slide Screw, 5/8"-18 x 18 9/16"		
CG250-9	Slide Hammer, 2 lb		
CG40-1	Pressure Screw, 5/8"-18 x 7 3/4"		
CG40-2	Nut, 15/16" Wrench Size		
CG40-3	Yoke, 3 1/4" Spread		
CG41-11	Expanding Rod	5/8"-18	3/8"-24
CG41-14	Collet, 1/4-5/16"		
CG41-12	Collet, 5/16-3/8"		
CG41-13	Collet, 3/8-7/16"		
CG40-4	Expanding Rod	5/8"-18	1/2"-20
CG40-9	Collet, 7/16-1/2"		
CG40-15	Collet, 1/2-5/8"		
CG40A6	Collet, 5/8-3/4"		
CG40-7	Collet, 3/4-7/8"		
CG40-8	Collet, 7/8-1"		
CG40A10	Collet, 1-1 1/8"		
CJ105-4B	Slide Screw, 3/4-16 x 22 1/2"		
CJ97-3A	Slide Hammer, 3 3/4 lb		
CG270-1A	Pressure Screw, 3/4-16 x 9 1/2"		
CG45-2	Nut, 1 1/8" Wrench Size		
CG45-3	Yoke, 5 3/4" Spread		
CG45-4	Expanding Rod for:	3/4"-16	5/8"-18
CG45-15	Collet, 1-1 1/4"		
CG45-6	Collet, 1 1/4-1 1/2"		
CG45-7	Collet, 1 1/2-1 3/4"		
CG46-1	Slide Screw, 1"-14 x 18"		
CG46-2	Slide Hammer, 6 lb		
CG46-3	Expanding Rod	1"-14	1 1/8"-12
CG46-4	Collet, 1 5/8-2"		
CG46-5	Collet, 2-2 1/2"		
CG46-6	Collet, 2 1/2-3"		
CG4567N	Slide Screw, 1 1/4"-12 x 24"		
CG4567O	Slide Hammer, 10 lb		
CG47-201	Expanding Rod for:	1 1/4"-12	1 1/8"-12
CG47-202	Master Collet		
CG47-203	Collet Pad, 3-3 1/2" (3)		
CG47-204	Collet Pad, 3 1/2-4" (3)		
CG47-205	Collet Pad, 4-4 1/2" (3)		
CG47-206	Collet Pad, 3 1/2-5" (3)		
CG47-207	Collet Pad, 5-5 1/2" (3)		
CG47-208	Collet Pad, 5 1/2-6" (3)		
CG47-209	Collet Pad, 6-6 1/2" (3)		
CG47-210	Collet Pad, 6 1/2-7" (3)		
CG47-211	Screw, 3/4" (3 sets of 2)		
CG47-212	Screw, 1 3/4" (3 sets of 2)		

Tools Required for Cummins® B and C Series Service Kits

Stock No.	Description	Applications				Set Contents	
		12 Valve pre 1994	24 Valve 1994 to 1998.5	24 Valve 1999 to 2002	24 Valve 2003	CUMDS12V 12 Valve	CUMDS24V 24 Valve
FB300A	Bent Blade Feeler Gauge	•	•	•	•	•	•
MT33C	Compression Gauge	•	•	•	•	•	•
MB5B	Bronze Injector Brush	•	•	•	•	•	•
MB6BT	Stainless Steel Injector Brush	•	•	•	•	•	•
YA9565A	Engine Turn Over Tool	•	•	•	•	•	•
CJ140-1	Injector Slide Hammer Puller	•	•	•		•	•
CJ141	12 mm Injector Adaptor	•				•	
CJ142	14 mm Injector Adaptor	•				•	
FRHM17	17 mm 6 Point Crowfoot	•				•	
FRXM17	17 mm 6 Point Flare Nut Socket	•				•	
M3584	Compression Adaptor	•				•	
SP144	Injection Pump Wrench	•				•	
SP145	Idle Wrench (10mm)	•				•	
TSM24	24 mm 6 Point Deep Socket	•				•	
FRHM19	19 mm 6 Point Crowfoot		•	•	•		•
FRXM19	19 mm 6 Point Flare Nut Socket		•	•	•		•
EEPV313A	Compression Adaptor		•	•	•		•
CJ143	Adaptor		•	•			•
CJ144	Adaptor		•	•			•
SP504	Gear Puller		•	•			•
CJ148	Fuel Line Plug			•	•		•
CJ149	Adaptor			•	•		•
KRW200A	Storage Case					•	•



CUMDS12V



CUMDS24V



KRW200A

Optional Tools

EEDMTACH1	Digital Tachometer to measure engine RPM	•	•	•	•		
TWM14A	14 mm 1/2" dr Shallow Socket use with V22A to adjust valves	•					
SP346	Fan Wrench (36 mm)	•					

CUMDS12V 12 Valve Diesel Set for Cummins B and C Series.

- Services *Cummins* B and C Series 12 valve engines from pre 1994
- Additional applications include Dodge® Ram 250 and 350 pickups, Ford® pickups with 3.9 L, 5.9 L and 8.3 L diesel engines, J.I. Case® tractors and off road equipment
- 15 tools in storage case

CUMDS24V 24 Valve Diesel Set for Cummins B and C Series.

- Services *Cummins* B and C Series 12 and 24 valve engines 1994 and later
- Additional uses include *Dodge* heavy duty pickups and all applications with ISB and ISC diesel engines
- 14 tools in storage case

Diesel Timing Gauge Set (Blue-Point®)

SP500 Diesel Timing Gauge Set.

- The SP500 diesel gauge set will update existing 2017DSP diesel service sets to handle 1994 to 1998 *Cummins B* engines used in *Dodge* Ram 250/350 pickup trucks and some *Ford* trucks
- Updated 2017DSP set will also service *J.I. Case* tractors and off road equipment



SP500

SP5001 Dial Indicator (Blue-Point).

- Features rack and pinion construction
- Refer to the pump manufacturer's service manual when using this gauge
- Gauge diameter is 2 1/4"
- Range is 30 mm
- Gauge is marked in .01 mm increments



SP503

SP503 Spline Socket (Blue-Point).

- Used to remove and replace the delivery valve on most Bosch® fuel injection pumps
- Wrench size is 34 tooth
- 1/2" drive size



SP504

SP504 Gear Puller (Blue-Point).

- Used to remove the injection pump gear
- Bolt thread is M8 x 1.25
- Bolt length is 44 mm



SP5002

SP5002 Gauge Holder (Blue-Point).

- Used in fuel injection pump in place of the #1 delivery valve to locate the base circle of the injection pump cam
- Male thread is M22 x 1.5



WARNING



• Read safety precautions on pages W1 to W4

Diesel Tools



SP7882

Injector Height Gauges (Blue-Point®)

- Use height gauges to set injectors during installation and at set service intervals
- Knurled handle screws into gauge at 90° angle for work in close quarters

Stock No.	Size	Series	Engine	Year
SP78	78.2 mm	60 60 and 50	DDECI DDECII	1986-1993 1986-1993
SP80	78.8 mm	60 and 50	DDECIII	1994-1997
SP79	80.3 mm	60 60 and 50	DDECIII DDECIV	Late 1997 1997-1998
SP81	81.0 mm	60 and 50 -	DDECIV Marine	1998-1999 2000-2003
SP82	82.1 mm	60	See service manual	

SP7882 Diesel Injector Height Gauge Set.

- 5 in 1 gauge set covers all applications for Detroit Diesel® 50 and 60 series Engines
- Includes SP78, SP79, SP80, SP81 and SP82 injector gauges plus handle in vinyl storage pouch



M3530



M3531

Governor Gap Wrenches

M3530 Governor Gap Adjusting Wrench.

- 3/8" open ends, 4" long
- Special thin design with 30° and 60° angle heads

M3531 Governor Gap Lock Nut Wrench.

Similar to M3530 but has 7/16" open ends and is 4 1/4" long.



FCT706

Fan Clutch Wrench (Blue-Point)

FCT706 Fan Clutch Wrench.

- Fan clutch wrench for heavy duty truck engines
- Hole pattern on tool aligns with fasteners on fan hub
- Use with open end wrench to remove fan clutch. 24 1/2" length for maximum leverage

Applications: International (VT365, T444E, DT466, DT350 and HT530), Ford® Power Stroke (7.6 L and 6.0 L), Detroit Diesel (Series 40) and John Deere® engines.



BDD1

Injector Brush

BDD1 Injector Brush. Stainless steel wire brush is for cleaning carbon buildup in the injector cup.



M3525A



M3503B

Special Application Sockets

M3525A Spanner Socket.

- 1/2" drive, 3 7/32" long
- Includes 1 1/8" internal hex for use on "Fuel Squeezer" series of engines

M3503B Fuel Line Nut Socket.

- 1/2" wrench opening, 6 point, 3/8" drive
- Shaped for access to fuel line nuts. 3 1/4" long
- Additional applications on the head temperature sensor found on Buell® Motorcycles



S6200

S6200 Engine Bearing Cap Bolt Socket. Use to service engine cam bearing cap bolts on both older and newer generation Detroit Diesel engines. Newer generation Detroit Diesel engines use longer cam bolts than earlier generation engines. The S6200 is specially designed to work on both engine generations. 12 mm wrench size. 1/2" drive. 4 3/8" overall length. S6200 is similar to Snap-on® SIMDM120A socket but is longer.



MFIMMD10



MFIMMD10 12 Point Metric Shallow Magnetic Socket.

- For use on Detroit Diesel 60 series, the MFIMMD10 is used on the 3 camshaft gear thrust plate bolts located inside the camshaft gear cover within the front gear case on the engine
- The mechanic has to go through the cover to start the bolts
- If one is dropped, it is very labor intensive and time consuming to retrieve
- Applies to 2002 and later 60 series Detroit Diesel engines with the compact gear case
- PLEASE NOTE: Earlier engines with the tall gear case have 13 mm 6 point bolts
- Please use MFIMM13 for this application

Stock No.	Size, mm	Finish	Style	A	B	D	E
MFIMMD10	10	Industrial Finish	12 point	15.1	17.2	28.6	7.1



FB325A

Feeler Gauges (Blue-Point®)

FB325A U.S./Metric Feeler Gauge Set.

- For adjusting governor gap
- Includes (25) 1/2 x 3" blades in sizes .0015" plus .002 to .025" in .001" increments



FB308D

FB308D Step Feeler Gauge Set and Holder (Blue-Point).

- For adjusting valves
- Includes 12 step blades in sizes .008/.010 to .028/.030"



FB328A

FB328A Step Feeler Gauge Set and Holder.

- For adjusting valves
- Includes 2 step blades: .011/.013 and .013/.015"



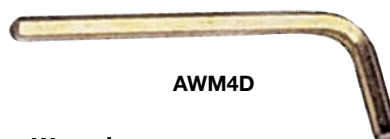
M3518

M3517B

Push Rod Wrenches

M3517B Push Rod Lock Nut Wrench. 1/2" open end, 102 offset handle.

M3518 Push Rod Adjusting Wrench. 5/16" open end, 102 offset handle.



AWM4D

Metric Hex Wrenches

AWM4D Metric L-Shape Hex Wrench. For adjusting governor gap. 4 mm hex.

AWM5D Metric L-Shape Hex Wrench. For adjusting governor gap. 5 mm hex.



YA9340

Belt Tensioning Tool (Blue-Point).

YA9340 Serpentine Belt Wrench.

- Use to release any serpentine belt tensioner with 1/2" square drive opening
- Ratcheting action allows better positioning of the tool, which allows more swing angle than a solid type serpentine belt wrench
- Reversible ratchet head is only 1" thick so it will fit between tensioner face and fan blades on S Series 60 Detroit Diesel® and some Caterpillar® engines
- Also great for working on buses and delivery vans where the doghouse or engine shrouding restrict access
- Compact overall length keeps handle from coming in contact with radiator hoses, charged air cooler pipes, hydraulic lines or frame rails
- Vinyl grip for comfort
- 13" overall length



SRD6

SRD6 Belt Tensioner Release Tool.

- 6" long adaptor with 1/2" male square
- The female triple square drive allows the user more flexibility to work around obstacles by coming in at different angles
- With a 1/2" breaker bar
- Similar to Snap-on® 6" torque adaptors but with a male square
- If using with a torque wrench, please refer to *Snap-on* part # SS306 Torque Chart for formula to obtain the correct applied torque

Heavy Duty Applications:

- For serpentine belt tensioners with a 1/2" square drive opening found on Series 60 *Detroit Diesel* and *Caterpillar* engines
- Other heavy duty applications include buses and delivery vans where the doghouse or engine shrouding can get in the way and make the work area very tight

Automotive Applications:

- 1/2" serpentine belt tensioners on Dodge®/Chrysler® vehicles (2.0 L and 3.0 L engines)
- Ford® vehicles
- Lincoln® and Mercury® vehicles (2.3 L, 3.0 L, 4.2 L and 4.6 L engines)
- M® vehicles (2.5 L, 4.7 L, 5.0 L and 5.7 L engines)



WARNING



- Do not use chrome or industrial finish hand tools with impact driver.
- Read safety precautions on pages W1 to W4

Tools for Ford®/Navistar® Vehicles



Pulley Puller

SP448 Pulley Puller. For removing the air pump pulley. Fits over pulley flange.

Compression Adaptor

M3545B Glow Plug Compression Adaptor.

- For M® 4.3 L and 5.7 L plus Navistar 6.9 L and 7.3 L diesel engines
- Replacement valve core is M3545A4
- Must be used in conjunction with MT33C Compression auge and M3569 or M3570 Quick Couplers

M3545A4 Replacement Valve Core.

Replaces valve core on M3545B.

Sensor Socket for Ford ICP

S6196KR Sensor Socket for Ford ICP.

- Easily remove and install the ICP Sensor on 2002 and 2003 Ford 6.0 L diesel truck engines
- Spring retention securely holds sensor during use
- 6 point configuration with Flank Drive® wrenching system
- Wrench Size: 1 1/16". Drive Size: 3/8"
- O.D.: 1 7/16" (36.2 mm). Length: 2 9/16" (64.8 mm)

M3545B



S6196KR

Diesel Turbo Tools

PSWT10K Power Stroke Diesel Turbo Wrench for Ford.

- 10 mm wrench is ideal for accessing the turbo mounting bolts located between the firewall and the turbo with exhaust intake in the way
- Designed for use on 2003 and later 6 L diesel Powerstroke engines used on Ford F250, F350, E250 and E350
- Additional applications on Navistar VT365 engines and some International 4000 series of medium duty trucks
- Wrench has a zero degree offset 6 point head
- Designed to remove excessively tight fasteners off the intake when removing turbocharger where a conventional 15° offset wrench will not work
- 5 1/2" long

PSWT10K



S6210

S6210 Diesel Turbo Inlet Pipe Socket for Ford Vehicles.

Application: To access bolts holding the turbo inlet pipes to the turbo on 6.4 L diesel engines. There are 6 bolts with restricted access between the turbo and firewall. Removal of the 2 bolts below the E R OC pipe is especially difficult without a 10 mm.



FGPT

Glow Plug Tools

FGPT Glow Plug Harness Tool.

- Prevents damage to harness and connector rail
- Removes and installs glow plug connectors
- Orange color for easy identification in dark engine compartments



SP60

Fan Wrench

SP60 Fan Wrench. 1 7/8" (48 mm) wrench services the cooling fan hub retaining nut. Has a 1/2" drive hole for torquing of the fan nut. 15 3/4" long.



FFW2

Fuel Filter Wrenches (Blue-Point®)

FFW2 Dual Fuel Filter and Oil Filter Cap Socket.

- Dual Purpose 36 mm hex and 6 notches allows the tool to work as both a fuel filter and oil cap socket
- 3/8" drive



MT257B

Diesel Pulse Adaptor

MT257B Diesel Pulse Adaptor.

- Test injector timing or engine RPM on diesel engines equipped with 1/4" or 6 mm external steel fuel injector lines
- Enables use with inductive pick up timing light to test engine timing
- MT257B is not for use on diesels with common rail fuel systems



M3569A



M3570A

Quick Couplers

M3569A Quick Coupler. 45 offset.

M3570A Quick Coupler. 90 offset.

Injector Brushes

MB5B Injector Brush (Blue-Point). Bronze, nonabrasive brush cleans carbon from injector tips.

MB73 Injector Brush (Blue-Point).

Combination 5/16 and 13/16" diameter stainless steel wire brush to clean the injector bore and injector tip hole in the cylinder head.



MB5B



MB73

Automotive Diesel Service Tools

Sensor and Filter Sockets

S3624 Filter Flip Socket.

- One tool will remove/install all 3 filter caps on Ford 6.0 L Power Stroke diesel powered vehicles such as Super Duty Series pickups, Econoline Vans and Excursions
- Use for removal and installation of the Oil Filter cap plus primary and secondary fuel filter caps on these vehicles
- Not for impact use
- Requires optional 3/8" drive extension (FX1 or FXWP1 1-1/2" long)
- See additional applications on pg 506
- Mercedes-Benz® diesel engines

S3624 Specifications

- Square drive size: 3/8"
- Wrench sizes: 24 and 35/36 mm
- Flank Drive wrenching system
- OD Major: 1.80" (45.7 mm)
- OD Minor: 1.38" (34.9 mm)
- Length: 1.73" (43.9 mm)



S3624



A129

A129 Diesel Fuel Filter Socket.

- Use for removing and installing fuel filter housings found on 2002 and later Dodge® Ram trucks with the 24 valve Cummins® diesel engine
- 1 1/8" wrench size. 3/8" drive



SWR3

SWR3 Water Sensor Socket.

- Easily remove/replace water sensor without damage when changing the fuel filter on 2001 to present M® 6.6L DuraMax® diesel engines
- M 6.6 L DuraMax diesel engine applications include 2001 to present Chevy®/ MC® pickups and Chevy/GMC medium duty trucks
- Manufactured from high strength, chemical resistant glass filled nylon. 3/8" square drive
- NOTE: Due to possible sensor distortion from previous incorrect removal/installation methods, the sensor may slip in the SWR3 during removal. Use to reinstall the sensor, when proper hand tightening is used



OFSKIT

OFSKIT Oil/Fuel Filter Socket Set.

- Includes A127 and A106 oil filter sockets, S3624 filter flip socket and A129 Cummins diesel fuel filter socket (4 pcs) in storage tray
- Applications for A127, A106 and S3624 are listed on pg 537. Applications for A129 are listed on this page



YA6180

Fan Clutch Wrench (Blue-Point®)

YA6180 Fan Clutch Wrench.

- Use on M® and Ford® diesel and gas engines with a 48 mm fan clutch nut
- Provides the extra leverage needed to remove the fan clutch nut
- Overall length of 20 1/8"
- Head width of 4 1/8"
- Head thickness of 3/8"



YA6925

Flywheel Lock (Blue-Point)

YA6925 Flywheel Lock for GM Duramax® 6.6 Liter Engines.

- Works on 2001 and later 6.6 L Duramax diesel truck engines
- Saves time by not removing the starter motor
- Holds the engine in place for high torque requirements
- Handle is visible to remind the technician that the engine is locked



S6104B



S6128

Metric Injector Sockets

S6104B Metric Injector Socket.

- For diesel engines in VW® and Mercedes® vehicles
- 27 mm, 12 point.
- Clearance bored to fit over fuel injector
- 1/2" drive. 3 1/4" long

S6128 Metric Injector Socket.

- For Bosch® type injectors on GM 6.2 L 6.5 L diesel engines
- 30 mm, 6 point. 2 1/16" bolt clearance. 7/16" opening depth, 2 11/16" long
- 7/8" external hex on drive end

Service Tools for Cummins® Engines



M1328A

M1321

M1329

Air Compressor/Fuel Pump Wrenches

M1328A Air Compressor/Fuel Pump Wrench. Includes 5/8", 12 point box wrench on one end for servicing fuel pumps and a specially designed 11/16" open end for access to air compressor bolts.

M1321 Air Compressor/Fuel Pump Wrench.

- Similar to M1328A but has a 12 point box wrench on both ends
- Accommodates air compressor and fuel pump flange bolts on NH Series Inline 6 cylinder engines

M1329 Fuel Pump Wrench.

- Includes 7/16", 12 point box end for servicing fuel pump bolts on NH series engines equipped with Cummins air compressors
- 6 5/8" long



CJ125A

CJ140-1

CJ144

Injector Pullers

CJ125A Injector Puller. Slide hammer puller services D, Top Stop, and small V8 injectors. 10 1/2" long.

CJ140 Diesel Injector Puller Set. Use on fuel injectors in Cummins B and C Series 3.9 L, 5.9 L and 8.3 L engines used in Dodge® pickups and Case® tractors/off-road equipment. Will service all 1994 to 1998-1/2 standard injectors as well as fuel inlet tubes.

CJ140-1 Slide Hammer (8 mm). Use to pull injectors from heads on 1998-1/2 to 2002 Dodge/Cummins. 8 mm x 1.25 thread. Use CJ144 Puller to put the fuel inlet tube prior to removing the injector.

CJ141 Diesel Injector Puller Adaptor (12 mm). Use on Cummins diesel injectors prior to 1994.

CJ142 Diesel Injector Puller Adaptor. Use on Cummins diesel injectors from 1994 to 1998-1/2. M14 X 1.5 threads.

CJ143 Diesel Injector Puller (8 mm). Use on 1998-1/2 Cummins diesel injectors in tight access areas.

CJ144 Diesel Injector Puller (15 mm). Use on 1998-1/2 to 2002 Cummins diesel fuel inlet tubes.

Valve Adjusting Wrenches

M1322 Valve Adjusting Wrench.

- 3/4", 12 point box wrench to tighten lock nuts on rocker arms
- Designed to clear the aftercooler
- 14 3/4" long

M1319 Valve Adjusting Wrench.

- 7/8", 12 point box wrench to tighten lock nuts on rocker arms
- Designed to clear the aftercooler
- 12" long



M1322



SP346

Fan Wrench (Blue-Point)

SP346 Fan Wrench.

- 36 mm open end wrench services fan clutch attaching bolts on B Series Cummins engines
- Can also be used on fan clutch bolts on Navistar 6.9 and 7.3 L engines
- Wrench is 15" long and has a blue, vinyl covered handle



SP144



SP145

Injector Pump/Idle Lock Nut Wrench (Blue-Point)

SP144 Injection Pump Wrench.

13 mm, 12 point box wrench is used to service the injection pump mounting bolts found on 5.9 L Cummins engines.

SP145 Idle Lock Nut Wrench.

- 10 mm, 12 point wrench with 90° angle is designed to remove or install mounting bolts on the diesel injection pump
- For Cummins B Series 5.9 L engines

Engine Turning Tool

YA9565A Engine Turning Tool.

- Used to rotate the engine for making valve and injection pump adjustments on Cummins and J.I. Case 3.9, 5.9 and 8.3 L "B" and "C" Series engines
- 3/8" square drive



YA9565A



WARNING



- Do not use chrome or industrial finish sockets with impact driver.
- Read safety precautions on pages W1 to W4

Tools for Cummins® Vehicle Service



Wet Sleeve Pullers

CG80HYA Hydraulic Wet Sleeve Puller.

- Provides hydraulic pressure for removing wet sleeves on *Cummins* diesels, trucks, and heavy construction and farm equipment with a cylinder diameter of 3 to 6"
- Reach of 7 to 12"
- Adjustable bridge fits around studs in block
- Includes a 6 ton hydraulic power pack
- Contains (1) set each of C 80-11 and C 80-22

CG80A Wet Sleeve Puller. Manual version of C 80HYA.

- **CG80-11 Insert (1/4").** For C 80A/C 80HYA Wet Sleeve Pullers.
- **CG80-22 Insert (5/16").** For C 80A/C 80HYA Wet Sleeve Pullers.



Engine Sockets

PPM516A Drain Plug Socket. 1/2" square male end with 1/2" drive. Extra strength to remove drain plugs. 1 7/16" long.

SIML200 6 Point Extra Deep Impact Socket. 5/8" single hex for the stud used for the rocker box on engines equipped with Jacobs® engine brake. 1/2" drive, 5" long.

FTXEL45E Extra Long Torx® Socket Driver. Quickly and easily access intake bolts on *Cummins* N14 diesel engines without removing the air pump. Can also be used on older *Cummins* NH Big Cam 4 diesel engines. 3/8" square drive.



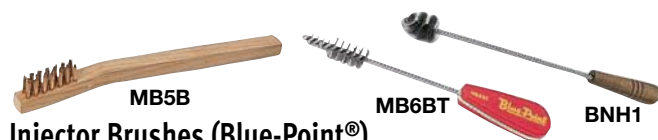
Timing Gauge Injectors

GA3711 Injector Timing Gauge Set.

- Range is 0 to 1" in .001" increments
- Time injectors on *Cummins* NH, NT, L-10, and V-model engines in or out of the chassis
- Set includes 2 dial indicators, mounting hardware, instructions and storage case

GA3707 Injector Adjustment Gauge Set.

- Indicator Range is 0 - 1" in .0005" increments
- Adjust injector travel on NH, NT, L-10 and V model engines except those with Top Stop Injectors
- Do not use this tool for engines with Top Stop Injectors
- Obtain accurate plunger travel and uniform fuel delivery for top performance and maximum fuel economy
- Comes in fitted storage case
- Always refer to the appropriate shop manual and follow the recommended procedures when using this tool



Injector Brushes (Blue-Point®)

MB5B Injector Brush. Bronze, non abrasive brush cleans carbon from injector tips.

MB6BT Injector Brush. Stainless steel wire brush cleans the injector cavity in the cylinder head. For *Cummins* B series engines and J.I. Case® equipment. 9" long.

BNH1 Injector Brush. For *Cummins* NH series engines.



Pulley Installers and Pullers

CJ83C Pulley and Gear Puller.

- Ideal for servicing crankshaft pulleys and gears and timing gears on a wide range of gasoline and diesel engines including *Cummins* accessory drives and water pumps
- Nominal capacity is 3.5 ton
- Use to remove accessory drive pulley (replace with M1324)
- Includes yoke; 2 each 3/8-16 x 3", 5/16-18 x 2 1/2", and M10-1.5 x 65 mm studs; and 3/4-16 x 5" pressure screw

M1324 Pulley Installer. For installing the accessory drive pulley on the shaft. Includes 7/8"-14 NC threaded adaptor, washer type bearing, and installer housing.



Torque Adaptor Set

ST669 Torque Adaptor Set. Use to loosen and adjust lock nuts to manufacturing specifications.

ST669-1 Handle Assembly. Handle assembly.

M1302B18 12 point Deep Socket. 9/16" deep, 12 point socket.

M1302B24 12 point Deep Socket. 3/4" deep, 12 point socket.

M1302A5 Screwdriver. 1/2" x .062 screwdriver.

TM82 Flat Tip Socket Driver. 1/4" x .036 flat tip driver.



Compression Adaptors

These compression adaptors are for use with the MT33C compression gauge on page 421.

M3540A Compression Adaptor. For *Cummins* 855 cu. in. NH and 903 V8 and L10 diesel engines.

M3584 Compression Adaptor. For *Case/Cummins* series B 2.9 L, 3.9 L and 5.9 L diesel engines.

M3585 Compression Adaptor. For *Case/Cummins* series C 8.3 L engines.



Fuel Line Tools

CJ148 Fuel Line Plug. For plugging fuel lines.

CJ149 Fuel Tube Remover. For fuel inlet tubes on later model vehicles.

YA6615 Flare Nut Wrench (Blue-Point).

- Use on Dodge® trucks with 5.9 L engines (2003 and later) and 6.7 L engines (2007 and later)
- Easily slides into the confined area of the cylinder head
- Wrench is required to hold the 24 mm flare nut while the 19 mm fuel line coupler is loosened
- Helps prevent costly damage to the fuel lines

Hand Sockets



S6160

S6194

S6190

S6260

SHR20

Hand Sockets

S6160 Extra Long Head Bolt Socket.

- Use on 1986 and later Nissan® engines with 12 mm head bolts
- 8" length reaches past cam and rocker assembly to service head bolts
- Thin profile socket and shank will reach through access hole and past overhead camshaft
- Additional high torque applications include removal and installation of universal joint flange bolts on Ford®/Mercury® cars such as Mustang, Crown Victoria, and Lincoln® plus Ford Explorer, Ranger and F150/F250 trucks
- 12 point, industrial finish, ½" sq drive

S6194 Head Bolt Socket.

- Use on Toyota® and Nissan cars and trucks and Honda® cars with 12 mm head bolts
- 4 1/8" length reaches past cam and rocker assembly to service head bolts
- Thin profile socket and shank reach through the access hole and past overhead camshaft
- Additional high torque applications include removal and installation of universal joint flange bolts on Ford Explorer, Ranger and F150/F250 trucks
- 12 point, industrial finish, ½" sq drive

S6190 IPR Sensor Socket for Ford vehicles.

- Ford 6.0 L diesel injection pressure regulator (IPR) socket
- Use on 1994 and later Ford 6.0 L diesel trucks plus International® CT365, 530E and 466F
- Similar to Rotunda® part number 303-1112

S6260 Heavy Duty Spicer Drive Socket.

- For removal of heavy duty spicer drive shaft bolts that have ½" fasteners found on Kenworth®, Peterbilt® trucks and many other heavy duty applications
- 8" long, 12 point, industrial finish, ½" sq drive

SHR20 Oil Galley Drain Plug Socket

- For removing and installing oil galley drain plug on Caterpillar® 6 cylinder engines
- alley plugs may leak and need to be removed so a new O-ring can be installed
- Low profile design to get into tight applications
- Special alloy steel provides corrosion resistance
- 5/8" Hex Socket, 6 point, 1 ¼" long

Impact Sockets



S6197

S6199

S6217

S6216

IMFDL242

SIMDM212

DW402C

SIML302

S6230

IPRD20

S6220

Impact Sockets

S6197 Heavy Duty Driveline Socket.

- Use on Kenworth/Peterbilt heavy duty drivelines that use 1/2" fasteners
- Many other heavy duty 1/2" applications as well
- Example: Socket will clear the weld yoke, when removing the cap screws holding the wing bushings to the end yoke. 1/2" wrench size, 12 point, 1/2" drive, 4 1/8" long

S6199 U-bolt Impact Socket.

- Most semi trucks use many 5/8" diameter U-bolts for springs and other suspension components
- Saves you time as you do not need to cut off the excess thread compared to using a standard 1 1/8" deep socket that is 3/4" drive
- Up to 2" longer than a standard deep socket to easily accommodate the excess thread length
- 1 1/8" wrench size, 6 point, 3/4" drive, 5" long

S6217 Head Bolt Impact Socket.

- For head bolts on heavy duty trucks and buses with Mercedes® engine MBE900
- Clearance on certain Detroit Diesel® head bolts with the Mercedes engine MBE900 require a thin walled socket
- Height of socket helps the technician when using a torque wrench due to the length of torque wrench handle for clearance
- 17 mm, 3/4" drive, 12 point, 4 3/4" long

S6216 for Detroit Diesel Engines Head Bolt Impact Socket.

- For head bolts on Detroit Diesel 50 and 60 Series engines
- Tight clearances between some head bolts and the cylinder head casting require a thin walled socket; these engines are found in truck, bus, motor home, marine and heavy equipment
- The increased height of the socket allows for clearance between the drive tool (ratchet, breaker bar or torque wrench) and installed valve train components, allowing technicians access to head bolts from either side of the engine
- 16 mm, 3/4" drive, 12 point, 4" long

IMFDL242 Deep Thin Wall Impact Socket.

- Designed to remove the head bolts on Caterpillar C12, C15, C16 and 3406Es where the front 2 and back 2 head bolts are positioned under the valve covers
- Clearance on certain Caterpillar head bolts requires a thin walled socket that needs to be a certain length
- Additional applications include Detroit Diesel main bearing cap bolts and 19 mm head bolts on Mercedes Benz MBE904/MBE906 E R engines (2007 and later)
- 3/4" wrench size, 3/4" drive, 5 3/4" long

SIMDM212 12 Point Metric Deep Impact Socket.

Applications: Use on flywheel bolts on Cummins ISX engines.

DW402C Dayton Lug Nut Impact Socket.

- 3/4" square drive with a 1 1/4", 6 point wrench opening
- Use with socket retainers

SIML302 6 Point Impact Socket - 5 5/8" long.

- Head bolts are sunk in pretty deep and the current method is a large impact socket with an extension to reach the application
- In this scenario, you lose too much power with an extension and 3/4" impact gun for the torque required on this application

S6230 Impact Socket, 15/16" - 6" long.

- Designed for Autocar® and CCC® style dump trucks and garbage trucks that use the 30/36 spring brake chamber made by M M® brakes
- When doing an emergency repair on the road or changing the diaphragm
- Length of the S6230 is designed to accommodate the very long threaded spring brake release stud assembly (release tool) in the brake chamber

IPRD20 Low Profile Swivel Impact Socket, 5/8".

- Use on starter bolts on Cummins, Caterpillar and International engines where housing is in the way when backing out the fastener using a standard length impact socket. Detroit Diesel series 60 starter bolts
- 30° uninterrupted swivel action, means greater accessibility in tight quarters, which allows easier and faster removal of stubborn fasteners thus saving time

S6220 C15 Impact Socket for Caterpillar Engines.

- Use on Caterpillar C15 engine rocker stud bolts where the length of socket and broach depth of the socket are critical for the application
- 11/16", 6 point, 1/2" drive configuration, 3 1/4" long



WARNING



- Do not use chrome or industrial hand finish sockets with impact driver.
- Read safety precautions on pages W1 to W4



HEAVY DUTY TRUCK TOOLS/MOTORCYCLE

Hose Clamp Sockets



204FIHC

Set
Contains:
204FIHC

Drive Size, inches	Stock No.	  mm	A	B	C	D	
3/8	FIHC140	7/16	21/32	11/16	2 1/4	2 3/4	•
3/8	FIHC160	1/2	3/4	3/4		2 3/4	•
3/8	FIHCM8	8 mm	12.9	17.2	57.1	69.8	•
3/8	FIHCM10	10 mm	15.9	17.2	57.1	69.8	•

Set shown includes storage tray

Torque Adaptors



SRDM624

SRDM624 Torque Adaptor.

- Services the rear brake caliper mounting bracket assembly on 2007 Ford® F450/550 trucks
 - Tool fits between the bracket bolt and frame to allow the use of a torque wrench to properly torque the bracket bolts
 - 24 mm, 6" long, 12 point wrench design, 1/2" square drive
- ### SRD35 Diesel Head Bolt Torque Adaptor.
- Special tool for use on Ford F250/F350 Trucks and Excursion vehicles (2003-2007) plus Ford E-Series Vans (2004-2009) including ambulance, law enforcement and shuttle bus conversions using the 6.0 L Power Stroke® diesel engine
 - When coupled with an SM18, 18 mm socket, the SRD35 can access all of the head bolts eliminating the need to change tools or remove the adaptor during the job



SRD35

- Use of 3/4" drive ratchet/torque wrench transmits the high torque necessary to loosen and tighten head bolts, with less strain on the technician
- Eliminates the need to remove the truck/van cab from the chassis to access the rear head bolts, saving time and preventing damage to the rear heat shield
- Eliminates the need to remove the evaporator housing, saving 2 hours of time and the additional cost of refrigerant added during air conditioning recharging
- Center to center length: 3 1/2"
- Overall length of 4 7/8"

Slack and Valve Adjusters



BSA916



HSA716

BSA916 Slack Adjuster Wrench.

- For brake service and slack adjuster installation on heavy duty trucks equipped with Bendix® automatic slack adjusters
- Use to turn the manual adjuster hex
- Extra deep 9/16" hex allows reach to recessed adjusters
- 14 1/2" overall length helps to overcome the anti reverse mechanism
- Turn over to reverse
- Includes protective vinyl boot

HSA716 Slack Adjuster Wrench.

- For brake service and slack adjuster installation on heavy duty trucks equipped with Haldex® automatic slack adjusters
- Use to turn the manual adjuster hex
- Extra deep 7/16" hex allows reach to recessed adjusters
- 14 5/8" overall length helps to overcome the anti reverse mechanism
- Turn over to reverse
- Includes protective vinyl boot



S6205

S6206

S6205 Valve Adjuster Socket.

- See through window in its 14 mm socket to see the position of the 5 mm hex blade
- Faster valve adjustment time
- Sized for low clearance
- Soft grip handle

Applications: 2002 and later Mercedes® "900" series diesel engines. 2002 and later trucks and busses.

S6206 Valve Adjuster Socket.

- See through window in its 17 mm socket to see the position of the 6 mm hex blade
- Faster valve adjustment time
- Sized for low clearance
- Soft grip handle

Applications: 2002 and later Mercedes® "4000" series diesel engines. 2002 and later trucks and busses.

Motorcycle Tools



TSP813

Tire Spreader

TSP813 Motorcycle Tire Spreader.

- Permits 1 person installation of tubed tires on motorcycles, ATVs, small farm equipment and industrial equipment
- Easily access valve stem hole when installing difficult 90° valve stems on tubed tires
- Overall length is 23"



KAC1224TCA

Fuel Tank Cover

KAC1224TCA Motorcycle Gas Tank Cover.

- Fits Harley-Davidson® Dyna, Softail and Touring models
- Fits various models of Yamaha®, Victory®, Triumph® and Kawasaki® motorcycles plus many more
- Nonmarring cover uses a nonabrasive inner liner that won't slide off

Hand Sockets

HXD22 Motorcycle Wheel Socket.

- Essential for removing motorcycle front wheels
- Use torque wrench for axle torque specs
- Use breaker bar to remove difficult fasteners
- Applications: 2002 and later Kawasaki® motorcycles (ZX7R, ZRX1200, ZX12R, and ZS6); 2002 and later Honda® motorcycle (CBR954RR); 2002 and later Triumph® motorcycle (955i)

HXD24 Motorcycle Wheel Socket.

- Essential for removing motorcycle front wheels
- Use torque wrench for axle torque specs
- Use breaker bar to remove difficult fasteners
- Applications: Suzuki® motorcycles (1300 SXR and 1000 SXR); Hayabusa® motorcycles (various models)

Stock No.	Drive Size, inches	External Hex, (mm)	Outer Dia., inches (mm)	Hex Depth, inches (mm)	Length, inches (mm)
HXD22	1/2	22	15/16 (23.8)	11/16 (17.8)	1 1/2 (38.1)
HXD24	1/2	24	1 1/32 (26.2)	11/16 (17.8)	1 1/2 (38.1)

S9724RHS Low Profile Spark Plug Socket.

- Easily reaches 5/8" (16 mm) spark plugs on muscle cars, ATVs, motorcycles and boats without interference from custom exhausts or chassis
- Spark plug extends through the socket for access in tight quarters
- Patented tapered hex design retains spark plug securely without rubber insert or magnet
- Spark plug easily disengaged from socket by applying side pressure
- Use ratcheting box wrench on 5/8" external hex drive
- Length 1 1/16"

Applications: Harley-Davidson® motorcycles with large gas tanks (1986 and later Sportster® and 1999 and later twin cam models) plus small block Chevy®, Ford®, Mopar® and other engines with 5/8" (16 mm) spark plugs and racing exhaust headers

Adjusting Tools

HD6529 Ratcheting Hex Wrench.

- Reversible ratchet lever conveniently located for one hand operation
- 3/16" hex bit is easily replaced if damaged
- Low profile design for extra clearance between frame and engine
- Comfortable rubber grip will not scratch chrome
- 9 3/4" overall length for additional reach
- 1/4" hex drive, 3/16" hex bit for Harley-Davidson Evolution® motor rocker box cover bolts

NBATI Neck Bearing Adjustment Tool.

- For neck bearing adjustment on Harley-Davidson motorcycles
- Easily maneuvers between the triple clamp and frame
- Fits into the star adjustment nut, allowing technician to adjust the neck bearing play
- Tapered end allows easy access to the neck bearing adjusting star
- Screwdriver style handle offers a comfortable grip
- 18 1/2" overall length
- Neck bearing adjustment is usually checked at the following service intervals: 1,000, 5,000, 15,000 and 25,000 miles or annually

HFTLRT Fuel Tank Lock Ring Tool (Harley-Davidson).

- Remove/install the lock ring on 2008 and later FL touring series
- Allows access to the fuel filter and pump as the lock ring is connected to the pump

General Service Tools

Stock No.	Description	See Catalog Page
CPT110A	Motorcycle Wheel Socket	506
A15A	Drag Link Socket	40
GF22	Drag Link Socket	31
YA243A	Dial Type Pressure Gauge	487
YA173A	Clip On Style Angled Air Chuck	488
VT1A	Valve Stem Inserter	489
GA599A	Tread Depth Gauge	489
SGSR104	Seal Remover Set	160
MT125A	Self Powered Timing Light	446
TA358	Torque Angle Gauge - 3/8" Drive	253
AWHD8K	Hex/Torx® Folding Wrench Set	130

Motorcycle Service Tools



HXD22

HXD24

S9724RHS

S9704RHS

SAM12LE

S9704RHS Low Profile Spark Plug Socket.

- Reaches 13/16" spark plugs on muscle cars, ATVs, motorcycles, RVs and boats without interference from custom exhausts or chassis
- Extends through the socket for access in tight quarters
- Patented tapered hex design retains spark plug securely without rubber insert or magnet
- Easily disengaged from socket by applying side pressure
- Use with open end or ratcheting box wrench on 13/16" external hex drive; Length 1 1/4"

SAM12LE Long Hex Socket Driver.

- Essential for removal or installation of bolt found on the lower forks of 2006 and newer Harley-Davidson Dyna series motorcycles
- Used when servicing the internal parts of the fork, 12 mm
- 98 mm long



HD6529

NBATI

HFTLRT



OFHD

OFHARLEY

OFHD Motorcycle Oil Filler for Harley-Davidson.

- Allows access to the fuel filter and pump as the lock ring is connected to the pump
- Competitive products are metal and can scratch the painted surface of the motorcycle
- Oil filler for 1999-2006 Harley-Davidson Touring Motorcycles with the "Push in Style" oil caps
- Prevents any unwanted mess; fastens and seals onto filler neck
- No need to hold funnel while pouring in oil
- Can fill funnel with almost 1 quart of oil and work on something else
- ABS plastic
- Smooth surface will not scratch painted surface

OFHARLEY Motorcycle Oil Filler for Harley-Davidson.

- Prevents any unwanted mess; fastens and seals onto filler neck
- No need to hold funnel while pouring in oil
- Can fill funnel with almost 1 quart of oil and work on something else
- ABS plastic
- Smooth surface so not to scratch painted surface
- For Harley-Davidson Touring bikes and Dyna series motorcycles 2007 to present

Motorcycle Service Equipment

Stock No.	Description	See Catalog Page
MTPV100	Motorcycle/ATV Peak Voltage Meter	244
EEPV503	Motorcycle Compression Gauge Set	450
EEPV5G10L	Motorcycle Compression Gauge Adaptor	450
EEWB308D	Motorcycle Wheel Balancer	485
EEWH310B	Motorcycle Tire Changer	485
YA1715	Motorcycle Jack	509



WARNING



- Do not use chrome or industrial finish sockets with impact drivers.
- Read safety precautions on pages W1 to W4

Motorcycle Service Tools



CYCLESET

Service Sets

CYCLESET Motorcycle Tool Set.

- 33 pc kit services most U.S. manufactured motorcycles
- From battery service, cable and clutch adjustments, to gas tank and seat removal, this set covers roadside maintenance and emergency repairs
- Conveniently organized and stored in a gas tank shape bag measuring 10" L, 5 1/2" W, and 2 1/4" H and is small enough to fit almost anywhere
- Visit www.snapon.com for the full list of set components and applications

Motorcycle Special Application



MTPV1000

MTPV1000 Peak Voltage Tester (Blue-Point®).

Optional Accessories

- 0 - 400 AC/DC A clamp-on probe (EETA501C)
- 0 - 1,000 AC/DC A clamp-on probe (EETA502C)
- Boot Hook Hanger (EEDM503B1)
- K-type temperature adaptor (EEDM506B)
- Heavy duty surface probe for EEDM506B (EETH502B)
- Heavy duty gas probe for EEDM506B (EETH503B)

Applications

- Peak voltage measurement of secondary ignition systems on all types of vehicles and pleasure craft
- CDI ignition diagnosis on motorcycles, ATVs and snowmobiles
- Digital multimeter functions to measure battery, sensor and circuit voltage
- Check continuity of wiring and resistance of ignition wires

Features

- Tester automatically selects the best range for taking a measurement on V DC, V AC and ohms
- Use AC/DC voltage ranges to check ignition coil primary, ignition pulse generator, exciter coil and battery
- Add adapters to measure temperature, rpm, pressure and amps
- Measure ohms to determine resistance of a coil or spark plug
- Use the continuity buzzer for finding breaks or shorts in wires
- Large, easy to read, 4,000 count LCD and bar graph to easily view rapidly changing input signals
- Lock readings on display with data hold
- View + or - spark readings with the push of a button
- Measure peak voltage of ignition coil and secondary spark
- Input connector for kV probe
- Auto power off to conserve battery power when not in use
- Includes test instrument, test lead set with alligator clips, protective rubber boot, kV probe, soft carrying case, 9 V battery and instruction manual

Aviation Specialty Service Tools



NYZ701810



NYZ701410



NYZ700510



NYZ700110



NYZ701110



NYZ701210



NYZ7010FSB



NYZ7000MDKIT



NYZ7007HD

Complete Kits

NYZ7000MDKIT Master Mastic Removal Kit.

- Saves most of the time and labor involved to remove PRC and other mastics from every area of an aircraft without damage to the substrate
- Speed controllable vibration gun permits infinitely variable job performance
- Included pneumatic blade sharpener rapidly puts an edge on all NYROC blades up to 1" width right at the job site
- Completely portable system is fully grounded and antistatic
- Kit includes medium duty Vibro gun, pneumatic blade sharpener, (1) antistatic vacuum bag, (1) sharpening disc, (1) manual handle, (2) 1" NYROC blades, (2) 1/2" NYROC blades, (2) 1/4" NYROC blades, blade locks and connecting hoses in padded storage case

NYZ7007HD Manual Mastic Removal Kit.

- Hand kit is ideal for aviation, automotive and industrial use especially for delicate jobs and limited access scraping applications
- NYROC blades are sharpened with sandpaper, small stone or optional pneumatic sharpener
- Kit includes (6) 1" NYROC blades, (6) 1/2" NYROC blades, (3) 1/4" NYROC blades and ergonomic rubber handle

NYROC® Blades

Blade Size, inches	Description	Pack of 10	Pack of 200
1/8 wide	General Use	NYZ701810	NYZ7018200
1/4 wide	General Use	NYZ701410	NYZ7014200
1/2 wide	General Use	NYZ700510	NYZ7005200
3/4 wide	General Use	NYZ703410	NYZ7034200
1 wide	General Use	NYZ700110	NYZ7001200
1 wide	Button Head Rivet	NYZ701110	NYZ7011200
1 1/2 wide	Highlock for 3/8 high locks	NYZ701210	NYZ7012200

Blades available in 10 pack and 200 pack quantities only.

NYZ7010FSB Flexible Steel Blade. Use with NYZ7026EH Rubber Handle.



NYZ7000S

Blade Sharpener NYZ7000S Pneumatic Blade Sharpener.

- Pneumatic powered sharpener quickly sharpens all NYROC® blades up to 1" W
- Consistently sharpens blades to the optimal 51° angle
- Operates with single push button
- Connects directly to shop air
- Removed material is collected in disposable antistatic vacuum bag attached directly to the discharge chute



NYZ7026EH



NYZ7006MG



NYZ7025H50

Accessories

NYZ7004VB AntiStatic Vacuum Bags.

- Antistatic vacuum bags for NYZ7000S blade sharpener
- Pack of 10

NYZ700AD Abrasive Sharpening Discs.

- Abrasive sharpening discs for NYZ7000S blade sharpener
- Pack of 10

NYZ7026EH NYROC Blade Holder.

- Vulcanized rubber padded blade holder, works exclusively with NYROC blades
- Fits comfortably in the users hand, reduces operator fatigue and helps to prevent injury

Guns and Hoses

NYZ7025H50 Air Hose (AntiStatic).

- NONSTAT® antistatic 1/4" hose is fully grounded to prevent static discharge
- Hose is ideal for environments and projects where static control is essential
- 50' long

NYZ7024H100 Air Hose (AntiStatic).

- Same as NYZ7025H50 except 100' long

NYZ7006MG Vibro Gun Kit.

- Kit includes medium duty Vibro gun, 1", 1/2" and 1/4" NYROC blades (1 ea.) plus blade locks in black kit bag
- Medium duty Vibro gun adds pneumatic power to all scraping jobs using standard NYROC blades



AVPW716



AFPW38

Aircraft Vacuum/Fuel Pump Wrenches

AVPW716 Aircraft Vacuum Pump Wrench.

- Removes and replaces vacuum pump flange nuts on aviation and experimental aircraft
- Use with any 1/4" drive extension
- Easily fits into tight areas between the pump and nearby accessories
- Cut down head design adds greater flexibility than a wrench with a bent shank

Applications Include: Cessna®: Skyhawk, Skylane, Stationair Piper®: Cub, Warrior, Archer, Seminole, Aztec, Navaho, Chieftain Mooney®: M20 series, M200 series, Ovation, Acclaim Beechcraft®: Bonanza, Duchess, Baron Cirrus®: SR20 and SR22 aircraft

AFPW38 Aircraft Fuel Pump Wrench.

- Small crowfoot which will remove and install the fuel primer/injector line on Continental® and Lycoming® engines
- Can be used with a 1/4" drive extension and will easily fit into tight areas



AOFW2

Aircraft Oil Filter Wrench

AOFW2 Aviation Oil Filter Wrench.

- Oil filter wrench can be used for installing and removing oil filters on all standard general aviation aircraft with 1" hex oil filters
- Compact size allows for reach in restricted areas
- 3/8" drive torque wrench
- Please refer to Snap-on® SS306 Torque Chart for formula to obtain the correct applied torque

Safety Wiring (Blue-Point®)



PR311

RWTP6

WTR1A

GA311C

WTRW6A

Wire Twister/Cutters

Stock No.	Description/Features	Wire Capacity, inches	Overall Length, inches	Wire Retainer
RWTP6	Reversible Wire Twister/Cutters	.020 to .041	8 1/2	No
RWTP9	Reversible Wire Twister/Cutters	.020 to .051	10 1/2	No
GA311C	Wide range of applications.	.060	10 1/2	No
PR311	Similar to GA311C, but not spring loaded. Right hand only with manual return.	.060	10 1/2	No
WT11B	Small size for use in tight quarters.	.041	8 1/2	No
WTR1A	Reversible wire twisters let you perform right and left hand twist with the same tool. Spring return and control knob.	.041	8 3/4	No
WTRW6A	Reversible wire twister lets you perform right and left hand twist with the same tool. Spring return and control knob. Oval cushioned throat captures and holds wire firmly.	.041	6	Yes



Wire Twisters

Cushion throat wire twisters feature a polyurethane filler that is bonded into the tool's cutter head to help prevent flying wire bits. A special undercut design helps maintain cutting edges and increases tool durability. Ideal for assembly line applications.



WT105-2004



WT105-2516

Safety Wire

Stock No.	Wire Size, inches	Container
WT105-2004	.020	1/4 lb Spool
WT105-3204	.032	1/4 lb Spool
WT105-4204	.041	1/4 lb Spool
WT105-2016	.020	1 lb Canister
WT105-2516	.025	1 lb Canister
WT105-3216	.032	1 lb Canister
WT105-4116	.041	1 lb Canister
WT105-5116	.051	1 lb Canister



WARNING



• Read safety precautions on pages W1 to W4

TORQUE

Known for Getting the Job Done Right the First Time.

Your reputation depends on your ability to deliver precise results. Snap-on offers the largest selection of torque tools available, providing the accuracy you need to turn more fasteners and tighten them to spec.

Torque in Less Time.

TechAngle® Electronic Torque Wrench — Performs the job of multiple torque wrenches and an angle gauge to complete precise “torque to yield” specifications. Angle calculation is based on the same gyroscope technology that keeps helicopters flying level.

Techwrench® Electronic Torque Wrench — Revolutionized the industry. Electronic easy-to-use push button tool that precisely measures torque applied to the fastener. Measures ft. lbs., in. lbs. and Nm.

Click-type torque wrenches — Provide consistently accurate readings and rugged, trouble-free performance.



Techwrench® Torque Wrenches

TechAngle® torque wrenches are truly revolutionary. They do the job of multiple torque wrenches and an angle gauge to complete precise torque plus turn specifications at a fraction of the cost. Even better, it saves you some serious time on every head bolt or connecting rod nut. www.torqueinlesstime.com

TechAngle

Eliminates the need for angle gauges and protractors, providing the most accurate and fastest way to achieve torque plus angle tightening sequences now specified by many manufacturers.

- Digital readout shows torque setting then changes to the follow up angle
- Not affected by ratcheting
- Angle calculation based on the same gyroscope technology that keeps helicopters flying level
- Torque accuracy: 2% CW, 3% CCW from 20 to 100% F.S. 4% CW, 6% CCW from 10 to 19% F.S. 8% CW, 10% CCW from 5 to 9% F.S.
- Angle accuracy ±1% of reading ±1°@ angular velocity >10°/sec <180°/sec.
- Display resolution 1°
- More information at www.snapon.com/torque/techangle and www.torqueinlesstime.com
- Dual 80 technology on all 72 and 80 tooth



ATECH2FR100A

TechAngle Models/2% Accuracy

Specifications	ATECH1FR240	ATECH2FR100A	ATECH3FR250A	ATECH4R600
Square Drive, inches	1/4	3/8	1/2	3/4
Head Type	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Fixed Head*
Gear Teeth	72	80	80	32
Gear Action	5°	4.5°	4.5°	11°
Range, in lb	24-240	60-1,200	150-3,000	720-7200
Range, ft lb	2-20	5-100	12.5-250	60-600
Range, N•m	6.7-27.2	13.5-135.0	17.5-340	81-813
Angle Range	5-360°	5-360°	5-360°	5-360°
Head Depth, inches	7/16	5/8	3/4	1 1/4
Head Width, inches	7/8	1 5/32	1 5/8	2 1/2
Operating Temperature	40-110 °F (5-42 °C)	40-110°F (5-42 °C)	40-110 °F (5-42 °C)	40-110 °F (5-42 °C)
Storage Temperature	0-122 °F (-20-50 °C)	0-122 °F (-20-50 °C)	0-122 °F (-20-50 °C)	0-122 °F (-20-50 °C)
Humidity	up to 90% noncondensing	up to 90% noncondensing	up to 90% noncondensing	up to 90% noncondensing
Housing Color	Grey	Grey	Grey	Black
Length, inches	15	17	26	49
Ratchet Service Kit	RKRT72	RKRF80	RKRS80	RKRQC4

*Includes protective boot.

CE

Standard Models/2% Accuracy

Specifications	TECH1FR240	TECH2FR100	TECH3FR250	TECH4R600
Square Drive, inches	1/4	3/8	1/2	3/4
Head Type	Sealed Flex Head	Sealed Flex Head	Sealed Flex Head	Sealed Fixed Ratchet
Gear Teeth	72	80	80	32
Gear Action	5°	4.5°	4.5°	11°
Range, in lb	24-240	60-1,200	300-3,000	720-7,200
Range, ft lb	2-20	5-100	25-250	60-600
Range, N•m	2.7-27.12	6.7-135	34-339	81-813
Head Depth, inches	7/16	5/8	3/4	1 1/4
Head Width, inches	7/8	1 5/32	1 5/8	2 1/2
Housing Color	Red	Grey	Red	Red
Length, inches	15 1/4	17 1/4	26 1/4	48
Ratchet Service Kit	RKRT72	RKRF80	RKRS80	RKRQC4

CE

Techwrench (all models)

- Manual preset and automatic track and peak hold modes
- Torque units conversion: N•m, ft lb, in lb
- Audible (tone) and tactile (vibrating handle) preset alerts
- Display resolution: 0.1 ft lb, 0.1 N•m, 1 in lb
- Each button has only one function (power on, preset increase, preset decrease, unit of measure select)
- Comfortable, nonslip grip
- Stand on handle bottom keeps tool from rolling off flat surface
- Sealed flex head ratchets move ±15°
- 3 "AA" lithium cells included
- Low battery indicator and auto shut off (after 2 minutes idle)
- Operating temperature 40-110 °F (5-42 °C)
- Storage temperature 0-122 °F (-20-50 °C)
- Humidity up to 90% noncondensing
- Designed to withstand shocks without failure
- Splash proof, protects against water and most automotive shop fluid
- ISO-6789-2003 and ASME® B107.300 standards compliant
- Certificate of N.I.S.T. traceability for 20% to 100% of full scale
- Includes storage case
- More information at www.snapon.com/torque/techwrench
- Dual 80 technology on all 72 and 80 tooth



TECH2R100

Standard Models/2% Accuracy/Fixed Head

Specifications	TECH1R240	TECH2R100	TECH3R250
Square Drive, inches	1/4	3/8	1/2
Head Type	Sealed Fixed Ratchet	Sealed Fixed Ratchet	Sealed Fixed Ratchet
Gear Teeth	72	80	80
Gear Action	5°	4.5°	4.5°
Range, in lb	24-240	60-1,200	300-3,000
Range, ft lb	2-20	5-100	25-250
Range, N•m	2.7-27.12	6.7-135	34-339
Head Depth, inches	7/16	5/8	3/4
Head Width, inches	7/8	1 5/32	1 5/8
Housing Color	Red	Red	Red
Length, inches	15 1/4	17 1/4	26 1/4
Ratchet Service Kit	RKRT936	RKRF936	RKRS936

CE

Techwrench (standard models)

- Torque accuracy ratchet head models: 2% CW, 3% CCW from 20-100% F.S. 4% CW, 6% CCW from 10-19% F.S. 8% CW, 10% CCW from 5-9% F.S. (TECH2 only)
- Torque accuracy interchangeable head models: 4% CW, 6% CCW from 20-100% F.S. 8% CW, 12% CCW from 10-19% F.S. 16% CW, 20% CCW from 5-9% F.S. (TECH Y only)
- Tolerance (early preset alert) - 2% of torque setting



TECH2FR100

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration. (unless otherwise indicated)

All wrenches and drivers are calibrated per ASME and ISO standards for accuracy, from 20 to 100% of full scale, using NIST traceable equipment.



WARNING



• Do not exceed rated torque • Do not use to break fasteners loose

• Periodic recalibration is necessary to maintain accuracy • Read safety precautions on pages W1 to W4

TORQUE

Techwrench® Torque Wrenches

Techmemory™ electronic torque wrenches include TORQLOG®, a downloading software on CD for IBM® PCs and a 6' RS232 serial cable. 2 Microsoft® Excel® templates are also in the CD for customer convenience. The download template provides basic statistical analysis of dumped readings. The date/time template adds a date and time stamp to each reading while the wrench is attached to the PC. Templates can be customized to suit specific user needs. 6 button operation. RS232 port for downloading data to computer for analysis. All models include 3 "AA" batteries for power. Comfortable, nonslip grip. Stand on handle bottom keeps tool from rolling off flat surface. Flex head ratchet moves 15°. All models have a low battery indicator and auto shutoff (after 2 minutes idle). Designed to withstand shocks without failure. Splash proof to protect against water and most automotive shop fluid. Includes storage case. Complies with ISO®-6789-2003 and ASME® B107.300 Standards. Additional technical information is available at www.snapon.com/torque/techwrench.

Techmemory Features:

- Torque accuracy TECH1, 2 and 3 ratchet head models: 1% CW, 1.5% CCW 2% CW, 3% CCW from 10 to 19% F.S. 4% CW, 8% CCW from 5 to 9% F.S. (TECH2 only)
- Torque accuracy TECH4 ratchet head model: 2% CW, 3% CCW from 20 to 100% F.S. 4% CW, 6% CCW from 10 to 19% F.S.
- Torque accuracy interchangeable head models: 4% CW, 6% CCW from 20 to 100% F.S. 8% CW, 12% CCW from 10 to 19% F.S. 4% CW, 20% CCW from 5 to 9% F.S. (TECH Y only)
- Manual peak store, recall, clear and print functions
- Memory capacity: 1000 peak readings
- TechLog™ download software CD included
- Excel® Download Template with basic statistics
- Date/time Excel download template (wrench connected to PC)
- Serial RS232, with selectable 1200 to 19.2K baud rate
- Serial cable: 6' with 9 pin PC interconnect included
- Dual 80® technology on all 72 and 80 tooth

Applications:

- Automotive service: printout provides assurance that lug nuts, head bolts, etc. have been tightened to specification
- Assembly operations: gather data to manage quality
- Manufacturing /ISO and SPC®: generate statistics for technical files and process auditing
- Military: document compliance with maintenance schedules and inspections
- Aviation: include torque data in maintenance reports



TECH2YM100



TECH2YDM100

Memory Models/4% Accuracy/Interchangeable Head and "D" Models

Specifications	TECH1JM240 †	TECH1JDM240 †	TECH2YM100 †	TECH2YDM100 †	TECH3XM250 †	TECH3XDM250 †
Head Type	Interchangeable	Interchangeable	Interchangeable	Interchangeable	Interchangeable	Interchangeable
Range, in lb	24-240	24-240	60-1,200	60-1,200	300-3,000	300-3,000
Range, ft lb	2-20	2-20	5-100	5-100	25-250	25-250
Range, N•m	2.7-27.12	2.7-27.12	6.7-135	6.7-135	34-339	34-339
Shank Diameter	J (0.425")	J (0.425")	Y (0.560")	Y (0.560")	X (0.735")	X (0.735")
Torque Setting Resolution	0.1 ft lb (0.1 N•m, 1 in lb)	0.1 ft lb (0.1 N•m, 1 in lb)	1 ft lb (1 N•m, 1 in lb)	1 ft lb (1 N•m, 1 in lb)	1 ft lb (1 N•m, 1 in lb)	1 ft lb (1 N•m, 1 in lb)
Housing Color	Red	Grey	Red	Grey	Red	Grey
Overall Length, in (mm)	13 1/2 (343)	13 1/2 (343)	15 1/2 (394)	15 1/2 (394)	23 1/2 (597)	23 1/2 (597)
Weight, lbs (kg)	1.6 (.73)	1.6 (.73)	1.9 (.86)	1.9 (.86)	2.9 (1.32)	2.9 (1.32)

Wrench length specification does not include the length of interchangeable heads. The certification of accuracy provided per ASME and ISO standards is 20 to 100% of full scale. See pg 255-258 for interchangeable tool heads. † C E

Techwrench Features: (all "D" models)

- Hidden torque preset adjustment (momentary displays at Zero/Tare)
- Hidden tolerance adjustment + and - 1 to 16% of preset value



TECH1J240



TECH2YD100

Standard Models/4% Accuracy/Interchangeable Head and "D" Models

Stock No.	Range, in lb	Range, ft lb	Range, N•m	Shank Diameter	Housing Color	Length, inches
TECH1J240 †	24-240	2-20	2.7-27.12	J (0.425")	Red	13 3/4
TECH2Y100 †	60-1,200	5-100	6.7-135	Y (0.560")	Red	15 1/2
TECH3X250 †	300-3,000	25-250	34-339	X (0.735")	Red	23 3/4
TECH4Z600 †	720-7,200	60-600	81-813	Z (0.990")	Red	42
TECH1JD240 †	24-240	2-20	2.7-27.12	J (0.425")	Grey	13 3/4
TECH2YD100 †	60-1,200	5-100	6.7-135	Y (0.560")	Grey	15 1/2
TECH3XD250 †	300-3,000	25-250	34-339	X (0.735")	Grey	23 3/4
TECH4ZD600 †	720-7,200	60-600	81-813	Z (0.990")	Grey	42

Wrench length specification does not include the length of interchangeable heads.

The certification of accuracy provided per ASME and ISO standards is 20 to 100% of full scale. See pg 255-258 for Interchangeable Tool Heads.

† C E



TECH3FRM250

Memory Models/1% Accuracy/Ratcheting/Flex Head

Specifications	TECH1FRM240 †	TECH2FRM100 †	TECH3FRM250 †	TECH4RM600 †
Square Drive, inches	1/4	3/8	1/2	3/4
Head Type	Flex Head	Flex Head	Flex Head	Fixed Ratchet
Gear Teeth	72	80	80	32
Gear Action	5°	4.5°	4.5°	11°
Range, in lb	24-240	60-1,200	300-3,000	720-7,200
Range, ft lb	2-20	5-100	25-250	60-600
Range, N•m	2.7-27.12	6.7-135	34-339	81-813
Head Depth, inches	7/16	5/8	3/4	1 1/4
Head Width, inches	7/8	1 5/32	1 5/8	2 1/2
Torque Setting Resolution	0.1 ft lb (0.1 N•m, 1 in lb)	1 ft lb (1 N•m, 1 in lb)	1 ft lb (1 N•m, 1 in lb)	1 ft lb (1 N•m, 1 in lb)
Overall Length, inches (mm)	15 (381)	17 (432)	26 (660)	48 (1,219)
Ratchet Service Kit	RKRT72	RKRF80	RKRS80	RKRQC4
Housing Color	—	Grey	Red	—
Weight, lbs (kg)	1.7 (.77)	2.2 (.98)	3.7 (1.68)	10.0 (4.54)

The certification of accuracy provided per ASME and ISO standards is 20 to 100% of full scale. † C E

Adjustable Click-Type

The QD Series of click-type Torque Instruments features an innovative design that provides consistently accurate readings and rugged, trouble free performance.

Features:

- **Certificate of Calibration.** A Certificate of Calibration (right) is packed with every QD series torque instrument. Actual certification readings and individual instrument serial number are included. Each torque instrument, as calibrated at the factory, is certified to meet the accuracy specified in ASME® and was calibrated on a torque standard traceable to the National Institute of Standards Technology (NIST®)
- **Accuracy.** All QD series torque instruments are accurate to ±4% clockwise and ±6% counterclockwise from 20% of full scale to full scale
- **Long Life Ratchet Head.** QD series torque instruments feature the Snap-on® high strength sealed ratchet head. Sealed ratchet heads keep out dirt and moisture while being virtually maintenance free. Applies to all QD series ratchet head models. (U.S. Patent 6,125,722) applies to 1/4, 3/8 and 1/2" drive ratchet head models only
- **Minimal Friction Hour Glass Cam.** Unique cam design minimizes friction due to reduced contact area between the cam and internal tube wall. Cam retains and releases lubricant where needed. Reduces friction results in more accurate and repeatable torque values

Snap-on
Certificate of Calibration

Model No. QD2FR75	Type Micrometer adjustable	Serial Number 0198492147
Range 15.00 ft-lb - 75.00 ft-lb	Manufacturer Snap-on	Calibration equipment Versatest .25%
Set Torque (ft-lb)		Readings (ft-lb)
Clockwise torque (Tolerance: 4.0%)		
15.00	15.11 0.7%	15.11 0.7%
45.00	44.44 -1.2%	44.44 -1.2%
75.00	75.96 1.3%	77.13 2.8%
Counterclockwise torque (Tolerance: 6.0%)		
15.00	15.23 1.5%	15.23 1.5%
45.00	45.30 0.7%	45.30 0.7%
75.00	72.32 -3.6%	72.32 -3.6%

Result: Measured values are within tolerance according to : ISO 6789

Date: 1/21/05 Operator: Eric Brathwaite Supervisor: Gilbert Cervantes

Calibration is performed in comparison with reference standards which have been calibrated by a recognized NIST laboratory and are therefore traceable to the National Institute of Standards and Technology. The user of this certificate bears sole responsibility for calibration and decontamination thereof. Subusers of this certificate are each bound by its conditions.

- **Laser Etched Scale.** Easier to read under most light conditions.
- **Positive Stop.** Instrument cannot be accidentally disassembled if wound down past scale
- **Long Term Protection.** Each instrument includes a storage case



QD2100



QD2R100



QD2RN50

U.S. Torque Instruments (in lb)/±4% Accuracy

Square Drive, Inches	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, min	Range, max	Increments	Length, inches	Head Width, inches	Head Depth, inches	Storage Case	Ratchet Service Kit
1/4	QD150	Fixed	—	—	10 in lb	50 in lb	.5 in lb	9 3/4	5/8	13/16	PBQD1	—
1/4	QD1R50	Fixed Ratchet	36	10°	10 in lb	50 in lb	.5 in lb	9 7/8	7/8	7/16	PBQD1	RKRT936
1/4	QD1200	Fixed	—	—	40 in lb	200 in lb	1 in lb	10 15/16	5/8	13/16	PBQD1	—
1/4	QD1R200	Fixed Ratchet	36	10°	40 in lb	200 in lb	1 in lb	11 1/16	7/8	7/16	PBQD1	RKRT936
3/8	QD2R200	Compact Ratchet	36	10°	40 in lb	200 in lb	1 in lb	11 1/16	7/8	7/16	PBQD1	RKRF936
3/8	QD21000	Fixed	—	—	200 in lb	1,000 in lb	5 in lb	14 9/16	1	1 3/16	PBQD2	—
3/8	QD2R1000	Fixed Ratchet	36	10°	200 in lb	1,000 in lb	5 in lb	15 9/16	1 5/32	9/16	PBQD2	RKRF936
1/2	QD3R1600	Fixed Ratchet	36	10°	320 in lb	1,600 in lb	10 in lb	19	1 5/8	3/4	PBQD3	RKRS936
1/2	QD32500	Fixed	—	—	500 in lb	2,500 in lb	10 in lb	18 1/8	1	1 1/4	PBQD3	—
1/2	QD3R2500	Fixed Ratchet	36	10°	500 in lb	2,500 in lb	10 in lb	19 1/8	1 5/8	3/4	PBQD3	RKRS936

U.S. Torque Instruments (ft lb)

3/8	QD275	Fixed	—	—	5 ft lb	75 ft lb	.5 ft lb	14 9/16	1	1 3/16	PBQD2	—
3/8	QD2FR75	Flex Ratchet	36	10°	5 ft lb	75 ft lb	.5 ft lb	15 3/4	1 5/32	9/16	PBQD2	RKRF936
3/8	QD2100	Fixed	—	—	20 ft lb	100 ft lb	.5 ft lb	14 9/16	1	1 3/16	PBQD2	—
3/8	QD2R100	Fixed Ratchet	36	10°	20 ft lb	100 ft lb	.5 ft lb	15 9/16	1 5/32	9/16	PBQD2	RKRF936
1/2	QD3150	Fixed	—	—	30 ft lb	150 ft lb	1 ft lb	18	1	1 1/4	PBQD3	—
1/2	QD3R150	Fixed Ratchet	36	10°	30 ft lb	150 ft lb	1 ft lb	19	1 5/8	3/4	PBQD3	RKRS936
1/2	QD3250	Fixed	—	—	50 ft lb	250 ft lb	1 ft lb	23 3/16	1	1 1/4	PBQD3	—
1/2	QD3R250	Fixed Ratchet	36	10°	50 ft lb	250 ft lb	1 ft lb	24 3/16	1 5/8	3/4	PBQD3	RKRS936
1/2	BRUTUS3R250D	Fixed Ratchet	36	10°	50 ft lb	250 ft lb	1 ft lb	28	1 3/8	3/4	—	RKRS936
3/4	QD4400	Fixed	—	—	75 ft lb	400 ft lb	2.5 ft lb	33 3/4	1 1/2	1 1/2	PBQC4	—
3/4	QD4R400	Fixed Ratchet	32	11°	75 ft lb	400 ft lb	2.5 ft lb	35 3/4	2 1/2	1 1/4	PBQC4	RKRC4
3/4	QD4600	Fixed	—	—	100 ft lb	600 ft lb	5 ft lb	40 3/4	1 1/2	1 1/2	PBQC4	—
3/4	QD4R600	Fixed Ratchet	32	11°	100 ft lb	600 ft lb	5 ft lb	42 3/4	2 1/2	1 1/4	PBQC4	RKRC4
1	QD5R1000	Fixed Ratchet	30	12°	200 ft lb	1,000 ft lb	5 ft lb	71	3 1/8	1 1/2	PBQC5	RKRC5

Metric Torque Instruments (kg m, kg cm)

3/8	QD2RM1000	Flex Head	36	10°	200 kg cm	1,000 kg cm	5 kg cm	15 9/16	1 5/32	9/16	PBQD2	RKRF936
1/2	QD3RM30	Fixed Ratchet	36	10°	6 kg m	30 kg m	.2 kg m	19	1 5/8	3/4	PBQD3	RKRS936

Newton Meter Torque Wrenches/±4% Accuracy

1/4	QD1RN6	Fixed Ratchet	36	10°	10 dN•m	60 dN•m	.5 dN•m	9 7/8	7/8	7/16	PBQD1	RKRT936
1/4	QD1RN25	Fixed Ratchet	36	10°	50 dN•m	250 dN•m	1 dN•m	11 3/4	7/8	7/16	PBQD1	RKRT936
3/8	QD2RN25	Compact Ratchet	36	10°	50 dN•m	250 dN•m	1 dN•m	11 3/4	7/8	7/16	PBQD2	RKRF936
3/8	QD2RN50	Fixed Ratchet	36	10°	10 N•m	50 N•m	.5 N•m	15 9/16	1 5/32	9/16	PBQD2	RKRF936
3/8	QD2RN100	Fixed Ratchet	36	10°	20 N•m	100 N•m	.5 N•m	15 9/16	1 5/32	9/16	PBQD2	RKRF936
1/2	QD3RN200	Fixed Ratchet	36	10°	40 N•m	200 N•m	2 N•m	19	1 5/8	3/4	PBQD3	RKRS936
1/2	QD3RN350	Fixed Ratchet	36	10°	70 N•m	350 N•m	2 N•m	24 3/16	1 5/8	3/4	PBQD3	RKRS936
3/4	QD4RN800	Fixed Ratchet	32	11°	150 N•m	800 N•m	5 N•m	42 3/4	2 1/2	1 1/4	PBQC4	RKRC4

All Snap-on torque wrenches, drivers and testers are provided with a Certificate of Calibration. (unless otherwise indicated)

All wrenches and drivers are calibrated per ASME and ISO standards for accuracy, from 20 to 100% of full scale, using NIST traceable equipment.



WARNING



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

TORQUE

Adjustable Click-Type, TQ Series

TQ Thumb Wheel Series:

- Flex Head Models offer sealed Snap-on® ratchets, which flex up to 15° to provide knuckle and obstruction clearance
- Fixed Ratchet Models offer a sealed *Snap-on* ratchet that is rigidly fixed in line with the torque body
- *Snap-on* Sealed Ratchet Head is virtually maintenance free; more time working with the tool, less time on tool maintenance
- Thumb Screw Type Adjustment is faster than cycling through a micrometer style torque wrench. Guard prevents setting from being changed accidentally. Setting is displayed in window. Conversion table to N•m displayed on handle
- Sealed Neck keeps dust and grit away from the torque mechanism for longer tool life
- Split Beam Measuring Element provides accurate, reliable readings and eliminates the heavy coil spring used in conventional click-type wrenches. This yields fewer moving parts, reducing friction and wear

- Cushion grip Handle provides comfort plus control and resists most automotive fluids
- Designed for measuring torque in a clockwise direction only. Wrench is not reversible
- CE EU — B, FR, ES, DE

Guaranteed Accuracy:

TQ Series - Accurate within ±4% of any clockwise setting from 20% of full scale to full scale.

TQR400E/TQR600E only:

- ±4% of setting when used in the following orientations:
- Main body vertical orientation
- Torque wrench square drive axis with vertical orientation
- In all other positions, guaranteed accuracy is ±5%. Accuracy is guaranteed in the clockwise direction from 20% of capacity to full capacity



TQFR100C



TQFR50B



TQFR250E



TQR600E

U.S. Reading Torque Wrenches with Conversion Scale/±4% Accuracy

Square Drive, inch	Stock No.	Head Style	Gear Teeth	Swing Arc	Range, max	Range, min	Increments	Length, inches	Head Width, inches	Head Depth*, inches	Ratchet Service Kit	Case
3/8	TQFR50B	Flex Head	30	12°	600 in lb	120 in lb	10 in lb	17 5/8	1 1/8	9/16	RKQJA2D	PB50A
3/8	TQFR100B	Flex Head	30	12°	100 ft lb	20 ft lb	2 ft lb	17 5/8	1 1/8	9/16	RKQJA2D	PB50A
3/8	TQFR50C	Flex Head	36	10°	600 in lb	120 in lb	10 in lb	18 5/8	1 1/8	9/16	RKRF936	PBTQ2
3/8	TQFR100C	Flex Head	36	10°	100 ft lb	20 ft lb	2 ft lb	18 5/8	1 1/8	9/16	RKRF936	PBTQ2
3/8	TQR100B	Fixed Ratchet	30	12°	100 ft lb	20 ft lb	2 ft lb	18 5/8	1 5/32	5/8	RKRF936	PBTQ2
1/2	TQFR250E	Flex Head	36	10°	250 ft lb	40 ft lb	5 ft lb	22 3/8	1 5/8	3/4	RKRS936	PBTQ3
1/2	TQR250E	Fixed Ratchet	36	10°	250 ft lb	40 ft lb	5 ft lb	22 3/8	1 5/8	3/4	RKRS936	PBTQ3
3/4	TQR400E**	Detach Ratchet	32	11°	400 ft lb	130 ft lb	10 ft lb	38 1/8	2 1/2	1 1/4	RKRTQ4	PBTQ4
3/4	TQR600E**	Detach Ratchet	32	11°	600 ft lb	200 ft lb	10 ft lb	48 5/8	2 1/2	1 1/4	RKRTQ4	PBTQ4

Note: Difference between B and C are ratchet head and handle type.

Newton Meter Torque Wrenches with Conversion Scale/±4% Accuracy

3/8	TQFRN130B	Flex Head	30	12°	130 N•m	25 N•m	5 N•m	17 5/8	1 1/8	9/16	RKQJA2D
3/8	TQFRN68B	Flex Head	30	12°	68 N•m	14 N•m	2 N•m	17 5/8	1 1/8	9/16	RKQJA2D
1/2	TQFRN350D	Flex Head	32	11°	350 N•m	70 N•m	5 N•m	22 1/8	1 5/8	3/4	R33BFRK

Metric Torque Wrenches with Conversion Scale/±4% Accuracy

1/2	TQFRM34D	Flex Ratchet	32	11°	34 kg m	5.0 kg m	1.0 kg m	22 1/8	1 5/8	3/4	RKTQ3
3/4	TQFRM80C	Detach Ratchet	32	11°	80 kg m	26.0 kg m	2.0 kg m	48	2 3/8	1 1/4	RKRQC4

All wrenches are nonreversible.

**Does not include square drive dimension.

***3 piece construction disassembles for storage/transport.

All Snap-on torque wrenches, drivers and testers are provided with a Certificate of Calibration. (unless otherwise indicated)

All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20 to 100% of full scale, using NIST® traceable equipment.



TE50FUA



TE175L



U.S. Reading/Standard 2% Accuracy

Square Drive, inches	Basic Models Stock No.	Follow-up Models Stock No.	Signal Models Stock No.	Range	Increments	Length, inches	Width, inches	Head* Depth, inches	Storage Case
1/4	TE1A	TE1FUA		15 in lb	1/4 in lb	9 29/32	2 11/16	1 1/4	PB9
1/4	TE3A	TE3FUA		30 in lb	1/2 in lb	9 29/32	2 11/16	1 1/4	PB9
1/4	TE6A	TE6FUA		75 in lb	1 in lb	9 29/32	2 11/16	1 1/4	PB9
3/8	TE12A	TE12FUA	TE12LA	150 in lb	2 1/2 in lb	9 29/32	2 11/16	1 1/4	PB9
3/8	TE25A	TE25FUA	TE25LA	300 in lb	5 in lb	9 29/32	2 11/16	1 1/4	PB9
3/8	TE50A	TE50FUA	TE50LA	600 in lb	10 in lb	12 1/2	2 11/16	1 1/4	PB9
3/8	TE12FA	TE12FFUA	TE12FLA	12 ft lb	1/2 ft lb	9 29/32	2 11/16	1 1/4	PB9
3/8	TE25FA	TE25FFUA	TE25FLA	25 ft lb	1/2 ft lb	9 29/32	2 11/16	1 1/4	PB9
3/8	TE50FA	TE50FFUA	TE50FLA	50 ft lb	1 ft lb	12 1/2	2 11/16	1 1/4	PB9
1/2	TE51	TE51FU	TE51L	600 in lb	10 in lb	14 11/16	2 23/32	1 5/16	
1/2	TE51F	TE51FFU	TE51FL	50 ft lb	1 ft lb	15	2 23/32	1 5/16	
1/2	TE100	TE100FU	TE100L	100 ft lb	1 ft lb	15 21/32	2 3/4	1 3/8	PB8A
1/2	TE175	TE175FU	TE175L	175 ft lb	2 1/2 ft lb	18 3/4	2 3/4	1 3/8	PB8A
1/2	TE250	TE250FU	TE250L	250 ft lb	5 ft lb	23 3/4	2 3/4	1 3/8	PB8A
3/4	TE352A	TE352FUA	TE352LA	350 ft lb	5 ft lb	29 7/8	3 1/4	1 25/32	PB39
3/4	TE602A	TE602FUA	TE602LA	600 ft lb	10 ft lb	39 31/32	3 1/4	1 25/32	PB39
1	TE803**	TE803FU**	TE803L**	800 ft lb	10 ft lb	67 3/4	3 9/16	2 1/32	
1	TE1003**	TE1003FU**	TE1003L**	1,000 ft lb	10 ft lb	67 3/4	3 9/16	2 1/32	
1	TE1503	TE1503FU	TE1503L	1,500 ft lb	25 ft lb	80	4 13/32	2 1/8	
1	TE2003	TE2003FU	TE2003L	2,000 ft lb	25 ft lb	80	4 13/32	2 1/8	
1 1/2	TE2005	TE2005FU	TE2005L	2,000 ft lb	25 ft lb	80	4 11/32	2 3/8	
1 1/2	TE3005	TE3005FU	TE3005L	3,000 ft lb	50 ft lb	140	5 1/2	2 13/16	

Does not include certificate of calibration.



TESI75



TESI75L

Newton Meter Reading/Standard 2% Accuracy

Square Drive, inches	Basic Models Stock No.	Follow up Models Stock No.	Signal Models Stock No.	Range, N•m	Increments, N•m	Length, inches	Width, inches	Head* Depth, inches	Storage Case
1/4	TESI5		TESI5L	5	.2	9 29/32	2 11/16	1 1/4	PB9
1/4	TESI10	TESI10FU	TESI10L	10	.5	9 29/32	2 11/16	1 1/4	PB9
3/8	TESI20	TESI20FU	TESI20L	20	.5	9 29/32	2 11/16	1 1/4	PB9
3/8	TESI30	TESI30FU	TESI30L	30	1	9 29/32	2 11/16	1 1/4	PB9
3/8	TESI60	TESI60FU	TESI60L	60	2	12 1/2	2 11/16	1 1/4	PB9
3/8	TESI70	TESI70FU	TESI70L	70	2	12 1/2	2 11/16	1 1/4	PB9
3/8	TESI75	TESI75FU	TESI75L	75	1	12 1/2	2 11/16	1 1/4	PB9
1/2	TESI125	TESI125FU	TESI125L	125	5	16	2 3/4	1 3/8	PB8A
1/2	TESI200	TESI200FU	TESI200L	200	5	18 3/4	2 3/4	1 3/8	PB8A
1/2	TESI250	TESI250FU	TESI250L	250	5	18 3/4	2 3/4	1 3/8	PB8A
3/4	TESI500A	TESI500FUA	TESI500LA	500	10	29 7/8	3 1/4	1 25/32	PB39
3/4	TESI800A	TESI800FUA	TESI800LA	800	20	40 7/8	3 1/4	1 25/32	PB39
1	TESI1360**	TESI1360FU**	TESI1360L**	1,360	20	66 13/16	3 9/16	2 1/32	
1	TESI2803	TESI2803FU	TESI2803L	2,800	50	80	4 13/32	2 1/8	
1 1/2	TESI2805	TESI2805FU	TESI2805L	2,800	50	80	4 25/32	2 3/8	
1 1/2		TESI4000FU	TESI4000L	4,000	100	140	5 1/2	2 13/16	

Does not include certificate of calibration.

*Does not include square drive dimension.

**Includes separately packed 92TQPA 4 tubular extension handle.

Inc ludes separately packed 93TQPA 5 tubular extension handle.

Guaranteed Accuracy:

Standard 2% models are accurate within ±2% of the reading from 20% of full scale to full scale clockwise and counterclockwise.



WARNING



• Do not exceed rated torque • Do not use to break fasteners loose

• Periodic recalibration is necessary to maintain accuracy • Read safety precautions on pages W1 to W4

TORQUE

TORQUEMETER®



TER175



TER175L

Combination U.S./Newton Meter Reading - Precise 1% Accuracy

Square Drive, Inches	Basic Models Stock No.	Follow up Models Stock No.	Signal Models Stock No.	N•m Range	N•m Increments	U.S. Range	U.S. Increments	Length, inches	Width, inches	Head* Depth, inches	Storage Case
1/4	TER1A	TER1FUA		1.7 N•m	.05 N•m	15 in lb	.5 in lb	9 29/32	2 11/16	1 1/4	PB9
1/4	TER3A	TER3FUA		3.5 N•m	0.1 N•m	30 in lb	1 in lb	9 29/32	2 11/16	1 1/4	PB9
1/4	TER6A	TER6FUA		8.4 N•m	0.2 N•m	75 in lb	1 in lb	9 29/32	2 11/16	1 1/4	PB9
3/8	TER12A	TER12FUA	TER12LA	17 N•m	.5 N•m	150 in lb	5 in lb	9 29/32	2 11/16	1 1/4	PB9
3/8	TER25A	TER25FUA	TER25LA	3,200 N•cm	50 N•cm	300 in lb	5 in lb	9 29/32	2 11/16	1 1/4	PB9
3/8	TER50A	TER50FUA	TER50LA	60 N•m	1 N•m	600 in lb	20 in lb	12 1/2	2 11/16	1 1/4	PB9
1/2	TER51	TER51FU	TER51L	60 N•m	1 N•m	600 in lb	20 in lb	15	2 11/16	1 5/16	
1/2	TER100	TER100FU	TER100L	140 N•m	5 N•m	100 ft lb	2 ft lb	16	2 3/4	1 3/8	PB8A
1/2	TER175	TER175FU	TER175L	230 N•m	10 N•m	175 ft lb	5 ft lb	18 3/4	2 3/4	1 3/8	PB8A
1/2	TER250			340 N•m	10 N•m	250 ft lb	10 ft lb	23 3/4	2 3/4	1 3/8	PB8A
3/4	TER352A	TER352FUA	TER352LA	480 N•m	10 N•m	350 ft lb	5 ft lb	29 7/8	3 1/4	1 3/8	PB39
3/4	TER602A	TER602FUA	TER602LA	800 N•m	20 N•m	600 ft lb	20 ft lb	40 7/8	3 1/4	1 29/32	PB39
1	TER1003**		TER1003L**	1,360 N•m	20 N•m	1,000 ft lb	20 ft lb	66 13/16	3 9/16	2 1/32	

Does not include certificate of calibration.



TEC175



TEC175L

Combination U.S./Metric Reading - Standard 2% Accuracy

Square Drive, Inches	Basic Models Stock No.	Follow up Models Stock No.	Signal Models Stock No.	Metric Range	Metric Increments	U.S. Range	U.S. Increments	Length, inches	Width, inches	Head* Depth, inches	Storage Case
1/4	TEC1A	TEC1FUA		16 kg cm	1 kg cm	15 in lb	.5 in lb	9 29/32	2 11/16	1 1/4	PB9
1/4	TEC3A	TEC3FUA		35 kg cm	1 kg cm	30 in lb	1 in lb	9 29/32	2 11/16	1 1/4	PB9
1/4	TEC6A	TEC6FUA		90 kg cm	2.5 kg cm	75 in lb	1 in lb	9 29/32	2 11/16	1 1/4	PB9
3/8	TEC12A	TEC12FUA	TEC12LA	175 kg cm	5 kg cm	150 in lb	5 in lb	9 29/32	2 11/16	1 1/4	PB9
3/8	TEC25FA	TEC25FFUA	TEC25FLA	350 kg cm	10 kg cm	25 ft lb	1 ft lb	9 29/32	2 11/16	1 1/4	PB9
3/8	TEC50A	TEC50FUA	TEC50LA	700 kg cm	20 kg cm	600 in lb	20 in lb	12 1/2	2 11/16	1 1/4	PB9
1/2	TEC51	TEC51FU	TEC51L	700 kg cm	20 kg cm	600 in lb	20 in lb	15	2 11/16	1 5/16	
1/2	TEC100	TEC100FU	TEC100L	14 kg m	.5 kg m	100 ft lb	2 ft lb	16	2 3/4	1 3/8	PB8A
1/2	TEC175	TEC175FU	TEC175L	25 kg m	1 kg m	175 ft lb	5 ft lb	18 3/4	2 3/4	1 3/8	PB8A
1/2	TEC250	TEC250FU	TEC250L	35 kg m	1 kg m	250 ft lb	10 ft lb	23 3/4	2 3/4	1 3/8	PB8A
3/4	TEC352A	TEC352FUA	TEC352LA	50 kg m	1 kg m	350 ft lb	10 ft lb	29 7/8	3 1/4	1 29/32	PB39
3/4	TEC602A	TEC602FUA	TEC602LA	80 kg m	2 kg m	600 ft lb	20 ft lb	40 7/8	3 1/4	1 29/32	PB39
1	TEC803**	TEC803FU**	TEC803L**	110 kg m	2 kg m	800 ft lb	25 ft lb	67 3/4	3 9/16	2 1/32	
1			TEC1003L**	136 kg m	2 kg m	1,000 ft lb	20 ft lb	67 3/4	3 9/16	2 1/32	
1		TEC1503FU	TEC1503L	200 kg m	5 kg m	1,500 ft lb	25 ft lb	80	4 13/32	2 1/8	
1		TEC2003FU	TEC2003L	280 kg m	5 kg m	2,000 ft lb	50 ft lb	80	4 13/32	2 1/8	
1 1/2	TEC2005	TEC2005FU	TEC2005L	280 kg m	5 kg m	2,000 ft lb	50 ft lb	80	4 13/32	2 3/8	
1 1/2		TEC3005FU	TEC3005L	400 kg m	5 kg m	3,000 ft lb	50 ft lb	140	5 1/2	2 13/16	

Does not include certificate of calibration.

*Does not include square drive dimension.

**Includes separately packed 92TQPA 4 tubular extension handle.

Inc ludes separately packed 93TQPA 5 tubular extension handle.

Guaranteed Accuracy:

Precise 1% models are accurate within $\pm 1\%$ of the reading from 20% of full scale to full scale clockwise and counterclockwise.

Standard 2% models are accurate within $\pm 2\%$ of the reading from 20% of full scale to full scale clockwise and counterclockwise.

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration. (unless otherwise indicated)

All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20 to 100% of full scale, using NIST® traceable equipment.

T-handle TORQOMETER®



TEX602TLA



TEXC2003TFU



85TQP

U.S. Reading Standard 2% Accuracy

Input Drive Female Sq, inches	Output Drive Male Sq, inches	Follow up Models Stock No.	Light Signal Models Stock No.	U.S. Range, ft lb	U.S. Increments, ft lb	Metric Range kg m	Metric Increments, kg m	Length, inches	Width, inches	Head Depth, inches	Optional T Bars/Extension Handles			
											T Bars	Length, inches	Ext., inches	Length, inches
3/4	3/4	TEX602TFUA	TEX602TLA	600	10			10 7/8	4 3/8	3 3/4	81TQP	45		
3/4	1	TEX1003TFUA	TEX1003TLA	1,000	10			10 7/8	4 3/8	4 1/8	81TQP	66		
1	1	TEX2003TFU	TEX2003TL	2,000	25			10 7/8	4 3/8	4 7/16	82TQP	18	85TQP	31
1	1 1/2	TEX2005TFU		2,000	25			10 7/8	4 3/8	4 7/16	82TQP	18	85TQP	31

Does not include certificate of calibration.

Combination U.S./Metric Reading

3/4	3/4	TEXC602TFUA	TEXC602TLA	600	20	80	2	9	3 1/4	3 3/4	81TQP	45		
3/4	1	TEXC1003TFUA	TEXC1003TLA	1,000	20	136	2	9 7/8	3 5/8	4 1/8	81TQP	66		
1	1	TEXC2003TFU	TEXC2003TL	2,000	50	280	5	10 7/8	4 3/8	4 7/16	82TQP	18	85TQP	31

Does not include certificate of calibration.

TORQOMETER Torque Drivers - 1/4" Drive



TQSC4FUA



TQSSC4FUA

U.S. Reading Standard 2% Accuracy

Standard Basic Models Stock No.	Standard Follow up Models Stock No.	Length, inches	Stubby Basic Models Stock No.	Stubby Follow up Models Stock No.	Length, inches	Range	Increments
TQS025A	TQS025FUA	8 7/64	TQSS025A	TQSS025FUA	5 1/4	48 in oz/3 in lb	1 in oz/ 1/16 in lb
TQS050A	TQS050FUA	8 7/64	TQSS050A	TQSS050FUA	5 1/4	96 in oz/6 in lb	2 in oz/ 1/8 in lb
TQS1A	TQS1FUA	8 7/64	TQSS1A	TQSS1FUA	5 1/4	192 in oz/12 in lb	4 in oz/ 1/4 in lb
TQS2A	TQS2FUA	8 7/64	TQSS2A	TQSS2FUA	5 1/4	384 in oz/24 in lb	8 in oz/ 1/2 in lb
TQS2.5A	TQS2.5FUA	8 7/64	TQSS2.5A	TQSS2.5FUA	5 1/4	480 in oz/30 in lb	12 in oz/1 in lb
TQS4A*	TQS4FUA*	8 11/16	TQSS4A*	TQSS4FUA*	5 1/4	50 in lb	1 in lb
TQS6A*	TQS6FUA*	8 11/16	TQSS6A*	TQSS6FUA*	5 1/4	75 in lb	1 in lb

Does not include certificate of calibration.

Combination U.S./Metric Reading - Standard 2% Accuracy

	TQSC1FUA	8 7/64		TQSSC1FUA	5 1/4	17 kg cm/15 in lb	.5 kg cm/5 in lb
	TQSC2.5FUA	8 7/64		TQSSC2.5FUA	5 1/4	35 kg cm/30 in lb	1 kg cm/1 in lb
	TQSC4FUA*	8 11/16		TQSSC4FUA*	5 1/4	56 kg cm/50 in lb	2 kg cm/2 in lb
	TQSC6FUA			TQSSC6FUA*	5 1/4	90 kg cm/75 in lb	3 kg cm/5 in lb

Does not include certificate of calibration.

Combination U.S./Newton Meter Reading - Standard 2% Accuracy**

	TQSR1FUA	8 7/64				1.6 N•cm/15 in lb	5 N•cm/.25 in lb
	TQSR2.5FUA	8 7/64				3.4 N•m/30 in lb	.1 N•m/1 in lb
	TQSR4FUA*	8 11/16				5.5 N•cm/50 in lb	.1 N•m/1 in lb
	TQSR6FUA*	8 11/16				8.4 N•m/75 in lb	.2 N•m/5 in lb

Does not include certificate of calibration.

*Includes 1/4" internal square drive in handle.

All drivers come in PB47 Plastic Case.

** Precise 1% models are available on special order.

ANSI® Spec. B107.300 applies to all these models.

TA358 Torque Angle Gauge.

- Determines angle controlled torque tightening
- Allows user to follow manufacturer's specifications
- Use on automotive, diesel and industrial equipment plus head bolts and rod bolts on motorcycles
- 3/8" square drive

TA362 Torque Angle Gauge.

- Allows user to follow manufacturer's specifications
- Calibrated in degrees in large, easy to read increments
- 3/4" square drive

TA360 Torque Angle Gauge.

- Similar to TA362 except 1/2" square drive

Torque Angle Gauges



TA362



WARNING



• Do not exceed rated torque • Do not use to break fasteners loose

• Periodic recalibration is necessary to maintain accuracy • Read safety precautions on pages W1 to W4

TORQUE

Torque Screwdrivers



QDRIVER3P

Preset Torque Screwdrivers/ $\pm 6\%$ Accuracy

- Ideal for low torque assemblies and precision application
- Drivers accept all standard 1/4" hex screwdriver bits
- Cam over torque limiting clutch free wheels when set torque is achieved
- Accuracy is $\pm 6\%$ from 20% to 100% of full scale in clockwise direction only for all drivers in series
- Lightweight construction features red anodized aluminum body with stainless steel shank
- Comfortable ergonomic trilobe grip and magnetic bit retention
- Not supplied with certificate of calibration

Stock No.	Range, min	Range, max	Length, inches
QDRIVER1P	6 in oz (4 N•cm)	32 in oz (22 N•cm)	4 9/16
QDRIVER2P	10 in oz (7 N•cm)	100 in oz (70 N•cm)	5 5/8
QDRIVER3P	1.5 in lb (16 N•cm)	15 in lb (169 N•cm)	5 5/8
QDRIVER4P	4 in lb (45 N•cm)	40 in lb (451 N•cm)	6

Torque Limiting Drivers/ $\pm 4\%$ Accuracy

QTS135 Adjustable Limiting Driver.

- Micrometer type adjustment
- Clutch allows 25° of free rotation on reaching set torque
- Guaranteed accuracy: within $\pm 4\%$ of setting from 20% of capacity to full capacity clockwise and counterclockwise

Stock No.	Range, minimum	Range, maximum	Increments	Length, inches
QTS135	5 in lb	35 in lb	0.5 in lb	7

Interchangeable Head, Click Type Torque Wrenches

Interchangeable heads permit ratcheting, fixed, or open end torquing capability with either adjustable or preset torque wrench bodies. A push of the locking pin provides quick change action, with a wide range of head styles to choose from.

- Selection: there are 2 adjustable models for quickly setting desired torque and 8 preset models for assembly line work
- Slim profile: each torque body is thin enough and long enough to get into tight areas
- Micrometer type adjustment: ensures fast, accurate settings and changes
- Guaranteed accuracy: all QC series interchangeable torque wrenches are accurate $\pm 4\%$ clockwise and $\pm 6\%$ counterclockwise from 20% of full scale to full scale



QC1I200



QC1P300



QC3P200



QDRIVER3

Adjustable Torque Screwdrivers/ $\pm 6\%$ Accuracy

- Ideal for low torque assemblies, precision applications and dash/under dash work on most domestic and imported vehicles
- Drivers accept all standard 1/4" hex screwdriver bits
- Cam over torque limiting clutch free wheels when set torque is achieved
- Accuracy is $\pm 6\%$ from 20% to 100% of full scale in clockwise direction only for all drivers in series
- Lightweight construction features red anodized aluminum body with stainless steel shank
- Comfortable ergonomic trilobe grip and magnetic bit retention

Stock No.	Range	Resolution	Length, inches
QDRIVER2	20 - 100 in oz (14 - 70 N•cm)	1 in oz	5 7/16
QDRIVER3	3 - 15 in lb (34 - 169 N•cm)	.2 in lb	6 1/4
QDRIVER4	5 - 40 in lb (56 - 451 N•cm)	.5 in lb	6 11/16
QDRIVER4NM	50 - 450 N•cm		6 11/16



QTS135

QTSP135 U.S. Preset Limiting Driver.

- Clutch mechanism to help prevent over torquing by allowing free rotation upon reaching the set torque value
- Ideal selection for assembly line work where the same requirement is constant
- Can be reset at different torque values or readjusted for accuracy whenever necessary

Torque Wrench Bodies/Adjustable/ $\pm 4\%$ Accuracy

Stock No.	Model Type	Shank Diameter	Range	Increments	Length, inches
QC1I200	Adjustable	J (0.425")	40-200 in lb	1 in lb	9 3/8
QC2I75	Adjustable	J (0.425")	5-75 ft lb	.5 ft lb	13

Torque Wrench Bodies/Pre-Set/ $\pm 4\%$ Accuracy

Stock No.	Model Type	Shank Diameter	Range	Length, inches
QC1P60	Preset	J (0.425")	10-60 in lb (11-66 dN•m)	6
QC1P100	Preset	J (0.425")	15-100 in lb (17-113 dN•m)	8
QC1P300	Preset	J (0.425")	60-300 in lb (68-339 dN•m)	10
QC2P75	Preset	J (0.425")	5-75 ft lb (7-100 N•m)	11
QC3P150	Preset	Y (0.560")	30-150 ft lb (41-203 N•m)	23
QC3P200	Preset	Y (0.560")	40-200 ft lb (55-270 N•m)	23
QC4P300	Preset	X (0.735")	60-300 ft lb (82-400 N•m)	27

Interchangeable Head, Click-Type Torque Wrenches

Torque Wrench Bodies/Adjustable/Dual Range

- Plug and play system of interchangeable heads are consistently sized from pin to the center of the fastener, so no adjustment calculations are needed
- Includes certificate of calibration
- Minimal friction "Hour Glass" cam retains and releases lubricant where needed to reduce friction
- Push buttons for quick release of interchangeable head
- Laser etched scale for easier reading in varying light sources
- Positive stop ensures instrument cannot be accidentally disassembled if wound down past scale
- Each instrument comes in a molded storage case for long term protection

Stock No.	Range, ft lb	Range, N•m	Increments	Shank Type	Weight, lbs (kg)	Length, inches (mm)
QD2IN50	8-36	10-50	0.5 N•m/0.4 ft lb	J	2.3 (1.12)	14 1/2 (368)
QD2IN100	16-72	20-100	0.5 N•m/0.4 ft lb	J	2.3 (1.12)	14 1/2 (368)
QD3IN200	20-150	40-200	2 N•m/1.2 ft lb	Y	3.36 (1.64)	23 (584)
QD3IN350	59-251	70-350	2 N•m/1.2 ft lb	X	3.36 (1.64)	23 (584)
QD4IN800*	120-600	150-800	5 N•m/4.3 ft lb	Z	11.14 (5.46)	41 1/2 (1054)

* For use with dual pin heads only
ASME® B107.300



QD3IN200



QJD12A



QYSD16A

Square Drive Heads/Ratcheting

Allow use of torque wrench bodies on previous page with sockets, crowfoot wrenches or other similar attachment.

Square Drive, inches	J (0.425")	Y (0.560")	X (0.735")	Z (0.990")	Head O.D., inches	Depth, inches	Center of Fastener to Retaining Pin	Ratchet Service Kit
1/4	QJD8A-72** (350)	—	—	—	17/32	9/64	QJD Series - 2.50"	RKRT72
3/8	QJD12A** (900)	QYD12A** (1,200)	—	—	21/32	11/64	QYD Series - 3.00"	RKRF936
1/2	QJD16A** (900)	QYD16A** (2,400)	QXD16A** (3,000)	—	21/32	11/64	QXD Series - 4.50"	RKRS936
3/4	—	—	QXD24A (3,600)	QZD24BDP (7,200)	25/32	11/64	QZD Series - 5.75"	RKRQC4
1	—	—	QXD32A (3,600)	QZD32BDP (7,200)	29/32	11/64	—	RKRQC5

** U.S. Patent 6,125,722

Value in parentheses in chart is the Maximum Recommended Working Torque, in lb

- Ratcheting box head allows constant contact with the fastener
- Plug and play shanks are consistently sized from pin to the center of the fastener, so no adjustment calculations are needed
- Reverse lever is located on top of the head to reduce the chance of accidental ratchet reversal



QJBOERM16A



QJBOER16A

Ratcheting Box End Heads, 12 Point, mm

Size, mm	Stock No.	Shank Diameter	O.D., mm	Head Depth, mm
10	QJBOERM10A	J (0.425")	21.9	5.0
13	QJBOERM13A	J (0.425")	25.9	6.3
16	QJBOERM16A	J (0.425")	33.6	7.0
17	QJBOERM17A	J (0.425")	36.5	7.0
18	QJBOERM18A	J (0.425")	38.5	8.0
19	QJBOERM19A	J (0.425")	38.7	8.7
22	QJBOERM22A	J (0.425")	45.7	9.4
24	QJBOERM24A	J (0.425")	49.5	11.2

Ratcheting Box End Heads, 12 Point, inches

Size, inches	Stock No.	Shank Diameter	O.D., inches	Head Depth, inches
3/8	QJBOER12A	J (0.425")	7/8	3/16
7/16	QJBOER14A	J (0.425")	15/16	7/32
1/2	QJBOER16A	J (0.425")	1 1/32	1/4
9/16	QJBOER18A	J (0.425")	1 3/16	1/4
5/8	QJBOER20A	J (0.425")	1 5/16	9/32
3/4	QJBOER24A	J (0.425")	1 17/32	11/32

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration. (unless otherwise indicated)

All wrenches and drivers are calibrated per ASME and ISO standards for accuracy, from 20 to 100% of full scale, using NIST traceable equipment.



WARNING



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4


TORQUE

Interchangeable Head, Click-Type

12 Point Box End Heads, mm



QYXM21A

	J (0.425")	Y (0.560")	X (0.735")	Z (0.990")	O.D., mm	Head Depth, mm
6	QJXM6A (180)	—	—	—	11	5
7	QJXM7A (240)	—	—	—	11	5
8	QJXM8A (265)	—	—	—	13	6
9	QJXM9A (355)	—	—	—	14	6
10	QJXM10A (630)	—	—	—	15	7
11	QJXM11A (710)	—	—	—	17	8
12	QJXM12A (805)	—	—	—	18	8
13	QJXM13A (900)	—	—	—	20	9
14	QJXM14A (900)	QYXM14A (1,400)	QXXM14A (1,400)	—	21	9
15	QJXM15A (900)	QYXM15A (1,770)	—	—	22	10
16	QJXM16A (900)	QYXM16A (2,195)	QXXM16A (2,195)	—	24	10
17	QJXM17A (900)	QYXM17A (2,365)	QXXM17A (2,365)	—	25	11
18	QJXM18A (900)	QYXM18A (2,400)	QXXM18A (2,690)	—	27	12
19	QJXM19A (900)	QYXM19A (2,400)	QXXM19A (2,860)	—	28	12
20	QJXM20A (900)	QYXM20A (2,400)	QXXM20A (3,070)	—	30	13
21	QJXM21A (900)	QYXM21A (2,400)	QXXM21A (3,295)	—	31	13
22	QJXM22A (900)	QYXM22A (2,400)	QXXM22A (3,600)	—	32	14
23	QJXM23A (900)	QYXM23A (2,400)	QXXM23A (3,600)	—	34	15
24	QJXM24A (900)	QYXM24A (2,400)	QXXM24A (3,600)	QZXM24ADP (4,505)	35	15
25	—	—	QXXM25A (3,600)	QZXM25ADP (4,950)	37	16
26	QJXM26A (900)	QYXM26A (2,400)	—	QZXM26A (5,380)	38	16
27	QJXM27A (900)	QYXM27A (2,400)	QXXM27A (3,600)	QZXM27ADP (5,940)	39	17
29	—	QYXM29A (2,400)	QXXM29A (3,600)	QZXM29A (6,640)	42	18
30	—	QYXM30A (2,400)	QXXM30A (3,600)	QZXM30ADP (7,035)	44	19
32	—	QYXM32A (2,400)	QXXM32A (3,600)	QZXM32ADP (7,200)	46	19
34	—	QYXM34A (2,400)	QXXM34A (3,600)	QZXM34ADP (7,200)	48	19
36	—	QYXM36A (2,400)	QXXM36A (3,600)	QZXM36ADP (7,200)	53	22

Center of fastener to retaining pin:

- * QJXM Series - 2.50"
- * QYXM Series - 3.00"
- * QXXM Series - 4.50"
- * QZXM Series - 5.75"

Value in parentheses is the Maximum Recommended Working Torque, in lb


12 Point Box End Heads, inches



QJX12A



QXX52A

	J (0.425")	Y (0.560")	X (0.735")	Z (0.990")	O.D., inches	Head Depth, inches
1/4	QJX8A (220)	—	—	—	13/32	3/16
9/32	QJX9A (250)	—	—	—	13/32	3/16
3/8	QJX12A (490)	—	—	—	9/32	1/4
7/16	QJX14A (715)	—	—	—	21/32	5/16
1/2	QJX16A (900)	QYX16A (900)	—	—	3/4	11/32
9/16	QJX18A (900)	QYX18A (1,340)	—	—	27/32	3/8
5/8	QJX20A (900)	QYX20A (2,050)	—	—	15/16	13/32
11/16	QJX22A (900)	QYX22A (2,400)	—	—	1 1/32	7/16
3/4	QJX24A (900)	QYX24A (2,400)	QXX24A (2,630)	—	1 1/8	15/32
13/16	QJX26A (900)	QYX26A (2,400)	QXX26A (3,600)	QZX26ADP (3,300)	1 3/16	17/32
7/8	QJX28A (900)	QYX28A (2,400)	QXX28A (3,600)	—	1 9/32	9/16
15/16	QJX30A (900)	QYX30A (2,400)	QXX30A (3,600)	—	1 3/8	19/32
1	QJX32A (900)	QYX32A (2,400)	QXX32A (3,600)	—	1 15/32	21/32
1 1/16	QJX34A (900)	QYX34A (2,400)	—	QZX34ADP (5,940)	1 9/16	11/16
1 1/8	—	QYX36A (2,400)	QXX36A (3,600)	QZX36ADP (6,430)	1 5/8	11/16
1 3/16	—	QYX38A (2,400)	QXX38A (3,600)	QZX38ADP (7,200)	1 3/4	3/4
1 1/4	—	QYX40A (2,400)	QXX40A (3,600)	QZX40ADP (7,200)	1 13/16	3/4
1 5/16	—	QYX42A (2,400)	QXX42A (3,600)	QZX42ADP (7,200)	1 29/32	3/4
1 7/16	—	—	QXX46A (3,600)	QZX46ADP (7,200)	2 1/16	7/8
1 1/2	—	QYX48A (2,400)	QXX48A (3,600)	QZX48ADP (7,200)	2 5/32	7/8
1 9/16	—	—	QXX50A (3,600)	QZX50ADP (7,200)	2 1/4	7/8
1 5/8	—	QYX52A (2,400)	QXX52A (3,600)	QZX52ADP (7,200)	2 11/32	7/8
1 3/4	—	—	QXX56A (3,600)	QZX56ADP (7,200)	2 17/32	1 1/32
1 13/16	—	—	QXX58A (3,600)	QZX58ADP (7,200)	2 5/8	1 1/32
1 7/8	—	—	—	QZX60ADP (7,200)	2 11/32	1 1/32
2	—	—	QXX64A (3,600)	QZX64ADP (7,200)	2 7/8	1 1/32
2 1/16	—	—	—	QZX66ADP (7,200)	2 21/32	1 3/16
2 1/8	—	—	—	QZX68ADP (7,200)	3 1/16	1 3/16
2 1/4	—	—	—	QZX72ADP (7,200)	3 7/32	1 3/16
2 1/2	—	—	—	QZX80ADP (7,200)	3 19/32	1 5/16

Value in parentheses is the Maximum Recommended Working Torque, in lb

Interchangeable Head, Click-Type

Open End Heads, mm

mm	J (0.425")	Y (0.560")	X (0.735")	Z (0.990")	O.D., mm	Head Depth, mm
6	QJOM6A* (60)	—	—	—	13.5	3.6
7	QJOM7A* (75)	—	—	—	13.5	3.6
8	QJOM8A* (120)	—	—	—	16.5	3.3
9	QJOM9A (170)	—	—	—	19.8	4.8
10	QJOM10A (265)	—	—	—	19.8	4.8
11	QJOM11A (400)	—	—	—	22.9	5.6
12	QJOM12A (430)	—	—	—	26.9	6.1
13	QJOM13A (495)	—	—	—	26.9	6.1
14	QJOM14A (665)	QYOM14A (665)	—	—	29.5	6.6
15	QJOM15A (885)	QYOM15A (885)	—	—	33.3	6.9
16	QJOM16A (900)	QYOM16A (1,060)	—	—	33.3	6.9
17	QJOM17A (900)	QYOM17A (1,235)	QXOM17A (1,235)	—	37.1	7.3
18	QJOM18A (900)	QYOM18A (1,375)	QXOM18A (1,375)	—	37.1	7.3
19	QJOM19A (900)	QYOM19A (1,650)	QXOM19A (1,650)	—	40.4	7.6
20	QJOM20A (900)	QYOM20A (1,925)	QXOM20A (1,925)	—	43.7	9.2
21	QJOM21A (900)	QYOM21A (2,160)	QXOM21A (2,160)	—	43.7	9.2
22	QJOM22A (900)	QYOM22A (2,400)	QXOM22A (2,470)	—	43.7	9.2
23	QJOM23A (900)	QYOM23A (2,400)	QXOM23A (2,745)	—	47	10
24	QJOM24A (900)	QYOM24A (2,400)	QXOM24A (2,970)	QZOM24ADP (2,970)	49	11
25	QJOM25A (900)	QYOM25A (2,400)	QXOM25A (3,570)	QZOM25ADP (3,295)	52	11
26	QJOM26A (900)	QYOM26A (2,400)	QXOM26A (3,570)	QZOM26ADP (3,570)	53	11
27	QJOM27A (900)	QYOM27A (2,400)	QXOM27A (3,600)	QZOM27ADP (3,825)	55	12
29	QJOM29A (900)	QYOM29A (2,400)	QXOM29A (3,600)	QZOM29ADP (4,550)	58	12
30	—	QYOM30A (2,400)	QXOM30A (3,600)	QZOM30ADP (4,950)	61	13
32	—	QYOM32A (2,400)	QXOM32A (3,600)	QZOM32ADP (5,755)	65	14
34	—	QYOM34A (2,400)	QXOM34A (3,600)	QZOM34ADP (6,595)	68	14
36	QJOM36A (900)	QYOM36A (2,400)	QXOM36A (3,600)	QZOM36ADP (7,200)	74	15



QJOM11A

Center of fastener to retaining pin:
 * QJOM Series - 2.50"
 * QYOM Series - 3.00"
 * QXOM Series - 4.50"
 * QZOM Series - 5.75"

Value in parentheses is the Maximum Recommended Working Torque, in lb
 *Use with QC1P100 and QC1200 Torque bodies only; other heads may be used with all listed torque bodies.

Open End Heads, inches

in	J (0.425")	Y (0.560")	X (0.735")	Z (0.990")	O.D., inches	Head Depth, inches
1/4	QJ08A* (55)	—	—	—	17/32	9/64
5/16	QJ010A (110)	—	—	—	21/32	11/64
3/8	QJ012A (220)	—	—	—	25/32	11/64
7/16	QJ014A (310)	—	—	—	29/32	11/64
1/2	QJ016A (410)	QY016A (410)	—	—	1 1/16	11/64
9/16	QJ018A (695)	QY018A (695)	—	—	1 1/16	11/64 [QJ018A = 9/32]
5/8	QJ020A (835)	QY020A (835)	—	—	1 5/16	11/64 [QJ020A = 9/32]
11/16	QJ022A (900)	QY022A (1,185)	—	—	1 7/16	11/64 [QJ022A = 5/16]
3/4	QJ024A (900)	QY024A (1,500)	QX024A (1,500)	—	1 19/32	11/64 [QJ024A = 11/32]
13/16	QJ026A (900)	QY026A (2,310)	QX026A (1,965)	—	1 23/32	3/8
7/8	QJ028A (900)	QY028A (2,310)	—	—	1 23/32	3/8
15/16	QJ030A (900)	QY030A (2,400)	QX030A (2,400)	—	1 29/32	13/32
1	QJ032A (900)	QY032A (2,400)	QX032A (3,575)	QZ032ADP (3,575)	2 1/32	7/16
1 1/16	QJ034A (900)	QY034A (2,400)	QX034A (3,600)	—	2 3/16	15/32
1 1/8	QJ036A (900)	QY036A (2,400)	QX036A (3,600)	QZ036ADP (4,400)	2 5/16	15/32
1 3/16	—	QY038A (2,400)	QX038A (3,600)	QZ038A (5,200)	2 7/16	1/2
1 1/4	QJ040A (900)	QY040A (2,400)	QX040A (3,600)	QZ040ADP (5,775)	2 9/16	17/32
1 5/16	—	QY042A (2,400)	QX042A (3,600)	QZ042A (5,600)	2 21/32	9/16
1 3/8	QJ044A (900)	QY044A (2,400)	QX044A (3,600)	QZ044ADP (7,200)	2 3/16	19/32
1 7/16	—	QY046A (2,400)	QX046A (3,600)	QZ046ADP (7,200)	3	19/32
1 1/2	QJ048A (900)	QY048A (2,400)	QX048A (3,600)	QZ048ADP (7,200)	3 1/16	5/8
1 9/16	—	QY050A (2,400)	QX050A (3,600)	QZ050ADP (7,200)	3 3/16	21/32
1 5/8	—	QY052A (2,400)	QX052A (3,600)	QZ052ADP (7,200)	3 11/32	11/16
1 11/16	—	—	QX054A (3,600)	QZ054ADP (7,200)	3 13/32	23/32
1 3/4	—	—	QX056A (3,600)	QZ056ADP (7,200)	3 9/16	23/32
1 13/16	—	—	QX058A (3,600)	QZ058ADP (7,200)	3 21/32	13/32
1 7/8	—	—	QX060A (3,600)	QZ060ADP (7,200)	3 13/16	25/32
2	—	—	QX064A (3,600)	QZ064ADP (7,200)	4 1/16	27/32
2 1/16	—	—	QX066A (3,600)	QZ066ADP (7,200)	4 3/16	27/32
2 1/8	—	—	—	QZ068ADP (7,200)	4 5/16	5/8
2 1/4	—	—	—	QZ072ADP (7,200)	4 9/16	15/16
2 1/2	—	—	—	QZ080ADP (7,200)	5 1/16	1



QJ028A

Center of fastener to retaining pin:
 * QJO Series - 2.50"
 * QYO Series - 3.00"
 * QXO Series - 4.50"
 * QZO Series - 5.75"

Value in parentheses is the Maximum Recommended Working Torque, in lb
 *Use with QC1P100 and QC1200 Torque Bodies only; other heads may be used with all listed torque bodies.



WARNING



• Do not exceed rated torque • Do not use to break fasteners loose
 • Periodic recalibration is necessary to maintain accuracy • Read safety precautions on pages W1 to W4

TORQUE

Interchangeable Head, Click-Type

Flare Nut Heads, 6 Point, mm

mm	Shank Dia. J (0.425")	Shank Dia. Y (0.560")	O.D., mm	Head Depth, mm
10	QJRXSM10A (400)	—	20	8
11	QJRXSM11A (500)	—	21	9
12	QJRXSM12A (600)	—	22	9
13	QJRXSM13A (700)	—	24	9
14	QJRXSM14A (740)	—	25	10
16	—	QYRXSM16A (900)	27	11
17	QJRXSM17A (900)	QYRXSM17A (1,000)	29	11
18	QJRXSM18A (900)	QYRXSM18A (1,125)	30	12
19	QJRXSM19A (900)	QYRXSM19A (1,250)	32	12
20	—	QYRXSM20A (1,350)	33	13

Value in parentheses is the Maximum Recommended Torque, in lb



QJRX18A

Center of fastener to retaining pin:

QJRXS Series - 2.50"

QYRXS Series - 3.00"

QJRXSM Series - 2.50"

QYRXSM Series - 3.00"

QJRX Series - 2.50"

QYRX Series - 3.00"

QJRO Series - 2.50"

QYRO Series - 3.00"

QJROM Series - 2.50"

QYROM Series - 3.00"

Flare Nut Heads, 6 Point, inches

	Shank Dia. J (0.425")	Shank Dia. Y (0.560")	O.D., inches	Head Depth, inches
7/16	QJRXS14A (500)	—	27/32	11/32
5/8	QJRXS20A (720)	QYRXS20A (950)	1 3/32	7/16
11/16	QJRXS22A (720)	QYRXS22A (1,100)	1 5/32	15/32
3/4	QJRXS24A (720)	QYRXS24A (1,245)	1 1/4	1/2
13/16	QJRXS26A (720)	QYRXS26A (1,400)	1 9/16	17/32
7/8	QJRXS28A (720)	QYRXS28A (1,600)	1 13/32	9/16
15/16	QJRXS30A (900)	QYRXS30A (1,750)	1 1/2	19/32
1	QJRXS32A (900)	QYRXS32A (1,900)	1 9/16	5/8
1 1/8	—	QYRXS36A (2,200)	1 3/4	11/16

Value in parentheses is the Maximum Recommended Working Torque, in lb

Flare Nut Heads, 12 Point, inches

	Shank Dia. Y (0.560")	O.D., inches	Head Depth, inches
9/16	QYRX18A (800)	1	13/32
5/8	QYRX20A (950)	1 3/32	7/16
3/4	QYRX24A (1,245)	1 1/4	1/2
13/16	QYRX26A (1,400)	1 11/32	17/32
7/8	QYRX28A (1,600)	1 13/32	9/16
15/16	QYRX30A (1,750)	1 1/2	19/32
1	QYRX32A (1,900)	1 19/32	21/32
1 1/16	QYRX34A (2,050)	1 21/32	11/16
1 1/8	QYRX36A (2,200)	1 3/4	23/32
1 3/16	QYRX38A (2,400)	1 7/16	3/4
1 1/4	QYRX40A (2,400)	1 29/32	25/32

Value in parentheses is the Maximum Recommended Torque, in lb

Geared Head Multipliers



YA391



YA394

Geared Head Multipliers

- Some models feature a replacement square drive to protect components by automatically shearing when rated output is exceeded by 3 to 10%
- All models include an input/output conversion chart in ft lb and N•m

Specifications	YA290PLUS	YA300	YA391	YA292	YA392	YA393	YA394	YA395
Reaction Type	Bar	Bar	Bar	Bar	Bar	Bar	Plate	Plate
Output Capacity, ft lb	750	1,000	1,200	2,000	2,200	3,200	5,000	8,000
Input Capacity, ft lb	227	303	200	500	162	173	189	154
Gear Ratio	4:1	4.0:1	6.3:1	4.27:1	15.0:1	20.25:1	29.25:1	60.0:1
Torque Ratio	3.3:1	3.3:1**	6.0:1*	3.7:1**	13.6:1*	18.5:1*	26.5:1*	52.0:1*
Reductions	1	1	1	2	2	3	2	2
Input Drive Female Square, inches	1/2	1/2	1/2	3/4	1/2	1/2	1/2	1/2
Output Drive Male Square, inches	3/4	3/4	3/4	1	1	1	1 1/2	1 1/2
Bearings			Needle		Needle	Needle	Needle	Needle
Length, inches	8 3/4	17 1/2	20	19 1/2	20	20	15	15 1/2
Width, inches	2 3/4	2 13/16	4	4 1/2	4	4	8 5/8	6
Height, inches	3 1/4	3 5/16	4 1/16	3 3/4	5 13/16	6 1/2	8 3/4	10 3/4
Storage Case	Yes		Yes		Yes	Yes	Yes	Yes
Angle Protractor			Yes		Yes	Yes		
Anti Backlash					Yes	Yes	Yes	Yes
Replacement Square Drive			YA391RK		YA392RK	YA393RK	YA394RK	YA395RK

*Accuracy of Torque Ratio is ±5%.

**Accuracy of Torque Ratio is ±10%.

Handle or other anchor plate serves as a "reaction bar" and must be placed against a strong fixed object.



YA390

YA390 Reversible Air Motor.

- Provides up to 200 ft lb of input power for each of the YA Series gear Multipliers
- Output drive: 1/2"
- Maximum operating air pressure: 60 PSI
- Free speed: 70 RPM, Dimensions: 16 1/4" x 3 1/8" x 4 3/4"

Geared Head Multipliers

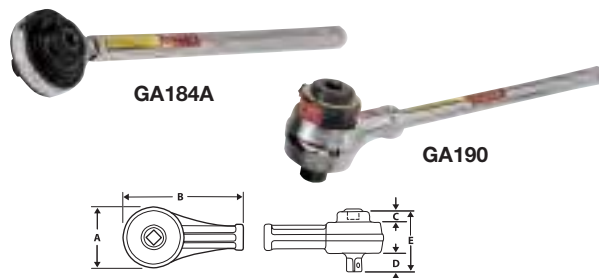
Geared Head Multipliers X4 Models

- Use singularly or stack up to 3 X4 models
- Stacking multiplies torque ratios; resulting torque can be considerable
- Only the torque ratio changes; total capacity is equal to and does not exceed the capacity of the largest wrench in the stack

Specifications	GA184A	GA185	GA190
Reaction Type	Bar	Bar	Bar
Output Capacity, ft lb	1,000	2,000	2,000
Input Capacity, ft lb	294	588	588
Gear Ratio	4.0:1	4.0:1	4.0:1
Torque Ratio	3.4:1**	3.4:1**	3.4:1**
Reductions	1	—	1
Input Drive Female Square, inches	1/2	3/4	3/4
Output Drive Male Square, inches	3/4	1	1
Dimension A, O.D., inches	3 1/2	3 3/4	3 3/4
Dimension B, Length, inches	6 5/8	6 5/8	6 5/8
Dimension C, Head Height, inches	1/2	3/4	1 1/2
Dimension D, Drive End Height, inches	3/4	1	1
Dimension E, Overall Height, inches	3 11/32	4 3/8	5
Overall Length, inches	22	25	25
Anti Backlash	—	—	Yes

**Accuracy of Torque Ratio is $\pm 10\%$.

Handle or other anchor plate serves as a "reaction bar" and must be placed against a strong fixed object.



Electronic Dial Type Torque Wrenches

- Great for worldwide automotive, nuclear, military and industrial markets
- Digital accuracy is $\pm 1\%$ from 20 to 100% of full scale in both directions
- 3 step LED visual signal system: Over torque alarm (Red), Approaching target warning signal when getting close (Yellow at 90% of target), and target achieved signal when desired torque is obtained (Green)
- Secondary audible alarm goes off when desired torque is reached



ED2600

Stock No.	Square Drive, inches	in lb	ft lb	N•m	kg cm	Length, inches (mm)	Weight, lbs (kgs)
ED1050 †	1/4	5-50	.42-417	.56-5.65	57-57.61	11.5 (292)	1.25 (57)
ED2250 †	3/8	25-250	2.08-20.83	2.82-28.25	28-280.03	14.5 (368)	1.51 (66)
ED2600 †	3/8	60-600	5-50	6.79-67.79	69-691.27	14.5 (368)	1.51 (66)

† C E

- Largest storage capacity available: memory stores up to 4,000 torque values
- Downloading capability: individual torque values and store values in memory may be directly downloaded to a printer or data logger via an RS-232 connection
- Selectable modes of operation: "peak hold" and "track" modes of operation are standard
- Range: available from 5 in lb to 600 ft lb engineering units can be selected through the keypad (in oz, in lb, ft lb, N•m, dN•m, k gm, and kg cm)
- Accuracy: $\pm 1\%$ from 10 to 100% of scale
- Quality Construction: proven industrial quality
- 9 V alkaline battery included

Electrotork Torque Wrenches

- All Electrotork® electronic torque wrenches are designed for continuous use
- High degree of accuracy, clockwise or counterclockwise regardless of handhold position
- Easy to read scales and sealed membrane keypad enhance operator usefulness
- Each wrench includes a storage case

Stock No.	Square Drive, inches	Range	Increments	Length, inches
QCE115A	1/4	5-50 in lb, 5.6-56 dN•m, 5.7-57 kg cm, 80-800 in oz	.01 in lb, .01 dN•m, .01 kg cm, .10 in oz	13 1/2
QCE215A	3/8	25-250 in lb, 28-282 dN•m, 29-288 kg cm	.01 in lb, .10 dN•m, .10 kg cm	14 7/8
QCE225A	3/8	5-50 ft lb, 68-677 dN•m, 69-691 kg cm, 60-600 in lb	.01 ft lb, .10 dN•m, .10 kg cm, .10 in lb	14 7/8
QCE325A	1/2	25-250 ft lb, 34-338 N•m, 3.4-34 kg m	.10 ft lb, .10 N•m, .01 kg m	21 1/2
QCE425A	3/4	60-600 ft lb, 81-813 N•m, 8.3-83 kg m	.10 ft lb, .10 N•m, .01 kg m	46 1/2

The certification of accuracy provided per ASME® and ISO® Standards is 20 to 100% of full scale.

P11350 Optional PC download cable is available.

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration. (unless otherwise indicated)

All wrenches and drivers are calibrated per ASME and ISO standards for accuracy, from 20 to 100% of full scale, using NIST® traceable equipment.



WARNING



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

Electronic Torque Wrenches

Features:

- Display can be turned 180° to allow left hand usage
- 4 units of measurement on the same torque wrench: in lb, ft lb, N•m, Kg cm
- Large 2" easy to read single scale eliminates confusion on conversion scales
- Tough polycarbonate body ensures durability
- Comfort cushion grip reduces strain for prolonged use
- Rubber boot protects work piece
- The durable, composite and steel body beam provides years of accurate service
- Packaged in storage box for maximum protection
- 9 V battery with long life and easy replacement, 80 hours
- Battery cover designed to be FOD proof



QCE215A

TORQUE

Torque Testers



QC3DTT250

Digital Torque Tester™ (DTT)

The Snap-on® *Digital Torque Tester (DTT)* is designed to be a low cost torque tester that can be mounted on a wall or in a bench top vise to allow operator to conveniently test torque wrenches and torque screwdrivers. It features an easy to use touch pad screen to capture peak torque values during a test in real time and download stored torque data to a PC. All DTT torque testers are sold in a kit with the complete tester, ac/dc power supply, USB cable adaptor and carrying case. The fast and accurate *Snap-on Digital Torque Tester (DTT)* Torque testing device. Also includes test adaptor

- Easy to use touch screen
- Intuitive screen layout
- Testing options: quick check or ASME® style test
- Refresh rate of 1,000 data points per second
- Fast change of units or target torque
- Record and track torque wrench test results by serial number
- Choose your wrench type
- Adds traceability by using wrench serial numbers and technician I.D.
- Color coded numbers indicate a low, good and high torque readings
- Color bar at the top allows the user to see progress relative to the target torque
- Data can be stored for download later on your computer via USB

Specifications	QC1DTT10	QC1DTT50	QC2DTT250	QC3DTT250	QC4DTT600
Sq. Drive, inches	1/4	1/4	3/8	1/2	3/4
Range, English	10-100 in oz	5-50 in lb	25-250 in lb	25-250 ft lb	60-600 ft lb
Range, Nm	.07-.706 Nm	.57-5.6 Nm	2.9-28.2 Nm	33.9-338.9 Nm	81.3-813.4 Nm
Accuracy	±0.50% ±1 count 10% CW & CCW of indicated test value@ 25 C				
Units of Measure	Nm, kgcm, ft lb, in lb, in oz				
Operation Modes	TRACK, PEAK, FIRST PEAK				
Operating Temperature	10 to 32 C (50 to 90 F)				
Storage Temperature	-20 to 50 C (-2 to 122 F)				
Humidity	85% Relative Humidity @ 21 °C (70 °F)				
Power Supply	Included 9 V ac/dc adaptor, 6 AA batteries included				
Data/Storage/Recall	Memory Capacity - 500 records (complete check mode only)				

Electronic Torque Testers



QC1ETT50

Electronic Torque Tester™

Designed to be a sturdy, low cost tester, these electronic torque testers can be placed on the wall in the factory or on a bench to allow operators to test torque wrenches or power tools without having to leave their station.

- Track and peak modes
- Can be used with nonimpacting power tools (joint rate simulators required)
- Dual scale (English/N•m or English/dN•m)
- Reads bidirectional (clockwise and counterclockwise)
- Uses rechargeable Ni-Cad batteries (2 Ni-Cad 9 V). Charger included

Stock No.	Square Drive, inches	Range, English	Range, N•m
QC1ETT10	1/4	10-100 in oz	7.0-70.6 cN•m
QC1ETT400	1/4	40-400 in oz	28-280 cN•m
QC1ETT50	1/4	5-50 in lb	5.6-56 dN•m
QC1ETT100	1/4	10-100 in lb	11.3-113 dN•m
QC2ETT250	3/8	25-250 in lb	28-280 dN•m
QC2ETT1000	3/8	100-1,000 in lb	113-1,130 dN•m
QC3ETT250	1/2	25-250 ft lb	34-339 N•m
QC4ETT600	3/4	60-600 ft lb	81-813 N•m

The certification of accuracy provided per ASME and ISO® Standards is 10 to 100% of full scale.

All Snap-on torque wrenches, drivers and testers are provided with a Certificate of Calibration. (unless otherwise indicated)
All wrenches and drivers are calibrated per ASME and ISO standards for accuracy, from 20 to 100% of full scale, using NIST® traceable equipment.

Versatorq® Torque Metering/Data Acquisition System

The *Versatorq* system can be used for any job requiring repetitive torque applications or regular inspection of fastener torque. This system can also be used to verify pneumatic and mechanical torque wrench accuracy. Peak torque can be captured by using a rotary sensor with a non-impact power tool operating at less than 1,000 RPM and being driven into a soft joint. Inspectors can check critical fastener torque and record data for quality audits. Perfect for process quality control. The *Versatorq* system can internally perform statistical analysis, including histograms, and print to a serial printer.

- **Versatile** - battery operated and lightweight, with available ranges from 2 to 20 in oz to 150 to 1,500 ft lb and 7 units of measure: in oz, in lb, ft lb, N•m, d•Nm, kgm, and kgcm. The *Versatorq* system can be used with sockets, extensions, universal joints, ratcheting drivers or any of these combined
- **Data Acquisition** - store and recall up to 3,500 readings. An internal memory backup battery retains setup and last memory data for up to 10 years
- **Track or Peak Mode** - track mode displays applied torque value and peak mode displays highest torque value
- **Easily Calibrated** - customer calibration supports ISO9000. Instructions for step by step calibration provided in the users manual
- **Smart Sensors** - built in EEPROM memory chip stores sensor identification and calibration factors. Factory calibrated, a sensor retains its accuracy with all *Versatorq* meters; just plug in the desired sensor. Periodic recalibration is necessary
- **120VAC/220VAC, 60 Hz Adaptor** - rechargeable battery and belt clip allow you to take it to the task or use it at the bench with the optional table stand and AC adaptor
- **PC Statistical Analysis Output** - download histogram, minimum and maximum reading, mean, sigma N, sigma, Cp, Cpk, % error and number of readings under and over tolerance
- **Serial Port Interface with Computer or Printer** - true RS-232 communications port for downloading to computer or serial printer or configurable to MITUTOYO statistical printer protocol
- **Visual and Audio Cues** - analog bar graph at top of display provides a live indication of applied torque. An OVER warning flag comes on to indicate that maximum sensor range has been exceeded. Green MIN LED indicates lower tolerance has been achieved, and Red MAX LED indicates upper tolerance has been exceeded. Audio alarm produces a distinctive 2 kHz tone. Includes an audio output jack for optional headphones in a noisy environment

Versatorq1® System Specifications

Specifications	Description
VERSATORQ1	120 V ac Charger, and Carrying Case. Basic Torque Acquisition Meter
Display	4 digit with alpha and numeric function flags
Display Capacity*	± 4 digits, 8,000 counts
Accuracy	±1% of Reading (10 to 100% of Sensor Range) (± 2% with VERSA1S10 and VERSA1S20 Sensors)
Push-Button Keypad	MIN/MAX Alarm, ZERO TARE, SET-UP, UNITS, STORE/RECALL/CLEAR, SEND, STATISTICS, ENTER
Units Of Measure	in oz, in lb, ft lb, N•m, dN•m, kg•m, kg•cm
Operating Temperature	5 °C to 42 °C (40 °F to 110 °F)
Storage Temperature	-10 °C to 50 °C (-2 °F to 12 °F)
Humidity	Up to 90%, non-condensing
Dimensions	3" W, 2.5" H (3" with belt clip), 6" D
Weight	1 lb
Charge Life (full charge to shutoff)	20 hours continuous
Battery Charger	120 V ac or 220 V ac, 50-60 Hz
Data Storage/Recall	3,500 measurements
Battery Charger Output	9 V dc, 200 mA
Serial Output Port - VERSATORQ1	RS-232 (True), 300-19.2K baud and Mitutoyo (statistical protocol)
Statistical Analysis - VERSATORQ1	MAX, MIN, Sigma, Cp, Cpk, % Error, -No o, +No o
Histogram - VERSATORQ1	Lower set limit, upper set limit, 10 divisions

*Versatorq display ignores torque input less than .5% of full scale in track mode and 2.0% of full scale in peak mode.

Please reference the *Versatorq* instruction manual for the sensor ranges and resolutions in different units of torque measurement.

Versatorq Sensors

Stock No.	Square Drive, inches	Range	Sensor Diameter, inches	Sensor Length, inches	Cable Length, inches
VERSA1S20*	1/4	2-20 in oz	.5	2.9	48
VERSA1S10*	1/4	1-10 in lb	.7	2.9	48
VERSA1S50	1/4	5-50 in lb	.9	2.1	48
VERSA1S200	1/4	20-200 in lb	.9	2.1	48
VERSA2S100	3/8	10-100 ft lb	1.2	2.4	48
VERSA3S250	1/2	25-250 ft lb	1.4	2.6	48
VERSA4S600	3/4	60-600 ft lb	2.0	3.9	96
VERSA5S1500**	1	150-1,500 ft lb	2.4**	4.4	92

*Knurled handles allow for fingertip control.

**Diameter does not include side mounted connector.

Heavy duty coiled cord with 4 pin MS style connector.

VERSATORQ1
Torque Acquisition Meter
Includes VERSACHARGE1
charger and PB57A case.
Sensors sold separately.



Versatorq System Accessories

Stock No.	Description
VERSACHARGE1	Power Pack, 120 V ac to 9 V dc
VERSACABLE	RS-232 Serial Printer Cable
VERSACABLE2	PC Interface Cable
PB57A	Carrying Case



VERSA2S100



WARNING



- Do not exceed rated torque • Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy • Read safety precautions on pages W1 to W4

TORQUE

Versatest™ Electronic Torque Tester



VERSATEST

The *Versatest* Indicator is a laboratory grade instrument used for precise, in house torque wrench testing and calibration. High precision torque transducers provide system readings with an accuracy of $\pm 0.25\%$ of indicated value. Transducers are available in ranges from 15 to 200 in oz to 200 to 2,000 ft lb and feature a special built in memory chip that identifies the range and maintains the calibration between all *Versatest* Indicators. Setup and calibration programming is entered via front panel membrane keys. The *Versatest* can store and recall up to 3,000 different torque/force readings. Statistical analysis stored in memory can be downloaded to a computer or serial printer. A hard wired lithium battery keeps the internal memory and the date/time clock operating for up to 10 years.

Versatest Specifications

Specifications	Description
Display	Large 5.5" x 1.5" backlit LCD graphics display (240 x 64 dot matrix, 0.67" torque digits character height)
Capacity	5 significant digits $\pm 32,000$ counts (16 bit A/D)
Sample Rate	2,000 samples per second
Display Rate	5 updates per second
Accuracy*	$\pm 0.25\%$ OF READING AT 25 C (with TTC Transducer calibration)
Temperature Drift	+ 0.03% / °C (+0.017% / °F)
Bar Graph	100 segment analog of applied torque scaled to Limits Set value
Units Of Measure	in oz, in lb, ft lb, N•m, dN•m, kg cm and kg m
Modes	TRACK, PEAK HOLD, FIRST PEAK, POWER TOOL
Soft Key User Interface	Units, Calibration, Date/Time, Statistics, Hi/Low Limits Set, Data Store, Data Recall, Printer Setup, Zero, Auto/Manual Store/Send/Clear
Select Keys	Increment, Decrement, Shift Left, Shift Right, Enter
Operating Temperature	10 to 32 °C (50 to 90 °F)
Storage Temperature	-20 to 50 °C (-2 to 122 °F)
Humidity	85% Relative Humidity @ 21 °C (70 °F)
Dimensions	10" wide x 4" high x 10.5" deep (including carry handle)
Power Supply	Auto Switching 100 V AC-24 V AC, 50/60 Hz, 50 W
Data Storage/Recall	3,000 Measurements
Statistical Analysis	Max, Min, Range, Mean, Sigma N, Sigma, Cp, Cpk, % Error, -NoGo, +NoGo
Histogram	Lower Set Limit, Upper Set Limit, 10 Divisions
Printer/Computer Serial Output Port	RS232 (True), 300-19.2K Baud
Computer Serial Com Port	RS232 (True), 300-19.2K Baud
Analog Output	+(CW)/-(CCW) 1.8V at Transducer Full Range Linearity, $\pm 1\%$ of reading
Loader Control Relays	Two, Normally Open, Form A, Rated 12 V DC @ 1/2A close contact at 110% CW or CCW or torque/force transducer range

Refer to Transducer Chart on pg 245 for additional information.

Features:

- Automatic downloading
- RS232C serial port - use with printer or PC
- Data storage/recall (with date/time stamp) holds up to 3,000 measurements
- Real time clock
- Smart transducers
- Analog output: connect to oscilloscope or X-Y plotter
- External printer can be mounted on top of the *Versatest* unit
- Remote foot switch interface for send/print functions
- Four modes: TRACK, PEAK HOLD, FIRST PEAK, POWER TOOL
- Statistic Process Control (SPC) built in



VERSA600LDR2

VERSATEST600 Electronic Torque Metering System.

Provides high speed monitoring of static and dynamic torque inputs. Includes the *Versatest* indicator, VERSA600LDR2 loader, TTC12 transducer, TTC400 4-in-1 transducer and TTC5000-1 4-in-1 adaptor plate.

VERSA600LDR2 Mechanical Loader. Unit will load dial, micrometer, beam and electronic torque wrenches. Maximum capacity of 600 ft lb Use with any TTC series transducer from 15 in oz to 600 ft lb

Accessories

TTC3421	Table Mounting Bracket for Transducers up to 1,000 in lb
TTC3422	Table Mounting Bracket for Transducers from 125-600 ft lb
CDI200015003	Table Mounting Bracket for Transducers from 1,000-2,000 ft lb
TTC501	Connects TTC610 Digital Indicator to PC
TTC502	Connects TTC610 Digital Indicator to printer
TTC75006	Torque Screwdriver Testing Kit

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration. (unless otherwise indicated)

All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20 to 100% of full scale, using NIST® traceable equipment.

TTC2000 Electronic Torque Tester™

- Automatic sensor recognition with TTC series Smart transducers
- Range: 15 in oz to 2,000 ft lb (bidirectional)
- Total uncertainty (10% to 100% of range): $\pm 0.25\%$ of indicated torque value
- Alpha numeric 8 digit display
- Memory to 3,000 values
- Includes low profile serial printer
- Date and time stamp for stored values
- Statistical analysis performed on stored data
- Programmable manual or automatic options for clear, store and print functions
- Recall and review of stored torque values
- Modes: TRACK, PEAK, FIRST PEAK and POWER TOOL
- Optional angle encoder
- RS232C port is standard
- Analog output is standard
- Full digital circuitry
- 8 torque measurement units: in oz, in lb, ft lb, cN•m, dN•m, N•m, kg cm and kg m
- Automatic lock up for transducer protection
- Automatic zero
- Automatic transducer recognition
- Operates on 120 V AC or 240 V AC



TTC2800

TTC2000/TTC2800 System Specifications

TTC2000 Manual Loader System	Torque/Force Display	Eight digit, alpha-numeric, super bright red LED, 0.55 inch character height
	Capacity	8 digits $\pm 32,000$ counts (16 bit A/D)
	Accuracy*	$\pm 0.25\%$ of reading at 25 °C (with TTC Transducer calibration)
	Temperature Drift	+ 0.03% / C (+ 0.017% / F)
	Units Of Measure	TORQUE: ft lb, in lb, in oz, N•m, dN•m, kg cm and kg m; FORCE: lbf, ozf, N, dN, kp and gf
	Maximum Range Display	2-line x 16 character 5 x 8 dot-matrix LCD used for MAX. Transducer range, Units, Angle, Calibration, Date/Time, Statistics, Torque/Force or Torque/Angle Limits Set, Data Store/Recall, Printer Set Up
	Modes	Track, Peak Hold, Angle, First Peak, Power Tool
	Operating Temperature	10 to 32 °C (50 to 90 °F)
	Storage Temperature	-20 to 50 °C (-2 to 122 °F)
	Humidity	Up to 90%, Noncondensing
	Power Supply	120 V AC $\pm 10\%$, 50/60 Hz @ 3.14 A (including motor current)
	Data Storage/Recall	3,000 Measurements
	Statistical Analysis	Max, Min, Range, Mean, SigmaN, Sigma, Cp, Cpk, % Error, -No o, +No o
	Histogram	Lower Set Limit, Upper Set Limit, 10 Divisions
	Printer/Computer Serial Output Port	RS232 (True), 300-19.2K Baud
	Computer Serial Com Port	RS232 (True), 300-19.2K Baud (Optional)
	Analog Output	+(CW)/-(CCW) 1.8 V at Transducer Full Range Linearity, $\pm 1\%$ of reading
Loader Control Relays	Two, Normally Open, Form A, Rated 12 V DC @ 1/2 A close contact at 110% CW or CCW or torque/force transducer range	
Loader Hand Crank	Input torque 8 ft lb Maximum, Output Torque 2,000 ft lb Maximum	
TTC2800 Motorized Control Loader System	Motorized Loader Modes	Manual; Auto Dial; Auto 1st Peak
	Motorized Loader Power Supply	120 V AC $\pm 10\%$ Hz @ 3.14 A (including motor current); (optional step down transformer for 240 V AC operation)

TTC2000/TTC2800 System Components

	Stock No.	Description	Application
TTC2000 Components	TTC600	Mechanical Loader	Applies load to torque wrenches for testing on TTC2000. Includes loader, torque indicator stand, torque pin, protective shield, small transducer adaptor and power cord. 45" W x 24" D x 9.5" H
	TTC610	Digital Indicator	Torque tester for the TTC2000 System.
	KRA2411PDC	Roller/Storage Cabinet	Used to mount TTC600/TTC610 (TTC2000) or TTC800/TTC810 (TTC2800) and store accessories. Not available individually
TTC2800 Components	TTC800	Motorized Loader	Applies load to torque wrenches for testing on TTC2800 System
	TTC810	Digital Indicator	Torque Tester for the TTC2800 System
	KRA2411PDC	Roller/Storage Cabinet	Used to mount TTC600/TTC610 (TTC2000) or TTC800/TTC810 (TTC2800) and store accessories. Not available individually

All Snap-on® torque wrenches, drivers and testers are provided with a Certificate of Calibration. (unless otherwise indicated)

All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20 to 100% of full scale, using NIST® traceable equipment.



WARNING



- Do not exceed rated torque • Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy • Read safety precautions on pages W1 to W4

TORQUE

Electronic Torque Tester and Calibrator



Transducers

All TTC series transducers include the correct adaptor for the indicated torque range.

Stock No.	Description	Sq. Drive Size	Range	Bench Top Mounting Bracket
TTC4	Transducer	1/4	5-50 in oz	TTC3421
TTC5	Transducer	1/4	15-200 in oz	TTC3421
TTC6	Transducer	1/4	4-50 in lb	TTC3421
TTC65	Transducer	1/4	15-150 in lb	TTC3421
TTC7	Transducer	3/8	30-400 in.lb.	TTC3421
TTC8	Transducer	3/8	80-1,000 in lb	TTC3421
TTC10	Transducer	1/2	10-125 ft lb	TTC3422
TTC11	Transducer	1/2	20-250 ft lb	TTC3422
TTC12	Transducer	3/4	60-600 ft lb	TTC3422
TTC13	Transducer	1	100-1,000 ft lb	TTC15002
TTC14	Transducer	1	200-2,000 ft lb	TTC15002
TTC400*	4-in-1 Transducer	1/4 3/8 3/8 1/2	4-50 in lb 30-400 in lb 80-1,000 in lb 20-250 ft lb	
TTC5000-1**	4-in-1 Adaptor Plate			

*TTC400 requires the TTC5000-1 adaptor plate when used with the TTC600 manual loader, TTC800 motorized loader and VERSA600LDR

**Required for TTC400 4-in-1 torque transducer to be used on TTC600/TTC800 loaders.

Calibration Wheels/Arms

Use to calibrate any TTC series transducer. Arms are certified to manufacturer s standards.

TTC500	2.5" Calibration Wheel, 1/4" square drive
TTC1510	5" Calibration Wheel, 1/4" drive (includes 3/8" adaptor)
TTC1520	10" Calibration Butterfly, 1/2" square drive
TTC1540	40" Calibration Arm, 1 1/4" square drive (includes 3/4" adaptor)



Accessories

Stock No.	Description
TTC501	Connects TTC610 Digital Indicator to PC
TTC502	Connects TTC610 Digital Indicator to printer
TTC25002	Free standing calibration stand with mounting block and hardware for use with TTC2000/TTC2800 Systems and all TTC Series Transducers
TTC75002	Torque Screwdriver Testing Kit
TTC5500-1	Extension Arm (required for wrenches longer than 45")



QC2JRS400

Joint Rate Simulator Adaptors

- Use with torque tester when testing nonimpacting power tools
- Square drive adaptor is placed on top of square drive of the torque tester and tightened with a set screw
- Adaptor bit is inserted into the power tool and mated to the top of the joint adaptor
- By stacking the Belleville washers in set patterns, the joint rate adaptor can simulate soft, medium, or hard joints

Stock No.	Square Drive, inches	Capacity, in lb	Adaptor Bit	Load Screw
QC1JRS50	1/4	50	1/4" Hex x 3/16" Hex	1/4" x 28 x 1
QC2JRS400	3/8	400	3/8" Square Internal x 3/8" Hex	7/16" x 20 x 1.5
QC2JRS1000	3/8	1,000	3/8" Square Internal x 1/2" Hex	5/8" x 18 x 1.5



Force Testing Equipment

- Reaction arms, cables, mounting plates and fixtures are available for testing tensiometers plus compression and tension gauges. The TTC600 and TTC800 loaders and TTC series transducers can be configured to deliver compression and tension loads
- The TTC610/TTC810 indicator also provides measurement, display, storage and statistical analysis for FORCE inputs

TTC2600	Tensiometer Testing Kit
TTC2610	Tension Gauge Testing Kit
TTC2620	Compression Gauge Testing Kit
TTC26302	Force Arm Kit (Only one is needed for any Force Testing Kit)

Weight Sets

Use to calibrate any TTC series transducer. All weights are NIST (NBS) traceable.

TTC3200	Weight Set #1 (Use for all TTC Series Transducers)
TTC3210	Weight Set #2 (For 200 in oz to 250 ft lb TTC Series Transducers)
TTC3220	Weight Set #3 (For 600 ft. lb To 2,000 ft lb TTC Series Transducers)



TTCWEIGHTS

Weight Hangers/Trays

Use to calibrate any TTC series transducer. Weight trays certified as to weight.

TTC301	Weight Hanger, 8 oz
TTC3040	Weight Tray, 7.5 lb
TTC3020	Weight Tray, 15 lb
TTC3030	Weight Tray, 50 lb

Electronic Bench Top Torque Testers

Horizontal Torque Testers and Transducers

TBT600A Horizontal Torque Tester.

- Designed to be a complete and flexible calibration solution
- Peak hold feature incorporates hands free mode to increase efficiency
- Certificate generation function allows unit to print certifications directly to a printer or computer
- NTEP® certified scale is independently traceable to NIST® standard Handbook 44 and stored data of tester calibration for auditing purposes



TBT600A

Transducers(optional)

Stock No.	Description	Range	Resolution
TBTT16A	Transducer	7.5 to 200 in lb	.002 ft lb, .02 in lb, .025 in oz, .002 N•m., .0002 kg m., .02 kg cm
TBTT100A	Transducer	5 to 100 ft lb	.01 ft lb, .1 in lb, 2 in oz, .01 N•m., .001 kg m., .1 kg cm
TBTT600A	Transducer	30 to 600 ft lb	.05 ft lb, .5 in lb, 10 in oz, .1 N•m., .01 kg m., .1 kg cm



TCR175



TCR600

Torque Comparators

TCR175 Torque Comparator.

- To determine if a torque wrench requires calibration to maintain proper application of torque
- Large and easy to read dial and simple operation makes the tester quick and easy to use for everyday verification of torque calibration
- 1/2" female square drive input and 175 ft lb capacity with 5 ft lb graduations and 230 N•m capacity with 10 N•m increments is a perfect fit for the most popular torque wrenches
- Integrated exercise adaptor makes it easy to break in simple, providing the most accurate results (as per B107-300 standard)
- 2% accurate within $\pm 2\%$ of the reading from 20% of full scale to full scale clockwise and counterclockwise
- Can check a 3/8" drive torque wrench by using an A2A or AF2A adaptor

TCR600 Torque Comparator.

Similar to TCR175 except for these differences:

- 3/4" female square drive input and 600 ft lb capacity with 10 ft lb graduations and 800 N•m capacity with 20 N•m increments
- Compact design with 1/4" steel mounting plate allows for convenient installation in any direction: horizontally on a bench, vertically on a wall, or on any other sturdy, flat surface
- Use on most 3/4" drive torque wrenches including these popular Snap-on® models: ATECH4R600, TECH4R600/TECH4RM600, QD4400/QD4R400, QD4600/QD4R600, TQR400E/TQR600E, TE352A/TE602A series and TEC352A/TEC602A series
- Does not include certificate of calibration

All Snap-on torque wrenches, drivers and testers are provided with a Certificate of Calibration. (unless otherwise indicated)
All wrenches and drivers are calibrated per ASME® and ISO® standards for accuracy, from 20 to 100% of full scale, using NIST® traceable equipment.



WARNING



- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on pages W1 to W4

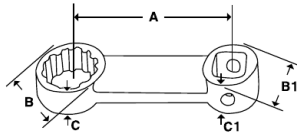
HIGH PERFORMANCE/SPLINE

Spline Torque Adaptors

Snap-on® spline wrenching tools have been developed to service high tensile strength spline nuts and bolts widely used on both military and commercial aircraft.

Precise, radial spline teeth engage the fastener teeth over a wider area to minimize stress, and allow application of high torque to reduce risk of damage to the fastener or to the tool.

Chrome tools comply with Military Spec. MS-33787 and MIL-W-89823. (Industrial finish tools comply with performance specifications and differ only in finish.) The unique spline wrenching configuration can also be used on ordinary 6 and 12 point fasteners with an advantage similar to the Snap-on Flank Drive® wrenching system.



FRES10

3/8" Drive Spline, inches

#	Hex	Stock No.	Working Torque, in lb	A	B-B1	C-C1
#7	7/32	FRES7	140	2	.375-.750	1/4-7/16
#8	1/4	FRES8	195	2	.400-.750	1/4-7/16
#9	9/32	FRES9	220	2	.445-.750	1/4-7/16
#10	5/16	FRES10	250	2	.490-.750	1/4-7/16
#12	3/8	FRES12	515	2	.590-.750	5/16-7/16
#14	7/16	FRES14	875	2	.680-.750	5/16-7/16
#16	1/2	FRES16	1,575	2	.745-.750	5/16-7/16
#18	9/16	FRES18	1,750	2	.825-.750	3/8-7/16
#20	5/8	FRES20	1,750	2	.895-.750	3/8-7/16
#22	11/16	FRES22	1,750	2	.997-.750	1/2-7/16
#24	3/4	FRES24	1,750	2	1.08-.750	9/16-7/16



SRES30A

1/2" Drive Spline, inches

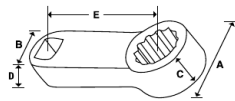
#	Hex	Stock No.	Working Torque, in lb	A	B-B1	C-C1	Set Contains:
#18	9/16	SRES18	2,275	3	.818-1.04	13/32-1/2	•
#20	5/8	SRES20	2,450	3	.900-1.04	1/2-1/2	•
#22	11/16	SRES22	2,975	3	.989-1.04	1/2-1/2	•
#24	3/4	SRES24	3,500	3	1.08-1.04	1/2-1/2	•
#26	13/16	SRES26	4,410	3	1.16-1.04	1/2-1/2	•
#28	7/8	SRES28	4,900	3	1.26-1.04	1/2-1/2	•
#30	15/16	SRES30A	6,000	3	1.26-1.04	37/64-37/64	•

Set Contains: SRES30A

3/8" Drive Torque Adaptors, Non-Spline



FRDHM18



205FRDH

Flank Drive Torque Adaptors, mm

Working Torque, in lb	mm	12	A	B	C	D	E
420	10	FRDHM10	17.1	18.8	7.8	11.1	50.8
720	13	FRDHM13	21.0	18.8	7.8	11.1	50.8
1,200	15	FRDHM15	25.1	18.8	7.8	11.1	50.8
1,480	18	FRDHM18	22.4	18.8	13.3	11.1	50.8

Flank Drive Torque Adaptors, inches

Working Torque, in lb	Hex	12	A	B	C	D	E	12
190	5/16	FRDH101	.475	.750	1/4	7/16	2	•
420	3/8	FRDH121	.570	.750	5/16	7/16	2	•
500	7/16	FRDH141	.655	.750	11/32	7/16	2	•
710	1/2	FRDH161	.740	.750	11/32	7/16	2	•
1,050	9/16	FRDH181	.825	.750	3/8	7/16	2	•

Set Contains: 205FRDH

Conventional hex

Overview 268

Cordless 270

Air 283

Power Tool
Accessories 307

Scan to learn about
innovations in power
tools from Snap-on

www.snapon.com/1200/powertools



POWER TOOLS

SERIOUS POWER TAKES MANY FORMS

From lithium cordless impact wrenches, to powerful air tools,
to ergonomic sanders, Snap-on delivers power combined with
unmatched comfort and control



Power

Power is defined by your ability to get the job done and Snap-on gives you more ways to do it

POWERFUL TORQUE — More power per pound, combining heavy duty components with lightweight bodies

CORDLESS TOOLS — Long-lasting power for the new lithium series tools you use most

ACCESSIBILITY — Power to places where just hand tools used to go

Comfort and Control

Snap-on® power tools are built with the comfort and control you need to use them all day, every day

BALANCED WEIGHT — Better control with glass-filled nylon housings balancing the weight

ERGONOMIC GRIPS — Feels better in your hand, making it easier to use

COMPACT NOSE DESIGN — Better access to restricted areas by removing unnecessary bulk



CORDLESS

Progress is Measured in the Power to Move on to Your Next Job.

Each Snap-on® cordless tool combines surprising power with maximum mobility.

Lightweight and comfortable — Snap-on cordless tools are designed to feel balanced and natural in your hand.

Power — Pull the trigger and feel the power. That's when you realize why Snap-on has become a leader in the cordless category.

Durability.

If you are going to use tools that go anywhere, they'd better work when you get there.

Snap-on builds tools with the best components and engineers them to exacting standards.

Higher grade metals — Internal components combined with glass-filled nylon housings give you a tool that will stand up in the toughest shop environment.

More Ways to Give You Power.

Snap-on recently added more battery options to the power tool collection.

Lithium Batteries

The CTB7185 lithium battery is compact, lightweight and long lasting. The CTB7185 contains the highest grade lithium cells available. The built-in fuel gauge allows the user to monitor the current charge state.



Ni-Cad Batteries

When it comes to long life cycles, Ni-Cad is the rechargeable battery you can count on. Ni-Cad offers high performance in cold temperatures. Durability and power you can trust.



Impacts

Specifications	CT7850	CT6850	CT4450A	CT4410A	CT561	CT661
Battery Type	Lithium 3.0 Ah	Ni-Cad 2.5 Ah	Ni-Cad 2.5 Ah	Ni-Cad 2.5 Ah	Ni-Cad 700 mAh	Lithium 1.5 Ah
Battery Voltage	18	18	14.4	14.4	7.2	7.2
Square Drive, inches	1/2	1/2	1/2	3/8	3/8	3/8
Torque Output, ft lb (N•m)	450 (542)	400 (475)	150 (203)	150 (203)	50 (68)	70 (7.9)
Blows Per Minute, bpm	2,100	2,100	2,900	2,900	3,000	3,000
Free Speed, rpm	2,200	2,200	2,280	2,280	2,500	2,000
Charge Time (minutes)	30	40	35	35	55	30
Length, in. (mm)	9.95 (252)	9.95 (252)	6.4 (163)	6.4 (163)	6.2 (157)	6.2 (157)
Weight w/Battery, lbs (kg)	6.8 (3.1)	7.6 (3.4)	4.6 (2.1)	4.6 (2.1)	1.7 (.77)	1.71 (.77)
Warranty (battery)	2 Years/1,000 Cycles	1 Year	1 Year	1 Year	1 Year	1 Year
Warranty (tool, charger)	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year
Pinned Anvil Version	CT7850P	CT6850P	CT4450AP	CT4410AP		
Quick Change Anvil Version	CT7850QC (7/16")	CT6850QC (7/16")		CT4410AQC (1/4")	CT561QC	CT661QC
Tool Body Only	CT7850DB	CT6850DB	CT4450ADB	CT4410ADB	CT561DB	CT661DB

Drills/Drivers 1/2" (13mm)

Specifications	CDR7850H	CDR6850	CDR4450	CTS561CL	CTS561	CTS661
Battery Type	Lithium 3.0 Ah	Ni-Cad 2.5 Ah	Ni-Cad 2.5 Ah	Ni-Cad 700 mAh	Ni-Cad 700 mAh	7.2 V Lithium
Battery Voltage	18	18	14.4	7.2	7.2	7.2
Chuck Capacity, inches	1/2	1/2	1/2	1/4 Hex	1/4 Hex	1/4 Hex
Torque Output, inches lbs (N•m)	450 (50.8)	450 (50.8)	400 (45.2)	60 (6.78)	60 (6.78)	100 (11.29)
Clutch Settings	22	22	22	6		9
Gear Box Type	2 speed	2 speed	2 speed	1 speed	1 speed	1 speed
RPM (Low)	0-500	0-500	0-350			
RPM (High)	0-1,800	0-1,800	0-1,500	375	375	400
Charge Time (minutes)	30	40	35	55	55	30
Length, inches (mm)	10.25 (260)	10.25 (260)	7.85 (199)	5.2 (132)	4.6 (117)	5 1/4 (133.3)
Weight w/Battery, lbs (kg)	5.5 (2.5)	6.3 (2.8)	4.9 (2.2)	1.5 (.68)	1.2 (.55)	1.5 (.68)
Warranty (battery)	2 Years/1,000 Cycles	1 Year	1 Year	1 Year	1 Year	1 Year
Warranty (tool)	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year
Tool Body Only	CDR7850HDB	CDR6850DB	CDR4450DB	CTS561CLDB	CTS561DB	CTS661DB

Reciprocating Saws/Grease Guns

Specifications	CTRS6855 Recip Saw	CTRS6850 Recip Saw	CGG4850 Grease Gun
Battery Type	Lithium 3.0 Ah	Ni-Cad 2.5 Ah	Ni-Cad 2.5 Ah
Battery Voltage	18	18	18
Stroke Length, inches (mm)	1 (25.4)	1 (25.4)	
Strokes Per Minute	2,300	2,300	
Capacity (tubes dispensed w/one battery)			12
Hose Length, inches (mm)			30 (762)
Pressure Rating (psi)			7,500
Charge Time (minutes)	30	40	40
Length, inches (mm)	17 (431)	17 (431)	15.8 (401)
Weight w/Battery, lbs (kg)	7.7 (3.4)	8.7 (4.0)	9.5 (4.3)
Warranty (battery)	2 Years/1,000 Cycles	1 Year	1 Year
Warranty (tool)	1 Year	1 Year	1 Year
Tool Body Only	CTRS6850DB	CTRS6850DB	CGG4850DB

CE



WARNING



- Use only impact sockets and accessories with impact wrenches
- Read safety precautions on pages W1 to W4

CORDLESS




















18 V Kits



CK7850DIL

Cordless Kits

When multiple cordless tools are needed at the same time, take a look at investing in cordless kits. Kits offer superior value and come complete with batteries, a battery charger, flashlight and tote bag. Add versatility, add mobility and add on to your cordless kit down the road with additional cordless tools. Snap-on offers tool only options to build your portfolio of tools. Lithium or Ni-Cad. Mix or match. Snap-on® cordless allows you to operate the same tool with either Lithium or Ni-Cad batteries.

	Set Contains:	CK6850DLA	CK6850DILA	CK6850DIRLA	CK6850DRLA	CK7850CIL	CK7850DIL	CK7850DL	CK7850CIL	CK4410DILA
	CDR6850DB 18 V Drill Body		•	•	•					
	CDR7850HDB 18 V Hammer Drill Body						•	•		
	CT6850DB 18 V 1/2" Drive Impact Wrench Body		•	•						
	CT7850DB 18 V Lithium 1/2" Drive Impact Wrench Body					•	•		•	
	CTRS6850DB 18 V Reciprocating Saw Body and Blades			•	•					
	CDR4450DB 14.4 V Drill Body									•
	CT4410ADB 14.4 V 3/8" Drive Impact Wrench Body									•
	DBBPT13 Blue-Point Drill Bit Set	•							•	
	CTB6187 18 V Lithium Battery (2)									
	CTB7185 18 V Lithium Battery (2)					•	•	•	•	
	CTB4187 18 V Ni-Cad Batteries (2)	•	•	•	•					
	CTB4147 14.4 V Ni-Cad Batteries (2)									•
	CTC620 Battery Charger	•	•	•	•					•
	CTC720 Battery Charger						•	•		
	CTC628 Mobile Battery Charger									
	CTC728 Mobile Battery Charger					•			•	
	CTLED4918HO LED Flashlight High Output	•	•	•	•				•	•
	CTL7850 Compact Worklight					•	•	•		
	CTT0TEA Tote Bag	•	•	•	•	•	•	•	•	•

CE



CT7850



CT6850



Friction Ring



Quick Change



Pinned Anvil

18 V Impact Wrenches

CT7850 18 V Lithium Impact.

- 450 ft lbs torque output
- Built-in super bright 1 W LED light
- Built-in anvil brake stop
- Digital microprocessor controlled switch for precise control
- Rare earth magnet motor provides greater torque
- Housing screen keeps debris out of the tool
- Thermal temperature controlled motor prolongs tool life
- Includes (2) Lithium batteries and tote bag

CT6850 18 V Ni-Cad Impact.

- 400 ft lbs torque output
- Glass filled nylon housing provides durability and strength
- Patented air flow system routes cool air over the motor to extend tool life
- Needle bearing support helical cut gears distribute even torque load from the motor
- Ergonomic cushion grip absorbs vibration and reduces fatigue
- Super heavy duty motor is cushion mounted to reduce vibration
- One handed forward/reverse lever
- (2) Ni-Cad batteries and blow molded case

Specifications	CT7850	CT7850M	CT6850	CT6850M
Battery Type	Lithium 3.0 Ah	Lithium 3.0 Ah	Ni-Cad 2.5 Ah	Ni-Cad 2.5 Ah
Battery Voltage	18	18	18	18
Square Drive, inches (mm)	1/2 (13)	1/2 (13)	1/2 (13)	1/2 (13)
Anvil Type	Friction Ring	Friction Ring	Friction Ring	Friction Ring
Torque Output ft lb (N•m)	450 (542)	450 (542)	400 (475)	400 (475)
Blow Per Minute, bpm	2,100	2,100	2,100	2,100
Free Speed, rpm	2,200	2,200	2,200	2,200
Charge Time (minutes)	30	30	40	40
Length, inches (mm)	9.95 (252)	9.95 (252)	9.95 (252)	9.95 (252)
Weight w/Battery, lbs (kg)	6.8 (3.1)	6.8 (3.1)	7.6 (3.5)	7.5 (3.4)
Warranty (tool & charger)	1 Year	1 Year	1 Year	1 Year
Warranty (battery)	2 Years/1,000 cycles	2 Years/1,000 cycles	1 Year	1 Year
Pinned	CT7850P	CT7850P	CT6850P	CT6850PM
Quick Change	CT7850QC	CT7850QC	CT6850QCDB	CT6850QCM
Tool only			CT6850DB	
Battery (qty)	CTB7185 (2)	CTB7185 (2)	CTB4187 (2)	CTB4187 (2)
Storage Case	CTTOTEA	CTTOTEA	PB165	PB165
Charger	CTC720	CTC728	CTC620	CTC628
Optional Protective Boot	CT7850B00T	CT7850B00T	CT4850B00T	CT4850B00T

CT6850DB and CT6850QCDB are tool bodies only and do not include batteries, charger or case

€



WARNING



- Use only impact sockets and accessories with impact wrenches
- Read safety precautions on pages W1 to W4

CORDLESS

18 V Drills



CDR7850H



CDR6850

18 V Drills

CDR7850 18 V Lithium Hammer Drill.

- Hammer function allows for drilling in concrete and masonry
- Built-in super bright 1 W LED light
- Housing screen keeps debris out of the motor
- All steel spindle lock for longer tool life
- 3 position function: Hammer/Drill/Screw
- Digital microprocessor controlled switch for precise control
- Includes 2 Lithium batteries and tote bag

CDR6850 18 V Ni-Cad Drill.

- 2 battery choices available: 18 V Lithium or 18 V Ni-Cad match the needs of any application
- Industrial strength, heavy duty gearing designed for drilling in metal
- Heavy duty single sleeve keyless chuck with carbide jaws grips bits securely and prevents slippage
- 22 position clutch with a 2 speed gearbox provides torque control for driving applications
- Glass filled nylon housing is rugged and provides durability and strength
- Over molded ergonomic cushion grip absorbs vibration and reduces user fatigue
- Stainless steel motor screens keep debris out of the motor, extending tool life
- Contoured variable speed trigger provides ergonomic comfort and superior control

Specifications	CDR7850H	CDR7850HDB	CDR6850	CDR6850DB
Battery Type	Lithium 3.0 Ah	Lithium 3.0 Ah	Ni-Cad 2.5 Ah/Lithium 3.0 Ah	Ni-Cad 2.5 Ah/Lithium 3.0 Ah
Battery Voltage	18	18	18	18
Chuck Capacity, inches (mm)	1/2 (13)	1/2 (13)	1/2 (13)	1/2 (13)
Torque Output, in lbs (N•m)	450 (50.8)	450 (50.8)	450 (50.8)	450 (50.8)
Clutch Settings	22	22	22	22
Gear Box Type	3 speed	3 speed	2 speed	2 speed
Hammer Mode	Yes	Yes	No	No
RPM (Low)	0-500	0-500	0-500	0-500
RPM (High)	0-1,800	0-1,800	0-1,800	0-1,800
Charge Time (minutes)	30	30	40	40
Length, inches (mm)	10.25 (260)	10.25 (260)	10.25 (260)	10.25 (260)
Weight w/Battery, lbs (kg)	5.5 (2.5)	** 3.7 (1.6)	6.3 (2.8)	** 3.7 (1.6)
Warranty (tool & charger)	1 Year	1 Year	1 Year	1 Year
Warranty (battery)	2 Years/1,000 cycles		1 Year	
Battery (qty)	CTB7185 (2)	Not Included	CTB4187 (2)	Not Included
Storage Case	CTTOTEA	Not Included	PB165	Not Included
Charger	CTC720	Not Included	CTC620	Not Included

CDR6850DB/CDR7850HDB is the tool body only and does not include batteries, charger or case

CT6850PDB is Pinned Anvil tool only and does not include batteries, charger or case

CE

** Battery not included in weight

18 V Reciprocating Saws



CTRS6855



CTRS6850

18 V Reciprocating Saws CTRS6855/CTRS6850 Series.

- 2 battery choices available, 18 V Lithium or 18 V Ni-Cad match the needs of any application
- 75 A rated, heavy duty variable speed trigger provides long life and is contoured to reduce user fatigue
- Heavy duty 14 gauge internal wiring withstands high current loads during heavy sawing
- Spring loaded blade retention system requires no tools and ejects broken blades easily
- Nonslip cushion grip nose reduces vibration and provides positive tool control
- Heavy duty armature and balanced motor design provide smooth operation
- Turbine style cooling system reduces heat buildup, extending tool life
- Sealed nose mechanism prevents dirt and sawing debris from damaging internal components

Specifications	CTRS6855 †	CTRS6850 †	CTRS6850DB †
Battery Type	Lithium 3.0 Ah	Ni-Cad 2.5 Ah	Ni-Cad 2.5 Ah/Lithium 3.0 Ah
Battery Voltage	18	18	18
Stroke Length, inches (mm)	1 (25.4)	1 (25.4)	1 (25.4)
Strokes Per Minute	2,300	2,300	2,300
Charge Time (minutes)	30	40	—
Length, inches (mm)	17 (431)	17 (431)	17 (431)
Weight w/Battery, lbs (kg)	7.7 (3.4)	8.7 (4.0)	6.0 (2.7)
Warranty (tool & charger)	1 Year	1 Year	1 Year
Warranty (battery)	2 Years/1,000 cycles	1 Year	—
Battery (qty)	CTB6187 † (1)	CTB4187 † (1)	Not Included
Storage Case	CTT0TEA	CTT0TEA	Not Included
Charger	CTC620 †	CTC620 †	Not Included

CTRS6850DB is the tool body only and does not include batteries, charger or case

† CE

Grease Gun

18 V Grease Guns

- All steel heavy duty gearing provides strength and durability
- High pressure 7,500 psi hose stays flexible in cold weather
- Planetary spur gear system resists wear and stripping

Specifications	CGG4850 †	CGG4850DB †
Battery Type	Ni-Cad 2.5 Ah	Ni-Cad 2.5 Ah
Battery Voltage	18	18
Capacity, Tubes Per Charge	12	12
Hose Length, inches (mm)	30 (762)	30 (762)
Charge Time (minutes)	40	—
Length, inches (mm)	15.8 (401)	13 (330)
Weight w/Battery, lbs (kg)	9.5 (4.3)	7.5 (3.4)
Warranty (tool & charger)	1 Year	1 Year
Warranty (battery)	1 Year	—
Battery (qty)	CTB4187 † (2)	Not Included
Storage Case	CTT0TEA	Not Included
Charger	CTC620 †	Not Included

CGG4850DB is the tool body only and does not include batteries, charger or case

† CE



CGG4850



WARNING



- Use only impact sockets and accessories with impact wrenches
- Read safety precautions on pages W1 to W4

CORDLESS

14.4 V Impacts & Drills



CT4410A



CDR4450



Friction Ring



Quick Change



Pinned Anvil

14.4 V Impact Wrenches

- Compact, balanced, glass filled nylon housing provides durability and strength
- Built-in LED illuminates work area
- Cushion mounted heavy duty motor reduces vibration
- Over molded ergonomic cushion grip absorbs vibration and reduces user fatigue
- Heat treated alloy gears provide power and durability
- Heavy duty heat sink protects switch and dissipates heat to prolong life
- One hand forward/reverse lever changes direction easily

14.4 V Drills

- Built-in LED illuminates work area
- Rare earth magnet motor increases power and efficiency
- 22 position clutch with a 2 speed gearbox provides torque control
- Over molded ergonomic cushion grip absorbs vibration and reduces user fatigue
- 1/2" capacity chuck with carbide jaws provides secure bit retention and easy changes
- Heavy duty heat sink protects switch and dissipates heat to prolong life
- One hand forward/reverse lever changes direction easily
- Single sleeve chuck allows for easy bit changes

	Impact Wrenches		Drills
Specifications	CT4410A	CT4450A	CDR4450
Battery Type	Ni-Cad 2.5 Ah	Ni-Cad 2.5 Ah	Ni-Cad 2.5 Ah
Battery Voltage	14.4 V	14.4 V	14.4 V
Square Drive, inches (mm)	3/8 (10)	1/2 (13)	1/2 (13)
Anvil Type	Friction Ring	Friction Ring	
Torque Output ft lb (N•m)	150 ft lb (203)	150 ft lb (203)	400 in lb (45.2)
Gear Box Type			2-speed
Clutch Settings			22
Free Speed, rpm	2,280	2,280	0-350/0-1,500
Blows Per Minute, bpm	2,900	2,900	
Charge Time (minutes)	35	35	35
Length, inches (mm)	6.4 (163)	6.4 (163)	7.8 (199)
Weight w/Battery, lbs (kg)	4.6 (2.1)	4.6 (2.1)	4.9 (2.2)
Warranty (tool & charger)	1 Year	1 Year	1 Year
Warranty (battery)	1 Year	1 Year	1 Year
Pinned	CT4410AP	CT4450AP	
Quick Change	CT4410AQC		
Tool only	CT4410ADB	CT4450ADB	CDR4450DB
Battery (qty)	CTB4147 (2)	CTB4147 (2)	CTB4147 (2)
Blow Molded Case	PB165	PB165	PB165
Charger	CTC620	CTC620	CTC620

CT4410ADB, CT4450ADB and CDR4450DB are tool body only and do not include batteries, chargers or case.
 CT4410APDB is Pinned Anvil tool only and does not include battery charger or case.

CE

14.4 V Platforms (Blue-Point®)



ETB144DBDIL



ETB14438A

14.4 V Cordless Tool Kit

ETB144DBDIL Cordless Power Tool Kit.

- Impact wrench delivers 140 ft lb of maximum torque directly to the fastener without kickback
- 3/8" drill features a heavy duty single sleeve keyless chuck, plus a variable speed trigger, high and low RPM speed settings and a 20 position clutch
- Portable light features long lasting LED bulb and a 90° pivoting head to position the beam where it's needed
- 1.9 Ah slide on batteries provide the best connection plus a long run time
- All tools offer compact shape with comfort grips and perfect balance
- 21 pc HSS drill bit set with 135° point
- Heavy duty tote bag will carry all these tools and more with ease

Kit Includes:

- ETB14438ADB - 3/8" Impact Wrench (body only).
- ETB14410A - LED Light (body only).
- ETB14420ADB - 3/8" Chuck Drill (body only).
- ETB14419A - 14.4 V Ni-Cad Battery (2).
- ETB14401A - Charger.
- BPTOTE - Tote Bag.
- DBBP21 - High Speed Steel Drill Bit Set (21 pcs).

14.4 V Impact Wrenches (3/8")

- Delivers 140 ft lb max torque in a compact design to provide the user maximum versatility
- Includes 2 batteries and one charger packed in a blow molded case
- Batteries have a 1.9 Ah that provides a long run time
- Easy replaceable carbon brushes to keep your investment running like new
- Slide on battery provides better contact and safer operation since battery won't drop
- Perfectly balanced compact shape with surrounding soft grip handle reduces fatigue
- Space included in the molded case to add the ETB14410A LED light

Specifications	ETB14438A	ETB14438ADB
Square Drive, inches	3/8	3/8
Blows per Minute, bpm	2,400	2,400
Maximum Torque, in lb (N•m)	140 (189)	140 (189)
Free Speed, rpm	0-2, 200	0-2, 200
Motor/Battery Voltage	14.4	14.4
Length, inches (mm)	7 (178)	7 (178)
Weight, lbs (kg)	4.22 (1.9)	4.22 (1.9)
Battery Pack	ETB14419A (1.9Ahr)	Not included
Battery Charger	ETB14401A	Not included

14.4 V Cordless Ratchet

ETB14460A/ETB14460ADB 14.4 V 3/8" Cordless Ratchet.

- Cord free eliminates dragging dirty air hoses in and across the service vehicle
- High speed (190 rpm) increase productivity
- Delivers 35 ft lb of torque
- 1.9 Ah Ni-Cad battery provides users with ample run time between charges
- Aluminum housing provides durability under manual stress loads

Kit Includes:

- 14.4 V 3/8" ratchet
- (2) batteries
- Battery charger
- Molded carrying case

Specifications	ETB14460A	ETB14460ADB
Square Drive, inches (mm)	3/8 (10)	3/8 (10)
Maximum Torque ft lb (N-M)	35 (47)	35 (47)
Free Speed RPM	190	190
Motor Battery Voltage	14.4	14.4
Length, inches (mm)	14 7/8 (378)	14 7/8 (378)
Weight w/Battery, lbs (kg)	4.48 (6.6)	4.48 (6.6)
Battery Pack (1.9 Ah)	ETB14419A	Not Included
Battery Charger	ETB14401A	
Vinyl Boot (optional)	YA889A	YA889A



ETB14460A



WARNING



- Use only impact sockets and accessories with impact wrenches
- Read safety precautions on pages W1 to W4

14.4 V Platforms (Blue-Point®)

14.4 V Drill Kits (3/8" Capacity)



ETB14420A

ETB14420A 14.4 V Cordless Driver/Drill.

- Includes cordless drill, 2 batteries and battery charger
- Keyless chuck provides quick replacement of bits to save time
- 2 speed switch and variable speed trigger offers maximum control in both forward and reverse
- Clutch cap provides 20 different settings up to 260 in lb torque for precision jobs
- White LED illuminates when trigger is depressed for those dim working conditions
- Slide on battery provides better contact and safer operation since battery won't drop
- Perfectly balanced compact shape with surrounding soft grip handle reduces fatigue
- Space included in the molded case to add the ETB14410A light

ETB14430A 14.4 V Right Angle Cordless Driver/Drill.

- Field replaceable carbon brushes are easy to repair saving cost and time
- Full alloy gear box for longer life
- Single speed 1,000 rpm with 140 in lb torque output is suitable for heavy duty applications using large bits and fasteners
- Compact size (5" from chuck tip to top of tool body) is ideal for close quarter drilling
- 3/8" stainless steel keyed chuck for strength and precise drilling
- Ergonomic designed handle reduces fatigue
- White LED illuminates when trigger is depressed for dim working conditions
- Functions as a drill and screwdriver providing value and versatility
- Includes (2) 14.4 V Ni-Cad batteries and one charger in blow molded case
- Use for automotive repairs, construction and home improvements



ETB14430A

Specifications	ETB14420A	ETB14420ADB	ETB14430A	ETB14430ADB
Chuck Cap, inches	3/8	3/8	3/8	3/8
No Load Speed, rpm	0-400/0-1,400	0-400/0-1,400	0-1,000	0-1,000
Maximum Torque, in lb (N•m)	260 (30)	260 (30)	140 (15.8)	140 (15.8)
Motor/Battery Voltage	14.4	14.4	Ni-Cad 1.9 Ah/14.4	Ni-Cad 1.9 Ah/14.4
Length, inches (mm)	8.5 (216)	8.5 (216)	5.0 (127)	5.0 (127)
Weight, lbs. (kg)	4.28 (1.9)	4.28 (1.9)	4.0 (1.81)	4.0 (1.81)
Battery Pack	ETB14419A (1.9Ah)	Not Included	ETB14419A (2)	Not Included
Battery Charger	ETB14401A	Not Included	ETB14401A	Not Included

CE



ETB14410A

14.4 V Cordless Work Lights

ETB14410A Cordless LED Work Light.

- LED bulb provides long life and low power draw for less job interruptions
- 90° pivoting head puts the light where you need it
- Faceted reflector provides bright uniform beam
- Perfectly balanced compact shape with surrounding soft grip handle reduces fatigue
- Slide on battery provides better contact and safer operation since battery won't drop

Specifications	ETB14410A
Length, inches (mm)	9 (228)
Weight, lbs. (kg)	0.5 (0.2) (without battery)
Battery Pack	Not Included
Battery Charger	Not Included



ETB14419A



ETB14401A

Cordless Battery Charger/Pack

ETB14419A Battery Pack.

- 14.4 V battery pack for A Series ETB cordless power tools

ETB14401A Battery Charger.

- Charging unit for ETB14419A battery packs

7.2 V Lithium Impact/Screwdrivers



CT661



CT625



CTS661

CT661/CT625 7.2 V Lithium Impact

- CT661: 70 ft lbs of torque output
- CT625: 60 ft lbs of torque output
- Variable speed digital toggle style trigger
- Built-in brake stops the anvil from spinning
- Twin beam headlights illuminate work area
- Built-in fuel gauge indicates battery charge
- Fast 30 minute charge time
- Housing screen keeps debris out of the tool
- Includes (2) lithium batteries and soft sided case

CTS661 7.2 V Cordless Screwdriver

- 100 in lbs of torque output
- 400 rpms for quick fastener removal
- Variable speed digital toggle style trigger
- Built-in brake stops rotation quickly
- 275 in lbs of spindle lock breaks fasteners loose quickly
- 9 position clutch allows you to dial in the proper application
- Metal gears for increased torque and longer tool life
- Built-in LED lights
- Includes (2) lithium batteries and tote bag

Specifications	CT661	CT625	CTS661
Battery Type	7.2 V Lithium	7.2 V Lithium	7.2 V Lithium
Battery Voltage	7.2 V DC	7.2 V DC	7.2 V DC
Square Drive, inches (mm)	3/8 (10)	1/4 (6)	1/4 (6)
Torque Output, (N•m)	70 ft lb (95)	60 ft lb (81)	100 in lb (11)
Clutch Settings			9
Free Speed, rpm	2,000	2,000	400
Blows Per Minute, bpm	3,000	3,000	
Charge Time (minutes)	30	30	30
Length, inches (mm)	6 1/4 (159)	6 1/4 (159)	6 1/4 (159)
Width, inches (mm)	1.8 (45.72)	1.8 (45.72)	1.9 (48.26)
Weight w/Battery, lbs (kg)	1.71 (.77)	1.71 (.77)	1.5 (.68)
Warranty (tool & charger)	1 Year	1 Year	1 Year
Warranty (battery)	1 Year	1 Year	1 Year
Quick Change	CT661QC		
Tool only	CT661DB	CT625DB	CTS661DB
Battery (qty)	CTB6172 (2)	CTB6172 (2)	CTB6172 (2)
Blow Molded Case/Soft Case	CTSC1	CTSC1	CTSC1
Charger	CTC722	CTC722	CTC722

CE



WARNING



- Use only impact sockets and accessories with impact wrenches
- Read safety precautions on pages W1 to W4

CORDLESS

7.2 V Ni-Cad Impact/Screwdrivers



CT561



CT525



CTS561CL

7.2 V Impact Wrenches

- Small, lightweight design is easy to control and reduces user fatigue
- Oversized forward/reverse toggle trigger for versatility
- Integrated soft grip handle provides comfort and positive tool control
- Tapered, lightweight, aluminum nose gets into restricted applications easily

7.2 V Screwdrivers

- 1/4" quick change hex chuck provides secure bit retention
- 6 position clutch for added torque control (CTS561CL only)
- Small, lightweight design maneuvers easily in restricted access applications
- Up to 250 in lb of manual torque can be applied to break stubborn fasteners loose
- Gearless spindle lock has no teeth or gears to break or chip



CTS561



CT561QC

	Impact Wrenches			Screwdrivers	
Specifications	CT561 †	CT561QC †	CT525 †	CTS561 †	CTS561CL †
Battery Type	Ni-Cad 700 mAh	Ni-Cad 700 mAh	Ni-Cad 700 mAh	Ni-Cad 700 mAh	Ni-Cad 700 mAh
Battery Voltage	7.2	7.2	7.2	7.2	7.2
Square Drive, inches	3/8	1/4	1/4	1/4	1/4
Torque Output, (N*m)	600 in lb (67.8)	300 in lb (34)	600 in lb (67.8)	60 in lb (6.78)	60 in lb (6.78)
Clutch Settings	—	—	—	—	6
Free Speed, rpm	2,500	2,500	2,500	375	375
Blows Per Minute, bpm	3,000	3,000	3,000	—	—
Charge Time (minutes)	55	55	55	55	55
Length, inches (mm)	6.4 (136)	6.2 (157)	6.2 (157)	4.6 (117)	5.2 (132)
Weight w/Battery, lbs (kg)	1.7 (.77)	1.7 (.77)	1.7 (.77)	1.2 (.55)	1.5 (.68)
Warranty (tool & charger)	1 Year	1 Year	1 Year	1 Year	1 Year
Warranty (battery)	1 Year	1 Year	1 Year	1 Year	1 Year
Battery (qty)	CTB5172 † (2)	CTB5172 † (2)	CTB5172 † (2)	CTB5172 † (2)	CTB5172 † (2)
Tool Only	CT561DB* †	CT561QCDB* †	CT525DB* †	CTS561DB* †	CTS561CLDB †
Blow Molded Case/Soft Case	CTSC1	CTSC1	CTC572	PB166	PB166
Charger	CTC572 †	CTC572 †	CTC572 †	CTC572 †	CTC572 †

*Tool bodies only and do not include batteries, charger or case

† C E



CTLED4918HO

CTLED4918HO Rechargeable LED Flashlight.

- Super bright 200 lumens LED light
- 120° pivoting head allows for greater versatility
- Operates on 14.4 or 18 V 6850 Series Lithium or Ni-Cad slide on batteries
- CE



CTL7850

CTL7850 Flashlight.

- 9 hour run time
- Unique compact design
- 4 high quality LEDs
- 4 position switch
- 8 position 90° rotating head
- Tempered lens
- Operates on 7850 series 18 V Lithium batteries
- CE



CTL761

CTL761 Flashlight.

- 200 lumens
- Low battery indicator
- 4 hour run time
- 120° rotating head
- Aluminum head
- Operates on 661 series 7.2 V Lithium batteries
- CE



CTLED566

CTLED566 Flashlight.

- Features 6 super bright LED bulbs to illuminate the work area
- Durable glass filled nylon housing holds up in tough environments
- CE

18 V Lithium Batteries

- 50% more run time, 36% lighter, 50% more life than Ni-Cad batteries
- 3.0 Ah high capacity cells
- No self discharge
- 4 LED fuel gauge indicates battery charge and condition

14.4 and 18 V Ni-Cad Batteries

- 2.5 Ah high capacity cells for long life
- No memory effect for maximum charging
- Glass filled nylon housing for durability

7.2 V Lithium Batteries

- 50% more run time than Ni-Cad batteries
- 1.5 Ah high capacity cells
- Thermostat protects battery from overheating

7.2 V Ni-Cad Batteries

- .7 Ah high capacity cells
- No memory effect for maximum charging

Batteries

Stock No.	Type	Voltage	Style	Charge Time (minutes)	Used With
CTB5172	Ni-Cad	7.2	Stick	55	CTS561, CTS561CL, CT561, CTLED566
CTB3092	Ni-Cad	9.6	Tower	45	CT30, CDR20, lights
CTB312	Ni-Cad	12	Tower	45	CDR30, CT310, CT350, lights
CTB3124	Ni-Cad	12	Tower	45	CDR30, CT310, CT350, lights
CTB314	Ni-Cad	14.4	Tower	45	CDR40, CDR45, CT3450, lights
CTB4147	Ni-Cad	14.4	Slide on	40	CDR4450 CT4110, CT4450, lights
CTB3187	Ni-Cad	18	Tower	40	CDR3850, CT3850, lights
CTB4187	Ni-Cad	18	Slide on	40	CDR4850, CDR4850A, CDR6850, CGG4850, CT4850, CT4850HO, CT6850, CTRS4850, CTRS6850, lights
CTB6187	Lithium	18	Slide on	40	CDR4850A, CDR6850, CDR6855, CT4850HO, CT6850, CT6855, CTRS6850, CTRS6855 and all lights with a slide on style base or any model with a green battery terminal connector
CTB7185	Lithium	18	Slide on	30	CT7850, CDR7850H, CTL7850
CTB6172	Lithium	7.2	Tower	30	CT661, CTS661, CT661QC, CT061, CTL761

CE

Chargers

Stock No.	Type	Application
CTC572	7.2 V Ni-Cad Charger	Charges all 7.2 V Ni-Cad batteries
CTC6172	7.2 V Lithium Charger	CT661, CTS661, CT661QC
CTC578	7.2 V DC Mobile Charger	Charges all 7.2 V Ni-Cad batteries
CTC420	Multivolt Ni-Cad Charger	Charges all 9.6 V, 14.4 V and 18 V Ni-Cad slide on or tower style batteries
CTC428	Multivolt Ni-Cad Mobile Charger	Charges all 9.6 V, 14.4 V and 18 V Ni-Cad slide on or tower style batteries
CTC620	Dual Chemistry Charger	Charges all 14.4 V / 18 V Ni-Cad or Lithium slide on style batteries
CTC628	12 V DC Dual Chemistry Mobile Charger	Charges all 14.4 V / 18 V Ni-Cad or Lithium slide on style batteries
CTC720	18 V Lithium Charger	CT7850, CDR7850H, CTL7850
CTC728	12 V DC Lithium Mobile Charger	CT7850, CDR7850H, CTL7850

CE



WARNING



• Read safety precautions on pages W1 to W4



CTB5172



CTB7185



CTC720



CTC728

International Product

Australia	Charger	Stock No.	Stock No.
Chargers:	Dual Chemistry Charger	CTCFA620 charges all 14.4/18 V Ni-Cad or Lithium slide on	CTCA720 charges all 18 V Lithium
	Multivolt Ni-Cad Charger	CTCFA420 charges all 9.6, 12, 14.4 and 18 V Ni-Cad slide on or tower	
	7.2 V Charger	CTCA572 Ni-Cad	CTCA772 Lithium
Australia	Tool	Ni-Cad Version	Lithium Version
Tools:	18 V Impact Wrench	CTA6850	CTA7850
	18 V Drill	CDRA6850	CDRA7850
	18 V Reciprocating Saw	CTRSA6850	CTRSA6855
	18 V Hammer Drill		CDRA7850H Lithium
	14.4 V Impact Wrench	CTA4410A	
	14.4 V Drill	CDRA4450	
	7.2 V Screwdriver	CTSA561	CTSA661
	7.2 V Screwdriver w/Clutch	CTSA561CL	
	7.2 V Impact Wrench	CTA561	CTA661

United Kingdom	Charger	Stock No.	Stock No.
Chargers:	Dual Chemistry Charger	CTCFU620 charges all 14.4/18 V Ni-Cad or Lithium slide on	CTCU720 charges all 18 V Lithium
	Multivolt Ni-Cad Charger	CTCFU420 charges all 9.6, 12, 14.4 and 18 V Ni-Cad slide on or tower	
	7.2 V	CTCU572 Ni-Cad	CTCEU772 Lithium
United Kingdom	Tool	Ni-Cad Version	Lithium Version
Tools:	18 V Impact Wrench	CTU6850	CTCEU7850
	18 V Drill	CDRU6850	CDRU7850
	18 V Reciprocating Saw	CTRSU6850	CTRSU6855
	18 V Hammer Drill		CDREU7850H Lithium
	14.4 V Impact Wrench	CTU4410A	
	14.4 V Drill	CDRU4450	
	7.2 V Screwdriver	CTSU561	CTSEU661
	7.2 V Screwdriver w/Clutch	CTSU561CL	
	7.2 V Impact Wrench	CTU561	CTEU661

Korea	Charger	Stock No.	Application
Chargers:	Dual Chemistry Charger	CTCFK620	Charges all 14.4/18 V Ni-Cad or Lithium slide on
Korea	Tool	Ni-Cad Version	Lithium Version
Tools:	18 V Impact Wrench	CTK6850	CTK7850
	18 V Drill	CDRK6850	CDRK7850
	18 V Reciprocating Saw	CTRSK6850	CTRSK6855

Europe	Charger	Stock No.	Stock No.
Chargers:	Dual Chemistry Charger	CTCFE620 charges all 14.4/18 V Ni-Cad or Lithium slide on	CTCE720 charges all 18 V Lithium
	Multivolt Ni-Cad Charger	CTCFE420 charges all 9.6, 12, 14.4 and 18 V Ni-Cad slide on or tower	
	7.2 V	CTCE572 Ni-Cad	CTCE772 Lithium
Europe	Tool	Ni-Cad Version	Lithium Version
Tools:	18 V Impact Wrench	CTE6850	CTCEU7850
	18 V Drill	CDRE6850	CDRE7850
	18 V Reciprocating Saw	CTRSE6850	CTRSE6855
	18 V Hammer Drill		CDREU7850H Lithium
	14.4 V Impact Wrench	CTE4410A	
	14.4 V Drill	CDRE4450	
	7.2 V Screwdriver	CTSE561	CTSEU661
	7.2 V Screwdriver w/Clutch	CTSE561CL	
	7.2 V Impact Wrench	CTE561	CTEU661

Japan	Charger	Stock No.	Stock No.
Chargers:	Dual Chemistry Charger	CTCJ620 charges all 14.4/18 V Ni-Cad or Lithium slide on	CTCJ720 charges all 18 V Lithium
	Multivolt Ni-Cad Charger	CTCJ420 charges all 9.6, 12, 14.4 and 18 V Ni-Cad slide on or tower	
	7.2 V Charger	CTCJ572 Ni-Cad	CTCJ772 Lithium
Japan	Tool	Ni-Cad Version	Lithium Version
Tools:	18 V Impact Wrench	CTJ6850	CTJ7850
	18 V Drill	CDRJ6850	CDRJ7850
	18 V Reciprocating Saw	CTRSJ6850	CTRSJ6855
	18 V Hammer Drill		CDRJ7850H Lithium
	14.4 V Impact Wrench	CTJ4410A	
	14.4 V Drill	CDRJ4450	
	7.2 V Screwdriver	CTSJ561	CTSJ661
	7.2 V Screwdriver w/Clutch	CTSJ561CL	
	7.2 V Impact Wrench	CTJ561	CTCJ661

All Countries	Charger	Stock No.	Application
Chargers:	12 V DC Mobile Charger	CTC628	Charges all 14.4/18 V Ni-Cad or Lithium slide on style batteries
	12 V DC Mobile Charger	CTC428	Charges all 9.6, 12, 14.4 and 18V Ni-Cad slide on
	7.2 V DC Mobile Charger	CTC578	Charges 7.2 V Ni-Cad batteries

†CE

†CE

Screwdriver Accessories/Polisher/Grinder/Engraver



CTEXTSET Quick Change Extension Set.

- Includes: CTEXT6 and CTEXT12 quick change extensions plus a T15 Torx® bit (1/4" shank) and a Phillips® bit (power groove hex shank)
- Ideal companion to the CTS561 and CTS561CL series screwdrivers where extended reach is needed



ETB1580A Polisher (Blue-Point).

- 6 position speed setting allows user to dial in desired speed
- Variable speed trigger lets user vary the speed within the range and have control over polishing speed
- Push button spindle lock for quick and easy pad changes



CTS561BITSET Quick Change Bit Set.

- Quick change bit set for Snap-on® CTS561 and CTS561CL cordless screwdrivers plus other power drivers
- Assortment of 22 popular sized bits (all 3" long) plus a 1/4" square drive (2" long) in storage case



CTS561CHUCK Quick Change Keyless Drill Chuck (1/4").

- 1/4" Hex shank for fast change over
- Compact size improves access and visibility of drilling surface
- 1/4" chuck capacity provides convenience for small jobs
- 1/32 to 1/4" drill capacity
- Use for light duty, small holes in metal and wood



CTS561HOLSTR Bit Holster.

- Holster for CTS561/CTS561CL series cordless screwdrivers
- Includes 3 flat tip bits (3/16", 7/32", 1/4"), 3 Phillips bits (#0, #1, #2) and 2 Torx bits (T15, T25)



GA236C Engraver (Blue-Point®).

- Marks all materials
- Includes 3 mm tungsten carbide tip
- 9 position stroke adjustment to control engraving depth
- **GA236-32 Diamond Tip.**
- Optional heavy duty tip



ETB415 4-1/2" Air-Thru™ Grinder (Blue-Point).

- Air-Thru Technology; Exhaust air keeps disc cooler and dust away from work surface
- D-handle allows user to grab the grinder from right, left or top
- Adjustable guard for safely cutting, grinding and polishing
- On board wrench holder and cord wrap
- Spindle lock for easy disc replacement
- Includes (1) grinding wheel



It's About Making the Best Tool. And then Making it Better.

For decades, Snap-on has built a reputation for lightweight, ergonomic tools that combine power and unmatched durability.

Snap-on delivers tools that help you finish the job, not stand in the way of it.

Snap-on has taken air to a new level by fitting heavy duty components into smaller places, giving you more power without more weight.

Unsurpassed Power and Speed.

Big torque and speed come from innovation—inside and out.



Twin hammer impact mechanisms — Unique hammer design results in more power per blow.

8-vane rotors — More vanes in the rotor mean smoother power transfer to the impact hammers and less power lost in the motor.

Making Your Job Easier.

Really, this is what it's all about; air tools with features to make everyday tasks simpler.

Better balance — For more user control.

Compact nose design — Allows easy access into tight spaces.

Durability.

Snap-on® air tools feature heavy duty components made to resist the everyday wear and tear of the shop.

One-piece magnesium housings — Keeps internal components in better alignment. Magnesium is incredibly tough and lightweight.

Oil-bath lubrication — Unique technology keeps internal components continuously lubricated for smooth operation and longer tool life.

Ergonomic Design.

Snap-on air tools are designed to work comfortably and feel natural.

Reduced vibration — Smooth-flowing motors and shock absorption reduce the stress from vibration.

Tip-valve trigger — For an intuitive flow of power from the user to the tool.

Comfort grips — Over-molded, cushion grips further absorb shock and take the strain out of repetitive use.



Quick Reference Chart Impact Wrench

Stock No.	Drive Size, inches (mm)	Max. Torque, ft lbs (N•m)	Free Speed RPM	Blows per Minute	Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	Vibration Level, m/s ²	Sound Level dBa Pressure	Length, inches (mm)	Weight, lbs (kg)
IM1800 ²	1 (25)	1,800 (2,440)	5,500	900	6.7 (48) [190]	8.5	104	14 (356)	15 (6.8)
IM1800L ²	1 (25)	1,800 (2,440)	5,500	900	6.7 (48) [190]	8.5	104	20 (508)	16 (7.3)
AT1300A ²	1 (25)	3,000 (4,068)	4,000	505	5.3 (38) [150]	4.4	92	21 (533)	25.6 (11.6)
AT1300AL ²	1 (25)	2,700 (3,661)	4,000	505	5.3 (38) [150]	4.4	92	27 (686)	28 (12.7)
MG1200A ²	3/4 (19)	1,200 (1,627)	7,000	1,200	6.4 (46) [181]	2.02	102	8 (203)	8 (3.6)
MG1200AL ²	3/4 (19)	1,200 (1,627)	7,000	1,200	6.4 (46) [181]	2.02	102	10 (254)	9 (4.09)
MG1200AXL ²	3/4 (19)	1,200 (1,627)	7,000	1,200	6.4 (46) [181]	2.02	102	13 (330)	10 (4.5)
MG1200AP ²	3/4 (19)	1,200 (1,627)	7,000	1,200	6.4 (46) [181]	2.02	102	8 (203)	8 (3.6)
AT670 ²	3/4 (19)	1,050 (1,423)	6,700 (F), 6,900 (R)	1,050	5.6 (40) [159]	19.7	99	8.5 (215)	7.5 (3.44)
AT670L ²	3/4 (19)	1,050 (1,423)	6,700 (F), 6,900 (R)	1,050	5.6 (40) [159]	19.7	99	13.5 (343)	8.8 (4)
AT126 ²	3/4 (19)	1,100 (1,491.6)	5,500 (F), 6,000 (R)	1,000	5.3 (38) [150.1]	24.9	96	8.8 (224)	12.40 (5.62)
AT126L ²	3/4 (19)	1,100 (1,491.6)	5,500 (F), 6,000 (R)	1,000	5.3 (38) [150.1]	24.9	96	14.8 (376)	13.7 (6.21)
MG725 ²	1/2 (13)	810 (1,098)	9,800	1,270	4.0 (29) [113]	6.6	99.9	7.7 (194)	4.8 (2.2)
MG725L ²	1/2 (13)	810 (1,098)	9,800	1,270	4.0 (29) [113]	6.6	99.9	9.7 (245)	5.0 (2.3)
MG725P ²	1/2 (13)	810 (1,098)	9,800	1,270	4.0 (29) [113]	6.6	99.9	7.7 (194)	4.8 (2.2)
MG3255 ²	1/2 (13)	325 (440)	10,700	1,400	2.4 (17) [68]	4.54	99.1	6.1 (155)	2.8 (1.3)
MG3255L ²	1/2 (13)	325 (440)	10,700	1,400	2.4 (17) [68]	4.54	99.1	7.6 (193)	2.9 (1.3)
MG3255P ²	1/2 (13)	326 (442)	10,700	1,400	2.4 (17) [68]	4.54	99.1	6.1 (155)	2.8 (1.3)
MG3255LP ²	1/2 (13)	325 (440)	10,700	1,400	2.4 (17) [68]	4.54	99.1	7.6 (193)	2.9 (1.3)
AT123B ²	1/2 (13)	450 (610)	9,000	1,000	4.2 (30) [119]	3.35	92	7.3 (185)	5.8 (2.6)
AT123BL ²	1/2 (13)	425 (576)	9,000	1,000	4.2 (30) [119]	13	92	9.2 (236)	6.1 (2.8)
AT555B ²	1/2 (13)	550 (745)	7,500	1,000	2.2 (16) [62]	3.75	89	7.8 (198)	5.8 (2.6)
AT570 ²	1/2 (13)	570 (773)	6,900 (F), 7,000 (R)	1,050	5.0 (36) [142]	6.08	95	7.24 (184)	4.08 (1.87)
ATC500 ²	1/2 (13)	525 (712)	10,500	1,250	3.5 (25) [99]	<2.5	95.5	7.8 (198)	5 (2.3)
MG325 ²	3/8 (10)	325 (440)	10,700	1,400	2.4 (17) [68]	4.54	99.1	6.1 (155)	2.8 (1.3)
MG325P ²	3/8 (10)	325 (440)	10,700	1,400	2.4 (17) [68]	4.54	99.1	6.1 (155)	2.8 (1.3)
AT380 ²	3/8 (10)	160 (216)	10,000	1,050	3.4 (24) [95]	3.5	94	6.3 (160)	2.62 (1.19)
AT321 ²	3/8 (10)	180 (224)	11,000	1,500	3.8 (27) [108]	9.8	100	6.1 (155)	2.9 (1.3)
AT370 ²	3/8 (10)	320 (434)	10,000 (F), 11,000 (R)	1,050	4.4 (32.6) [125] F 4.7 (34) [133] R	3.25	92	6.3 (160)	2.62 (1.19)
AT351 ²	3/8 (10)	175 (237)	9,700	1,200	2.5 (18) [71]	3.09	96.6	7.6 (194)	2.5 (1.2)
AT235MCA ²	1/4 (6)	25 (34)	13,000	2,900	1.67 (12) [47]	<2.5	82	6.2 (158)	1.4 (.64)

Ratchet

Stock No.	Drive Size, inches (mm)	Torque Range, ft lbs (N•m)	Free Speed RPM	Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	Vibration Level, m/s ²	Sound Level dBa Pressure	Length, inches (mm)	Weight, lbs (kg)
AT705B ²	1/2 (13)	5 - 50 (6 - 68)	150	3.0 (22) [85]	8.7	89	10.7 (273)	2.5 (1.14)
FAR72C ²	3/8 (10)	5 - 65 (6 - 88)	225	2.7 (19) [76]	5.3	90	11.8 (300)	3 (1.3)
FAR7200 ²	3/8 (10)	5 - 70 (7 - 97) open mode; 5-50 (7-67) quiet mode	260 (open mode); 200 (quiet mode)	4.5 (32) [127]	5.2	93 (open mode) 87 (quiet mode)	12.1 (308)	3 (1.3)
FAR2505 ²	3/8 (10)	0 - 35 (6 - 47)	235	1.4 (10) [40]	6.2	85	7.7 (197)	1.4 (.6)
AT704 ²	3/8 (10)	5 - 55 (6 - 75)	200	3.9 (28) [111]	<3.9	101	10.5 (266)	3.3 (1.5)
AT700F ²	3/8 (10)	5 - 45 (6 - 61)	150	3.0 (22) [85]	8.7	89	10.1 (257)	3.5 (1.6)
AT702 ²	3/8 (10)	5 - 60 (6 - 81)	200	3.0 (22) [85]	12.6	95	10.4 (265)	2.4 (1.1)
AT738 ²	3/8 (10)	0 - 60 (0 - 81)	350	4.1 (29) [113]	5.9	89	10.4 (265)	3 (1.3)
FAR2500 ²	1/4 (6)	0 - 35 (6 - 47)	235	1.4 (10) [40]	6.2	84	7.8 (197)	1.4 (.66)
FAR25A ²	1/4 (6)	5 - 25 (6 - 34)	225	1.4 (10) [40]	6.2	88	6.7 (171)	1.2 (.57)
AT203 ²	1/4 (6)	5 - 25 (6 - 34)	285	3.1 (22) [88]	<4.4	95	7.4 (188)	1.2 (.57)
AT200D ²	1/4 (6)	5 - 20 (6 - 27)	150	1.4 (10) [40]	3.3	85	8.7 (222)	1.1 (.50)
AT204 ²	1/4 (6)	5 - 22 (6 - 30)	275	2.4 (17) [68]	<1.7	80	4.9 (127)	1.4 (.66)

Drill

Stock No.	Chuck Size, inches (mm)	Rated Power, hp (kW)	Torque Range, in lbs (N•m)	Free Speed RPM	Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	Vibration Level, m/s ²	Sound Level dBa Pressure	Length, inches (mm)	Weight, lbs (kg)
PDR5000A ²	1/2 (13)	0.45 (.33)	0 - 300 (0 - 34)	450	3.8 (27) [108]	<0.4	85.2	8.7 (222)	3 (1.3)
AT5000 ²	1/2 (13)	0.45 (.33)	0 - 120 (0 - 14)	490	3.8 (27) [108]	<2.5	82	9 (229)	3.8 (1.7)
PDR3000A ²	3/8 (10)	0.45 (.33)	0 - 50 (0 - 6)	2,500	3.5 (25) [99]	<3.5	83.6	7 (178)	2.5 (1.1)
AT3000 ²	3/8 (10)	0.45 (.33)	0 - 40 (0 - 4.5)	1,675	3.5 (25) [99]	<2.5	82	7.6 (194)	3.2 (1.4)
AT811 ²	3/8 (10)	0.25 (.19)	0 - 55 (0 - 6)	1,320	3.4 (24) [95]	<.8	97	8.2 (208)	2.5 (1.1)
AT184 ²	5/16 (8)	-	-	1,800	8.4 (60) [238]	<1.0	84	7.9 (201)	3.1 (1.4)
AT801MCA ²	1/4 (6)	0.25 (.19)	0 - 18 (0 - 2)	1,800	1.9 (13.6) [53.8]	<2.5	84	7.2 (183)	1.5 (.68)

Hammer

Stock No.	Bore Diameter, inches (mm)	Blows per Minute	Piston Stroke, inches	Shank Opening, inches (mm)	Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	Vibration Level, m/s ²	Sound Level dBa Pressure	Length, inches (mm)	Weight, lbs (kg)
PH3050B ²	3/4 (19)	2,500	3	0.401 (10.1)	1.8 (13) [51]	2.8	103	8.9 (227)	5.9 (2.7)
AT2050 ²	3/4 (19)	3,400	2.75	0.401 (10.1)	2.5 (18) [71]	3.0	99	7.4 (187)	4.6 (2.1)

Finishing Tool

Stock No.	Pad Size, inches (mm)	Style	Rated Power, hp (kW)	Free Speed RPM	Spindle Thread, inches	Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	Vibration Level, m/s ²	Sound Level dBA Pressure	Length, inches (mm)	Weight, lbs (kg)
PSF4312 ²	3 (76)	Orbital	0.25 (.19)	12,000	1/4-20	2 (14) [57]	2.1	76	3 (76)	1.4 (.65)
PS4512 ²	5 (127)	Orbital	0.25 (.19)	12,000	5/16-24	2 (14) [57]	2.3	77	5 (127)	1.7 (.77)
PS4612 ²	6 (152)	Orbital	0.25 (.19)	12,000	5/16-24	2 (14) [57]	2.3	81	6 (152)	2.5 (1.14)
PSF4612 ²	6 (152)	Orbital Finishing	0.25 (.19)	12,000	5/16-24	2 (14) [57]	2.1	81	6 (152)	2.4 (1.11)
PS4609 ²	6 (152)	Geared (NV)	0.42 (.31)	1,000	3/8	3 (21.7) [85]	5.9	82	11 (281)	3.7 (1.70)
PS4609V ²	6 (152)	Geared (V)	0.42 (.31)	1,000	3/8	3 (21.7) [85]	5.9	82	11 (281)	3.7 (1.70)
PS4809 ²	8 (203)	Geared (NV)	0.42 (.31)	1,000	3/8	3 (21.7) [85]	5.9	82	11 (281)	4 (1.82)
PS4809V ²	8 (203)	Geared (V)	0.42 (.31)	1,000	3/8	3 (21.7) [85]	5.9	82	11 (281)	4 (1.82)
AT240 ²		Tire Buffer	0.4	2,600		3.7	1.18	89	9.1 (233)	1.8 (0.80)
AT406B	6 (152)	Orbital	0.24	10,000	5/16-24	3.5 (14) [97.86]	15	89	4.5 (115)	1.9 (0.86)
AT408 ²	8 (203)	Geared (NV)	0.5 (.37)	850	5/16-24	5 (36) [142]	3.7	87	11 (281)	4.8 (2.18)
AT411A ²	6 (152)	Dual Action	0.5 (.37)	10,000	5/16-18	5 (36) [142]	3.7	79	8 (203)	4.7 (2.14)
AT425R ²	5 (127)	Reversible Hi-speed	0.45 (.33)	13,000	7/16-20	4.3 (31) [122]	<0.8	93	5.3 (135)	2.8 (1.28)
AT475A ²		Inline		1,800		2.3 (17) [65]	14.9	87	16 (406)	6.8 (3.09)
AT435A ²		Jitter Bug	0.5 (.37)	8,000		3 (22) [85]	4.5	85	6.7 (171)	4.6 (2.09)
AT450BP ²	7 (177)	Angle Polisher	1 (.74)	2,700	5/8-11	4.8 (34) [136]	<2.5	84	15.7 (400)	5.5 (2.50)
AT401MCA ²	3 (76)	Micro Surface Prep	0.25 (.19)	15,000	1/4-20	2.1 (15) [59]	<2.5	84	4.7 (119)	.97 (.44)
AT402MCA ²	3 (76)	Micro Sander	0.25 (.19)	15,000	5/16-24	2.1 (15) [59]	<2.5	84	5.2 (133)	1.1 (.50)
AT403MCA ²	3 (76)	Micro Polisher	0.25 (.19)	6,000	5/16-24	2.2 (16) [62]	<2.5	86	5.6 (143)	1.3 (.60)
AT615 ²		Belt	0.5 (0.3)	20,000		4.2 (30) [119]	1.36	95	14.13 (359)	2.64 (1.20)
AT265A ²	3.5	Material Removal	0.4	3,600	5/16-24	3.7	0.69	88	8.1 (207)	1.8 (0.80)
AT1212 ²		Scaler		4,000 BPM		45	11.5	88	12.4 (316)	2.64 (1.2)
PT280THUGA ²		Material Removal Tool	0.45 (.33)	3,500		4 (28) [113]	2.8	85	12 (304)	2.4 (1.09)

Cutting Tools

Stock No.	Wheel Size, inches (mm)	Rated Power, hp (kW)	Free Speed SPM	Free Speed RPM	Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	Vibration Level, m/s ²	Sound Level dBA Pressure	Length, inches (mm)	Weight, lbs (kg)
PT250A ²	3 (76)	0.5 (.37)		22,000	2.7 (19) [76]	<2.5	84	7.2 (183)	1.2 (.55)
AT154R* ²	4 (101.5)	0.9 (.67)		16,000	3.6 (26) [102]	<.6	93	14.8 (376)	3.1 (1.4)
AT157R* ²	3 (76)	0.45 (.33)		20,000	3.5 (25) [99]	<3.8	94	7.3 (185)	1.9 (.86)
AT192A ²			11,000		1 (7) [28]	10.1	82	9.3 (235)	1.7 (.80)
AT194A ²			8,250		.70 (5) [20]	<6.6	84	6.7 (175)	1 (.45)
AT185 ²					11.3 (81) [320]	<2.5	48.6	9.3 (235)	2.6 (1.2)
AT195 ²					4 (29) [113]	<2.5	88	10 (254)	2.8 (1.3)
AT180C ²			3,500		4 (29) [113]	4.3	90	7.6 (194)	1.9 (.88)

*Blue-Point®

Grinders

Stock No.	Wheel Size, inches (mm)	Rated Power, hp (kW)	Free Speed SPM	Free Speed RPM	Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	Vibration Level, m/s ²	Sound Level dBA Pressure	Length, inches (mm)	Weight, lbs (kg)
PT450 ²		1.0		12,000	4.17 (30) [118]	8.93	86.3	9 (229)	3.25 (1.47)
AT415B* ²	4 1/2 (114)	0.86 (.64)		12,000	3.2 (23) [91]	5.1	83	10 (254)	4.2 (1.9)

*Blue-Point®

Die Grinder

Stock No.	Collet Size, inches	Rated Power, hp (kW)	Free Speed RPM	Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	Vibration Level, m/s ²	Sound Level dBA Pressure	Length, inches (mm)	Weight, lbs (kg)
PT100A ²	1/4	0.3 (.2)	25,000	1.4 (10) [40]	3.8	84	5.8 (149)	1.6 (.73)
PT110A ²	1/4	0.3 (.2)	25,000	1.4 (10) [40]	3.8	84	5.6 (144)	1.9 (.86)
PT200A ²	1/4	0.5 (.3)	22,000	2.7 (19) [76]	3.8	84	6.7 (170)	1.8 (.83)
PT210A ²	1/4	0.5 (.3)	22,000	3 (22) [85]	<2.5	84	6.6 (168)	2.0 (.93)
PT200AL ²	1/4	0.5 (.3)	22,000	1.4 (10) [40]	2.6	84	10.6 (269)	2.0 (.91)
PT400 ²	1/4	1.0 (.6)	25,000	4.17 (30) [118]	2.10	84.7	7.5 (190)	1.5 (.68)
PT410 ²	1/4	1.0 (.6)	12,000	4.17 (30) [118]	.78	81.8	7.5 (190)	2.0 (.91)
AT115 ²	1/4	0.2 (.15)	22,000	4 (29) [113]	<2.5	91	6.5 (165)	1.3 (.61)
AT118 ²	1/4	0.2 (.15)	20,000	2.1 (15) [59]	2.5	93	5.5 (140)	1.1 (.50)
AT105 ²	1/4	0.2 (.15)	22,000	4 (29) [113]	<2.5	91	6.5 (165)	1.3 (.61)
AT109* ²	1/4	0.2 (.15)	20,000	2.1 (15) [59]	2.5	93	5.5 (140)	1.1 (.50)
AT119 ²	1/4	.45 (.33)	20,000	3 (15) [59]	<6.92	100	6.81 (173)	1.1 (.50)
AT116 ²	1/4	0.2 (.15)	20,000	3 (15) [59]	2.5	100	6.5 (165)	1.1 (.50)
AT1070A ²	1/8		75,000	1 (7) [28]	2.0	72	5.3 (135)	.55 (.25)
AT1070RA ²	1/8		75,000	1 (7) [28]	2.0	72	5.9 (150)	.46 (.21)

* See p. 303 for AT109DGG Die Grinder Kit specifications.

² CE



WARNING



• Read safety messages about each type of Air Tool on the following pages and the safety precautions on pages W1 to W4

1", 3/4" Drive Impact Wrenches



IM1800



6" Long Anvil (L)



MG1200



Thru-Hole Anvil (P)



3" Long Anvil (L)



6" Extra Long Anvil (XL)

Super Duty Air Impact Wrenches

IM1800 Series 1" Drive.

- Convenient D-handle and side handle for less user fatigue
- Lightweight aluminum nose for better balance
- Standard and long anvils are thru-hole design for positive socket retention
- High torque to remove stubborn fasteners quicker
- Lightweight aluminum housing for less user fatigue
- 3 position speed control and full power reverse have more control when tightening or removing fasteners
- Twin hammer mechanism is durable and hard hitting
- Sealed in oil bath lubrication keeps impact mechanism lubricated for less wear and longer tool life

Super Duty Air Impact Wrenches

MG1200 Series 3/4" Drive.

- 1 pc magnesium housing assures precision alignment of components and reduces vibration
- Continuous oil bath lubrication reduces wear and increases life
- Twin hammer mechanism delivers hard hitting blows with fewer moving parts for longer tool life
- 6 vane rotor delivers maximum torque and speed to remove stubborn fasteners
- Cushion grip variable speed trigger reduces user fatigue
- Balanced design distributes weight evenly to increase control
- Anvil stops with release of the trigger to prevent throwing fasteners
- 1 hand reverse button for easy operation

Super Duty

Specifications	IM1800 [*]	IM1800L [*]	MG1200A [*]	MG1200AL [*]	MG1200AXL [*]	MG1200AP [*]
Drive Size, inches (mm)	1 (25)	1 (25)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)
Max. Torque, ft lbs (N•m)	1,800 (2,440)	1,800 (2,440)	1,200 (1,627)	1,200 (1,627)	1,200 (1,627)	1,200 (1,627)
Free Speed RPM	5,500	5,500	7,000	7,000	7,000	7,000
Blows per Minute	900	900	1,200	1,200	1,200	1,200
Extended Anvil Length, inches (mm)		6 (152)		3 (76)	6 (152)	
Anvil Type	Friction Ring w/ Thru-Hole	Thru-Hole	Friction Ring	Friction Ring w/ Thru-Hole	Friction Ring w/ Thru-Hole	Thru-Hole
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	6.7 (48) [190]	6.7 (48) [190]	6.4 (46) [181]	6.4 (46) [181]	6.4 (46) [181]	6.4 (46) [181]
Air Inlet Thread Size	1/2"-14 NPT	1/2"-14 NPT	3/8"-18 NPT	3/8"-18 NPT	3/8"-18 NPT	3/8"-18 NPT
Recommended Hose Size, inches	1/2	1/2	3/8	3/8	3/8	3/8
Vibration Level, m/s ²	8.5	8.5	2.02	2.02	2.02	2.02
Sound Level dBa Pressure	104	104	102	102	102	102
Length, inches (mm)	14 (356)	20 (508)	8 (203)	10 (254)	13 (330)	8 (203)
Weight, lbs (kg)	15 (6.8)	16 (7.3)	8 (3.6)	9 (4.09)	10 (4.5)	8 (3.6)
Vinyl Boot (included)			MG1200BOOT	MG1200BOOT	MG1200BOOT	MG1200BOOT

Impact wrench suffix: P = Pinned anvil, L = Long anvil, XL = Extra long anvil. Standard anvil for applications where frequent socket change is required. Pinned anvil for high torque applications where socket security is a priority. Long or Extra long anvil for tight applications that require extra reach.

^{*} CE

1", 3/4" Drive Impact Wrenches (Blue-Point®)



AT1300A



AT670



AT126



6" Long Anvil (L)



6" Long Anvil (L)



6" Long Anvil (L)

Heavy Duty Air Impact Wrenches
AT1300A Series 1" Drive.

- Workhorse performance for use on trucks, buses and heavy equipment
- Steel nose for rugged, demanding applications
- Pin clutch style impact mechanism for fast startup and high torque requirements
- Thru-hole anvil

Heavy Duty Air Impact Wrenches
AT670 Series 3/4" Drive.

- Lightweight composite housing with aluminum nose
- 3 position thumb operated forward/reverse lever
- Bottom handle exhaust
- Twin hammer mechanism

Heavy Duty Air Impact Wrenches
AT126 Series 3/4" Drive.

- rease lubrication system prolongs tool life
- Jumbo single hammer impact mechanism for greater power and durability
- Handle diffused exhaust directs exhaust away from user
- 6" long anvil available for extended reach (AT126L)

Heavy Duty

Specifications	AT1300A ²	AT1300AL ²	AT670 ²	AT670L ²	AT126 ²	AT126L ²
Drive Size, inches (mm)	1 (25)	1 (25)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)
Max. Torque, ft lbs (N•m)	3,000 (4,068)	2,700 (3,661)	1,050 (1,423)	1,050 (1,423)	1,100 (1,491.6)	1,100 (1,491.6)
Free Speed RPM	4,000	4,000	6,700 (F), 6,900 (R)	6,700 (F), 6,900 (R)	5,500 (F), 6,000 (R)	5,500 (F), 6,000 (R)
Blows per Minute	505	505	1,050	1,050	1,000	1,000
Extended Anvil Length, inches (mm)		6 (152)		6 (152)		6 (152)
Anvil Type	Friction Ring w/Thru-hole	Friction Ring w/Thru-hole	Friction Ring	Friction Ring	Friction Ring	Friction Ring
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	5.3 (38) [150]	5.3 (38) [150]	5.6 (40) [159]	5.6 (40) [159]	5.3 (38) [150.1]	5.3 (38) [150.1]
Air Inlet Thread Size	1/2"-14 NPT	1/2"-14 NPT	3/8"-18 NPT	3/8"-18 NPT	3/8"-18 NPT	3/8"-18 NPT
Recommended Hose Size, inches	1/2	1/2	3/8	3/8	3/8	3/8
Vibration Level, m/s ²	4.4	4.4	19.7	19.7	24.9	24.9
Sound Level dBa Pressure	92	92	99	99	96	96
Length, inches (mm)	21 (533)	27 (686)	8.5 (215)	13.5 (343)	8.8 (224)	14.8 (376)
Weight, lbs (kg)	25.6 (11.6)	28 (12.7)	7.5 (3.44)	8.8 (4)	12.40 (5.62)	13.7 (6.21)
Vinyl Boot (optional)						

Impact wrench suffix: L = Long anvil. Standard anvil for applications where frequent socket change is required.

Long anvil for tight applications that require extra reach.

² CE



WARNING



- Use only impact sockets and accessories with impact wrenches
- Read safety precautions on pages W1 to W4

1/2" Drive Impact Wrenches



MG725



Pinned Anvil (P)



3" Long Anvil (L)

MG725 Series 1/2" Drive.

- 1 pc machined magnesium housing is extremely durable, lightweight and provides alignment of internal parts to reduce vibration
- 8 vane rotor provides faster motor startup and greater performance with more torque
- Patented cushion grip helps insulate user's hand from cold and reduces vibration to reduce user fatigue
- Patented tip valve trigger provides increased air flow and greater tool control
- Twin hammer impact mechanism is durable and hard hitting to quickly remove stubborn fasteners
- Sealed in oil bath lubrication keeps impact mechanism lubricated for less wear
- Slim style nose is ideal for working in restricted access areas
- Anvil stops with release of the trigger to prevent throwing of fasteners
- Cushion grip trigger button delivers improved comfort and control

1/2" Drive Super Duty

Specifications	MG725 [*]	MG725L [*]	MG725P [*]
Drive Size, inches (mm)	1/2 (13)	1/2 (13)	1/2 (13)
Max. Torque, ft lbs (N•m)	810 (1,098)	810 (1,098)	810 (1,098)
Free Speed RPM	9,800	9,800	9,800
Blows per Minute	1,270	1,270	1,270
Extended Anvil Length, inches (mm)		3 (76)	
Anvil Type	Friction Ring	Friction Ring	Pinned
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	4.0 (29) [113]	4.0 (29) [113]	4.0 (29) [113]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8	3/8
Vibration Level, m/s ²	6.6	6.6	6.6
Sound Level dBa Pressure	99.9	99.9	99.9
Length, inches (mm)	7.7 (194)	9.7 (245)	7.7 (194)
Weight, lbs (kg)	4.8 (2.2)	5.0 (2.3)	4.8 (2.2)
Vinyl Boot (included)	MG725B00T	MG725B00T	MG725B00T

Impact wrench suffix: P = Pinned anvil, L = Long anvil. Standard anvil for applications where frequent socket change is required. Pinned anvil for high torque applications where socket security is a priority. Long anvil for tight applications that require extra reach.

^{*} CE

1/2" Drive Impact Wrenches (Blue-Point®)



AT123B 1/2" Drive.

- Twin hammer impact mechanism provides harder hitting blows
- Steel nose case with lightweight aluminum housing
- Pressure feed grease lubrication
- Convenient slide bar forward/reverse



2" Long Anvil (L)

AT123B



AT555B 1/2" Drive.

- Powerful twin hammer clutch
- Reverse bias motor provides additional breakaway torque
- Built-in power regulator
- Molded ergonomic handle improves grip

AT555B



AT570 1/2" Drive.

- Use on automotive and truck fasteners
- Shot peen anvils for improved durability
- Reverse Bias motor provides additional breakaway torque
- 3 position regulator to control power
- One handed forward/reverse lever for user convenience
- Composite housing with aluminum nose combine to deliver a durable, lightweight and balanced unit
- Twin hammer impact mechanism delivers hard hitting blows to quickly remove stubborn fasteners

AT570



ATC500 1/2" Drive.

- Aluminum front housing and composite rear housing combine to deliver a durable, lightweight and balanced unit
- Ribbed, textured handle provides maximum comfort and control
- 4 position power regulator for greater job versatility
- Twin hammer impact mechanism for longer life and greater power

ATC500

Heavy Duty

Specifications	AT123B ²	AT123BL ²	AT555B ²	AT570 ²	ATC500 ²
Drive Size, inches (mm)	1/2 (13)	1/2 (13)	1/2 (13)	1/2 (13)	1/2 (13)
Max. Torque, ft lbs (N•m)	450 (610)	450 (610)	475 (644)F, 550 (745)R	570 (773)	525 (712)
Free Speed RPM	9,000	9,000	6,800 (F), 7,500 (R)	6,900 (F), 7,000 (R)	10,500
Blows per Minute	1,000	1,000	1,000	1,050	1,250
Extended Anvil Length, inches (mm)		2 (51)			
Anvil Type	Friction Ring	Friction Ring	Friction Ring	Friction Ring	Friction Ring
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	4.2 (30) [119]	4.2 (30) [119]	2.2 (16) [62]	5.0 (36) [142] F 5.3 (38) [150] R	3.5 (25) [99]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8	3/8	3/8	3/8
Vibration Level, m/s ²	3.35	13	3.75	6.08	<2.5
Sound Level dBa Pressure	92	92	89	95	95.5
Length, inches (mm)	7.3 (185)	9.2 (236)	7.8 (198)	7.24 (184)	7.8 (198)
Weight, lbs (kg)	5.8 (2.6)	6.1 (2.8)	5.8 (2.6)	4.08 (1.87)	5 (2.3)
Vinyl Boot (optional)	AT123-45	AT123-45	AT555B00T	AT570B00T	

Impact wrench suffix: L = Long anvil. Standard anvil for applications where frequent socket change is required.

Long anvil for tight applications that require extra reach.

² CE



WARNING



- Use only impact sockets and accessories with impact wrenches
- Read safety precautions on pages W1 to W4

3/8" Drive Impact Wrenches



MG325



MG3255



Pinned Anvil (P)



2" Long Anvil (L)



2" Long Pinned Anvil (LP)

MG325 3/8" Drive and MG3255 1/2" Drive

MG325 Features:

- 1 pc magnesium housing for precise internal component alignment to reduce vibration
- Twin hammer impact mechanism delivers hard hitting blows with fewer moving parts to quickly remove stubborn fasteners
- Continuous oil bath lubrication prolongs tool life by reducing premature component wear
- 8 vane motor delivers maximum speed and torque
- Lightweight, balanced design distributes weight evenly to reduce user fatigue
- One handed forward/reverse lever for user convenience
- Cushion grip handle insulates user's hand from cold and absorbs vibration
- Comfort cushion trigger button allows the user to work comfortably with less finger stress
- Anvil stop feature means anvil will stop when trigger is released to avoid throwing fasteners

MG3255 Features:

- Same features as M 325, except for a 1/2" drive anvil
- Compact, yet powerful, 1/2" model is ideal for working in confined areas

MG3255P (Pinned anvil)

- Same features as M 3255, except for a pinned anvil

MG3255L (Long anvil)

- Same features as M 3255, except for a long anvil

MG3255LP (Long pinned anvil)

- Same features as M 3255, except for a long pinned anvil

Super Duty

Specifications	MG325 ²	MG325P ²	MG3255 ²	MG3255L ²	MG3255P ²	MG3255LP ²
Drive Size, inches (mm)	3/8 (10)	3/8 (10)	1/2 (13)	1/2 (13)	1/2 (13)	1/2 (13)
Max. Torque, ft lbs (N•m)	325 (440)	325 (440)	325 (440)	325 (440)	326 (442)	325 (440)
Free Speed RPM	10,700	10,700	10,700	10,700	10,700	10,700
Blows per Minute	1,400	1,400	1,400	1,400	1,400	1,400
Extended Anvil Length, inches (mm)				2 (51)		2 (51)
Anvil Type	Friction Ring	Pinned	Friction Ring	Friction Ring	Pinned	Pinned
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	2.4 (17) [68]	2.4 (17) [68]	2.4 (17) [68]	2.4 (17) [68]	2.4 (17) [68]	2.4 (17) [68]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8	3/8	3/8	3/8	3/8
Vibration Level, m/s ²	4.54	4.54	4.54	4.54	4.54	4.54
Sound Level dBa Pressure	99.1	99.1	99.1	99.1	99.1	99.1
Length, inches (mm)	6.1 (155)	6.1 (155)	6.1 (155)	7.6 (193)	6.1 (155)	7.6 (193)
Weight, lbs (kg)	2.8 (1.3)	2.8 (1.3)	2.8 (1.3)	2.9 (1.3)	2.8 (1.3)	2.9 (1.3)
Vinyl Boot (included)	MG325B00T	MG325B00T	MG325B00T	MG325B00T	MG325B00T	MG325B00T

Impact wrench suffix: P = Pinned anvil, L = Long anvil, LP = Long pinned anvil. Standard anvil for applications where frequent socket change is required. Pinned anvil for high torque applications where socket security is a priority. Long anvil for tight applications that require extra reach.

² C E

3/8", 1/4" Drive Impact Wrenches (Blue-Point®)



AT380

AT380 3/8" Drive.

- Twin hammer impact mechanism
- Slim style nose for restricted access applications
- Variable speed trigger for superior control
- Built-in 5 position air regulator



AT321

AT321 3/8" Drive.

- Single hammer impact mechanism
- Steel nose case with lightweight aluminum housing
- Convenient slide bar forward/reverse bar width regulator



AT370

AT370 3/8" Drive.

- Use on automotive and truck fasteners
- Shot peened anvils for improved durability
- Reverse Bias motor provides additional breakaway torque
- 3 position regulator to control power
- One handed forward/reverse lever for use convenience
- Composite housing with aluminum nose combine to deliver a durable, lightweight and balanced unit
- Twin hammer impact mechanism delivers hard hitting blows to quickly remove stubborn fasteners



AT351

AT351 3/8" Drive.

- Built-in air inlet swivel
- 8 position power regulator
- Rotary action air motor is ball bearing mounted for balance, speed and power
- Ideal tool for small engine repair and bench work



AT235MCA

AT235MCA 1/4" Drive Micro.

- Fast speed
- Lightweight composite housing with molded comfort grip
- Convenient one handed forward/reverse lever
- Oversized trigger with variable speed

3/8", 1/4" Drive Impact

Specifications	AT380 ²	AT321 ²	AT370 ²	AT351 ²	AT235MCA ²
Drive Size, inches (mm)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	1/4 (6)
Max. Torque, ft lbs (N•m)	160 (216)	180 (224)	320 (434)	175 (237)	25 (34)
Free Speed RPM	10,000	11,000	10,000 (F), 11,000 (R)	9,700	13,000
Blows per Minute	1,050	1,500	1,050	1,200	2,900
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	3.4 (24) [95]	3.8 (27) [108]	4.4 (326) [125] F, 4.7 (34) [133] R	2.5 (18) [71]	1.67 (12) [47]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8	3/8	3/8	3/8
Vibration Level, m/s ²	3.5	9.8	3.25	3.09	<2.5
Sound Level dBA Pressure	94	100	92	96.6	82
Length, inches (mm)	6.3 (160)	6.1 (155)	6.3 (160)	7.6 (194)	6.2 (158)
Weight, lbs (kg)	2.7 (1.2)	2.9 (1.3)	2.62 (1.19)	2.5 (1.2)	1.4 (.64)
Vinyl Boot (optional)	AT380BOOT	AT321-44	AT370BOOT	—	—

² CE



WARNING



- Use only impact sockets and accessories with impact wrenches
- Read safety precautions on pages W1 to W4

3/8", 1/4" Drive Ratchets



FAR72C



FAR7200

FAR72C 3/8" Drive.

- Dual pawls for reduced vibration
- Steel wear bushings to prevent ratchet head wear
- Adjustable exhaust directs airflow away from work area
- "Stop lock" pins prevent ratchet pawl lockup
- Easy access zerk fitting allows ratchet head lubrication for longer tool life
- Lightweight aluminum handle provides a sure grip for easy control

FAR7200 3/8" Drive.

- Muffler bypass allows tool to be used in quiet mode or full power
- Tip valve style trigger is easy to feather for greater control
- Cushion grip handle for added comfort and control
- Heavy duty motor and crank add durability to handle torque loads
- Steel wear bushings to prevent ratchet head wear
- Large selector knob is easy to turn with greasy hands to change direction



FAR2500



FAR2505



FAR25A

FAR2500 1/4" Drive and FAR2505 3/8" Drive Mini Ratchets.

- Balanced, lightweight housing for superior control with less user fatigue
- Soft grip handle increases comfort, reduces vibration and insulates against the cold
- Hard coated motor plates help prevent scoring for longer tool life
- Improved rotor vanes provide more power and speed for greater performance in low pressure environments
- Large, lightweight selector knob is easy to turn with greasy hands, easy to reverse direction
- Zerk fitting in selector knob allows ratchet head to be lubricated for longer tool life
- Robust head design for maximum strength and durability
- All ball bearing construction and high strength alloy steel gear system for increased durability

FAR25A 1/4" Drive.

- Air motor vanes resist wear, chipping, cracking and moisture
- Needle bearing supported drive shaft provides a smooth running tool
- Ergonomic handle design provides a sure grip and reduces fatigue
- Paddle style variable speed trigger is spring loaded for easy control
- Directional muffler rotates exhaust away from the user
- Lightweight clamshell housing easily accesses restricted areas

Air Ratchets

Specifications	FAR72C ²	FAR7200 ²	FAR2505 ²	FAR2500 ²	FAR25A ²
Drive Size, inches (mm)	3/8 (10)	3/8 (10)	3/8 (10)	1/4 (6)	1/4 (6)
Torque Range, ft lbs (N•m)	5 - 65 (6 - 88)	5 - 70 (7 - 97) open mode 5-50 (7-67) quiet mode	0 - 35 (6 - 47)	0 - 35 (6 - 47)	5 - 25 (6 - 34)
Free Speed RPM	225	260 (open mode); 200 (quiet mode)	235	235	225
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	2.7 (19) [76]	4.5 (32) [127]	1.4 (10) [40]	1.4 (10) [40]	1.4 (10) [40]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8	3/8	3/8	3/8
Vibration Level, m/s ²	5.3	5.2	6.2	6.2	6.2
Sound Level dBA Pressure	90	93 (open mode) 87 (quiet mode)	85	84	88
Length, inches (mm)	11.8 (300)	12.1 (308)	7.7 (197)	7.8 (197)	6.7 (171)
Weight, lbs (kg)	3 (1.3)	3 (1.3)	1.4 (.6)	1.4 (.66)	1.2 (.57)
Vinyl Boot (included)	YA889A	YA889A	YA905	YA905	YA888

² CE

1/2", 3/8", 1/4" Drive Ratchets (Blue-Point®)



AT705B

AT705B 1/2" Drive.

- 1/2" drive ratchet in a 3/8" drive body
- Ball bearing mounted motor for longer tool life



AT704

AT704 3/8" Drive.

- Lightweight aluminum housing
- Rugged ball bearing mounted air motor and precision planetary gear system
- Easy to use variable speed throttle plus adjustable air regulator



AT700F

AT700F 3/8" Drive.

- Lightweight aluminum housing
- Rugged ball bearing mounted air motor and precision planetary gear system
- Easy to use variable speed throttle plus adjustable air regulator



AT702

AT702 3/8" Drive High Torque.

- Flywheel mechanism
- Rugged ball bearing mounted air motor coupled with precision planetary gear system
- Easy to use variable speed throttle and adjustable air regulator



AT738

AT738 3/8" Drive.

- Reactionless mechanism absorbs kickback when running fasteners tight
- High RPM removes fasteners quickly
- Adjustable air regulator
- Ideal tool for spark plugs, water pumps, shocks and muffler clamps



AT203

AT203 1/4" Drive.

- Lightweight aluminum housing
- Rugged ball bearing mounted air motor and precision planetary gear system
- Easy to use variable speed throttle plus adjustable air regulator



AT200D

AT200D 1/4" Drive.

- Lightweight aluminum housing
- Rugged ball bearing mounted air motor and precision planetary gear system



AT204

AT204 1/4" Drive Mini.

- Ideal for working in tight quarters
- Head clearance is less than 3/4"
- Includes variable speed trigger, adjustable air regulator and 5 nylon braided whip hose for maneuverability and control
- Polished aluminum housing provides strength and durability

Air Ratchets

Specifications	AT705B ²	AT704 ²	AT700F ²	AT702 ²	AT738 ²	AT203 ²	AT200D ²	AT204 ²
Drive Size, inches (mm)	1/2 (13)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	1/4 (6)	1/4 (6)	1/4 (6)
Torque Range, ft lbs (N•m)	5 - 50 (6 - 68)	5 - 55 (6 - 75)	5 - 45 (6 - 61)	5 - 60 (6 - 81)	0 - 60 (0 - 81)	5 - 25 (6 - 34)	5 - 20 (6 - 27)	5 - 22 (6 - 30)
Free Speed RPM	150	200	150	200	350	285	150	275
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	3.0 (22) [85]	3.9 (28) [111]	3.0 (22) [85]	3.0 (22) [85]	4.1 (29) [113]	3.1 (22) [88]	1.4 (10) [40]	2.4 (17) [68]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Vibration Level, m/s ²	8.7	<3.9	8.7	12.6	5.9	<4.4	3.3	<1.7
Sound Level dBa Pressure	89	101	89	95	89	95	85	80
Length, inches (mm)	10.7 (273)	10.5 (266)	10.1 (257)	10.4 (265)	10.4 (265)	7.4 (188)	8.7 (222)	4.9 (127)
Weight, lbs (kg)	2.5 (1.14)	3.3 (1.5)	3.5 (1.6)	2.4 (1.1)	3 (1.3)	1.2 (.57)	1.1 (.50)	1.4 (.66)
Vinyl Boot (included)	AT700E49A	—	AT700E49A	AT700E49A	AT738B00T	—	AT200D22A	—

² C E



WARNING



• Read safety precautions on pages W1 to W4

1/2", 3/8" Drills



PDR5000A



PDR3000A

PDR5000A 1/2" Reversible.

- 5 vane air motor delivers high torque power for added durability
- Reversible for added versatility
- 3 planet industrial strength gear train provides durability for heavy duty applications
- Precise .0025" chuck runout for precision drilling
- Includes side handle for added control in high torque drilling applications

PDR3000A 3/8" Reversible.

- Top mounted forward/reverse switch allows 1 hand operation
- Internal ball bearing construction for smooth operation
- Insulated cushion grip to reduce cold and vibration
- Reversible for added versatility
- Variable speed trigger for added control

1/2" and 3/8" Capacity Drills

Specifications	PDR5000A †	PDR3000A †
Chuck Size, inches (mm)	1/2 (13)	3/8 (10)
Rated Power, hp (kW)	0.45 (.33)	0.45 (.33)
Torque Range, in lbs (N•m)	0 - 300 (0 - 34)	0 - 50 (0 - 6)
Free Speed RPM	450	2500
Spindle Thread, inches	1/2-20 UNF	3/8-24 UNF
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	3.8 (27) [108]	3.5 (25) [99]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8
Vibration Level, m/s ²	0.4	3.5
Sound Level dBa Pressure	85.2	83.6
Length, inches (mm)	8.7 (222)	7 (178)
Weight, lbs (kg)	3 (1.3)	2.5 (1.1)
Auxiliary Handle	PDR5000-40A	
Keyless Chuck (optional)		PDR3A-2

† CE



AT184

AT184 Spotweld Drill (Blue-Point®).

- Twist depth control collar allows precise setting of drilling depth up to 1/4"
- 2 speed trigger for low or high speeds
- Includes (1) 5/16" (8 mm) drill bit and removeable clamp arm

Spotweld Drill

Specifications	AT184 †
Chuck Size, inches (mm)	5/16 (8)
Rated Power, hp (kW)	
Torque Range, in lbs (N•m)	
Free Speed RPM	1,800
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	8.4 (60) [238]
Air Inlet Thread Size	1/4"-18 NPT
Recommended Hose Size, inches	3/8
Vibration Level, m/s ²	<1.0
Sound Level dBa Pressure	84
Length, inches (mm)	7.9 (201)
Weight, lbs (kg)	3.1 (1.4)
Spotweld Drill Bit (8 mm) (included)	AT183-50
Spotweld Drill Bit (6.5 mm) (optional)	AT183-43
Spotweld Drill Bit (10 mm) (optional)	AT183-51
Support Arm 5.5 (optional)	AT184-26A

† CE

1/2", 3/8", 1/4" Drills (Blue-Point®)



AT5000

AT5000 1/2" Reversible.

- Chuck key conveniently stores in handle
- Variable speed trigger
- Convenient, 1 hand forward/reverse operation
- Bottom handle exhaust directs exhaust away from the work



AT3000

AT3000 3/8" Reversible.

- Convenient, 1 hand forward/reverse operation
- Bottom handle diffused exhaust
- Comfort grip handle
- Keyless chuck



AT811

AT811 3/8" Angle.

- Convenient, 1 hand pushbutton forward/reverse
- Rear exhaust keeps air away from the work area
- Ball bearing construction for longer tool life



AT801MCA

AT801MCA 1/4" Micro.

- Small size ideal for working in confined areas
- Durable composite housing stands up to rugged use
- Reverse lever conveniently positioned for 1 hand operation
- Oversize variable speed trigger

1/4", 3/8" and 1/2" Capacity Drills

Specifications	AT5000 ²	AT3000 ²	AT811 ²	AT801MCA
Chuck Size, inches (mm)	1/2 (13)	3/8 (10)	3/8 (10)	1/4 (6)
Rated Power, hp (kW)	0.45 (.33)	0.45 (.33)	0.25 (.19)	0.25 (.19)
Torque Range, in lbs (N•m)	0 - 120 (0 - 14)	0 - 40 (0 - 4.5)	0 - 55 (0 - 6)	0 - 18 (0 - 2)
Free Speed RPM	490	1,675	1,320	1,800
Spindle Thread, inches	1/2-20 UNF	3/8-24 UNF	3/8-24 UNF	3/8-24 UNF
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	3.8 (27) [108]	3.5 (25) [99]	3.4 (24) [95]	1.9 (13.6) [53.8]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8	3/8	3/8
Vibration Level, m/s ²	<2.5	<2.5	<.8	<2.5
Sound Level dBa Pressure	82	82	97	84
Length, inches (mm)	9 (229)	7.6 (194)	8.2 (208)	7.2 (183)
Weight, lbs (kg)	3.8 (1.7)	3.2 (1.4)	2.5 (1.1)	1.5 (.68)
Auxiliary Handle	PDAH1A			
Vinyl Boot (optional)	AT5000B00T	AT3000B00T		

² CE



WARNING



• Read safety precautions on pages W1 to W4

Hammers



PH3050B



PH3050BCH4



AT2050

PH3050B Super Duty.

- Dual elastomer cushions absorb shock and vibration to reduce user fatigue
- Phenolic (Kevlar® reinforced) flutter disc provides long life
- Direct multiport front exhaust keeps air and debris away from user
- High grade steel barrel provides greater strength
- Variable speed soft touch trigger provides featherability for greater control
- 4 position built in air regulator varies power for different applications
- Air line screen helps prevent foreign particles from clogging trigger mechanism
- Hardened steel piston delivers harder blows for maximum impact
- Includes PH200D Quick Change Chuck Retainer

PH3050BCH4² Set

Includes:

Stock No.	Description
PH3050B	Heavy Duty Air Hammer
PH200D	Retainer Chuck
PHG55A	Flat Chisel, 3/4" wide
PHG57A	Double Blade Panel Cutter, 3/4" wide
PHG59A	Taper Punch, 3/16" tip
PHG87A	Muffler Cutter, 17/32" wide
PB1D	Storage Box

² CE

AT2050 Heavy Duty (Blue-Point®).

- Variable speed trigger with built-in speed regulator
- Quick change chuck makes bit changing easy
- Comfort grip handle for less user fatigue
- Hard hitting to get the job done quicker



PH200D

PH200D Universal Quick Change Chuck Retainer.

- Use for fast and easy insertion/removal of air hammer bits
- Nonturning insert design reduces wear for longer tool life
- Constructed from high grade steel; insert is constructed from durable polyurethane elastomer
- Universal design fits most air hammers
- Knurled chrome collar provides a solid gripping surface, even with greasy hands

Super and Heavy Duty

Specifications	PH3050B ²	AT2050 ²
Bore Diameter, inches (mm)	3/4 (19)	3/4 (19)
Blows per Minute	2,500	3,400
Piston Stroke, inches	3	2.75
Shank Opening, inches (mm)	0.401 (10.1)	0.401 (10.1)
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	1.8 (13) [51]	2.5 (18) [71]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	5/16	5/16
Vibration Level, m/s ²	1.5	3.0
Vibration Level, m/s ²	2.8	3 m/s ²
Sound Level dBa Pressure	103	99
Length, inches (mm)	8.9 (227)	7.4 (187)
Weight, lbs (kg)	5.9 (2.7)	4.6 (2.1)
Vinyl Boot (optional)	PH3050B00T	AT2050B00T

² CE

PT 100 and 200 Series

- Ergonomic handle is contoured to fit comfortably in the hand as well as absorb vibration
- Adjustable rear exhaust outlet allows adjustment of exhaust away from the work area while keeping material removal away from operator's face
- Thermally balanced air motor acts as internal cooling system to protect moving parts, efficiently routing air to control surface temperature of tool
- Built-in 10 position power/speed regulator precisely matches tool speed to job requirements
- Easy bit changing using standard wrenches
- Safety style variable speed paddle trigger helps prevent accidental starting of tool
- Low dBA rating reduces fatigue from noise
- Dual taper collet system for improved bit retention

PT100 Mini Series



PT100A



PT110A

PT200 Standard Series



PT200A



PT210A



PT200AL

PT400 Heavy Duty Series



PT400



PT410

PT400 Heavy Duty 1 HP Die Grinder.

- 1 HP Thermally balanced air motor
- Dual taper collet system
- Ergonomic comfort grip handle

PT410 Heavy Duty 1 HP 90° Angle Die Grinder.

- 1 HP Thermally balanced air motor
- Dual taper collet system
- Paddle style safety trigger
- Includes Snap-on® INSTINCT® side handle added control

Straight, Angle Head and Extended Shaft - 1/4" Collet

Specifications	Mini Series		Standard Series			Heavy Duty Series	
	PT100A ²	PT110A ²	PT200A ²	PT210A ²	PT200AL ²	PT400 ²	PT410 ²
Collet Size, inches	1/4	1/4	1/4	1/4	1/4	1/4	1/4
Rated Power, hp (kW)	0.3 (.2)	0.3 (.2)	0.5 (.3)	0.5 (.3)	0.5 (.3)	1	1
Free Speed RPM	25,000	25,000	22,000	22,000	22,000	25,000	12,000
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	1.4 (10) [40]	1.4 (10) [40]	2.7 (19) [76]	3 (22) [85]	1.4 (10) [40]	4.17 (30) [118]	4.17 (30) [118]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8	3/8	3/8	3/8	3/8 (10 mm)	3/8 (10 mm)
Vibration Level, m/s ²	3.8	3.8	3.8	<2.5	2.6	2.10	.78
Sound Level dBA Pressure	84	84	84	84	84	84.7	81.8
Length, inches (mm)	5.8 (149)	5.6 (144)	6.7 (170)	6.6 (168)	10.6 (269)	7.5 (190)	7.5 (190)
Weight, lbs (kg)	1.6 (.73)	1.9 (.86)	1.8 (.83)	2.0 (.93)	2.0 (.91)	1.5 (.68)	2.0 (.91)

² C E



WARNING



- Use air hammer accessories only for intended purpose
- Read safety precautions on pages W1 to W4

Die Grinders (Blue-Point®)



AT118

AT118 Right Angle Mini.

- Comfort grip insulates from cold and vibration
- Small size fits in palm
- High quality bearings improve productivity with less repair
- Rear exhaust directs air away from work area



AT115

AT115 Standard.

- Comfort grip insulates from cold and vibration
- Brass bezel and air inlet provide durability and long life
- High quality bearings improve productivity with less repair
- Rear exhaust directs air away from work area



AT105

AT105 Standard.

- Aluminum housing for long lasting durability
- Intended for most standard deburring operations
- High quality bearings improve productivity with less repair
- Rear exhaust directs air away from work area



AT109

AT109 Right Angle Mini.

- Aluminum housing for long lasting durability
- Compact mini design with 90° head for easy access
- High quality bearings improve productivity with less repair
- Rear exhaust directs air away from work area



AT119

AT119 Mini Angle Die Grinder (115) .

- 115° offset head provides a more ergonomic grinding position
- Thread on style disc provides a more compact head
- (1) 2" quick change disc included so tool is ready for your abrasive pad
- CE



AT116

AT116 Mini Angle Die Grinder (115) .

- 115° offset head provides a more ergonomic grinding position
- Quick change 1/4" collet for faster job changes
- Comfort grip over mold
- Variable speed regulator for precision control
- Rear exhaust

Straight and Angle Head - 1/4" Collet

Specifications	AT118 ²	AT115 ²	AT105 ²	AT109* ²	AT119 ²	AT116 ²
Collet Size, inches	1/4	1/4	1/4	1/4	1/4	1/4 QC
Rated Power, hp (kW)	0.2 (.15)	0.2 (.15)	0.2 (.15)	0.2 (.15)	0.45 (.33)	0.2 (.15)
Free Speed RPM	20,000	22,000	22,000	20,000	20,000	20,000
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	2.1 (15) [59]	4 (29) [113]	4 (29) [113]	2.1 (15) [59]	3 (15) [59]	3 (15) [59]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8	3/8	3/8	3/8	3/8
Vibration Level, m/s ²	2.5	<2.5	<2.5	2.5	<6.92	2.5
Sound Level dBa Pressure	104	102	102	104	100	100
Length, inches (mm)	5.5 (140)	6.5 (165)	6.5 (165)	5.5 (140)	6.81 (173)	6.5 (165)
Weight, lbs (kg)	1.1 (.50)	1.3 (.61)	1.3 (.61)	1.1 (.50)	1.1 (50)	1.1 (50)

* See p. 303 for AT109D K die grinder kit specifications.

CE



AT1070A

Pencil Die Grinders

Specifications	AT1070A ²	AT1070RA ²
Collet Size, inches	1/8	1/8
Rated Power, hp (kW)		
Free Speed RPM	75,000	75,000
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	1 (7) [28]	1 (7) [28]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8
Vibration Level, m/s ²	2.0	2.0
Sound Level dBa Pressure	72	72
Length, inches (mm)	5.3 (135)	5.9 (150)
Weight, lbs (kg)	.55 (.25)	.46 (.21)

CE



AT1070RA

AT1070A Pencil.

- Twist action variable speed control
- 5' (1.5 m) long protected air hose
- Used with 1/8" shank grinding accessories rated a minimum of 75,000 rpm
- Ideal for tight spaces and easy cleaning of dies, rotors and brake pads
- CE

AT1070RA Pencil.

- Same as AT1070A except features right angle head



PT250A

PT250A 3" Cut Off Tool.

- Adjustable cutting wheel guard rotates to any safe and convenient position
- Adjustable rear exhaust keeps exhaust away from the work area
- Thermally balanced air motor acts as internal cooling system to protect moving parts and efficiently routes air to control surface temperature of tool
- 10 position power/speed regulator precisely matches tool speed to job requirements



AT154R

AT154R 4" Reversible Cut Off Tool (Blue-Point®).

- 14.8" overall length provides extended reach for easier access
- Reverse mode controls the direction of sparks for safety
- Exhaust diffused through the rear of tool away from work surface
- Side handle provides additional tool control



AT157R

AT157R 3" Reversible Cut Off Tool (Blue-Point).

- Reversible to change direction of sparks
- Built-in speed regulator for fine tuning
- Side handle provides additional tool control
- Extended reach for hard to access areas

Cut Off Tools

Specifications	PT250A ²	AT154R ²	AT157R ²
Wheel Size, inches (mm)	3 (76)	4 (101.5)	3 (76)
Rated Power, hp (kW)	0.5 (.37)	0.9 (.67)	0.45 (.33)
Free Speed RPM	22,000	16,000	20,000
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	2.7 (19) [76]	3.6 (26) [102]	3.5 (25) [99]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8	3/8
Vibration Level, m/s ²	<2.5	<.6	<3.8
Sound Level dBa Pressure	84	93	94
Length, inches (mm)	7.2 (183)	14.8 (376)	7.3 (185)
Weight, lbs (kg)	1.2 (.55)	3.1 (1.4)	1.9 (.86)
3" Cutter Wheels (36 grit) (optional)	AT150-20A		AT150-20A
3" Cutter Wheels (54 grit) (optional)	AT150C29A		AT150-29A
4" Cutter Wheels		AT154RWHLMP	

² C E

Grinders



PT450

PT450 4 1/2" Angle Grinder.

- 12,000 rpm Maximum Free Speed
- 1 HP thermally balanced air motor
- Adjustable Wheel guard
- Lightweight, only 3 1/4 lbs
- Features Snap-on® INSTINCT® Screwdriver Side Handle



AT415B

AT415B 4 1/2" Compact Grinder (Blue-Point).

- Includes 1 grinding disc

Grinders

Specifications	PT450 ²	AT415B ²
Wheel Size, inches (mm)	4 1/2 (114)	4 1/2 (114)
Rated Power, hp (kW)	1.0	0.86 (.64)
Free Speed RPM	12,000	12,000
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	4.7 (30) [118]	3.2 (23) [91]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8
Vibration Level, m/s ²	8.93	5.1
Sound Level dBa Pressure	86.3	83
Length, inches (mm)	9 (229)	10 (254)
Weight, lbs (kg)	3.25 (1.47)	4.2 (1.9)
Grinding Discs	PT450-WH	AT415A51

² C E



WARNING



- Do not operate without the guard
- Do not use grinder accessories above their maximum rated rpm
- Read safety precautions on pages W1 to W4

Cutting Tools (Blue-Point®)



AT192A

AT192A High Speed Reciprocating Saw.

- Adjustable blade guard to control cutting depth
- Teflon® coated piston for smooth operation and durability
- Comfort grip handle with safety lever throttle
- Includes bimetal blades: (1) 18PTI, (1) 24TPI, (1) 32TPI



AT194A

AT194A Micro Air Saw.

- Compact size for easy access in tight quarters
- uarded hose extension helps prevent damage to finished surfaces
- Performs straight or scroll cuts in metal and plastic
- Includes bimetal blades: (1) 18PTI, (1) 24TPI, (1) 32TPI

Air Saws

Specifications	AT192A ²	AT194A ²
Free Speed, rpm	11,000	8,250
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	1 (7) [28]	.70 (5) [20]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8
Vibration Level, m/s ²	10.1	<6.6
Sound Level dBa Pressure	94	87
Length, inches (mm)	9.3 (235)	6.7 (175)
Weight, lbs (kg)	1.7 (.80)	1 (.45)
Replacement Blades		
Bi-Metal Blade, 18TPI, 3 3/4" long (qty. 5)	AT190-39C	AT190-39C
Bi-Metal Blade, 24TPI, 3 3/4" long (qty. 5)	AT190-40C	AT190-40C
Bi-Metal Blade, 32TPI, 3 3/4" long (qty. 5)	AT190-41C	AT190-41C

² C E



AT185

AT185 Dual Punch Tool.

- Use to make 3/16 and 5/16" punches in light sheet metal
- Head swivels 360° for maximum versatility

Specifications	AT185 ²
Free Speed, rpm	
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	11.3 (81) [320]
Air Inlet Thread Size	1/4"-18 NPT
Recommended Hose Size, inches	3/8
Vibration Level, m/s ²	<2.5
Sound Level dBa Pressure	48.6
Length, inches (mm)	9.3 (235)
Weight, lbs (kg)	2.6 (1.2)

² C E



AT195

AT195 Powered Shears.

- Trims, outlines and shears
- Replaceable brass filter screen
- Built-in speed regulator

Specifications	AT195 ²
Free Speed, rpm	
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	4 (29) [113]
Air Inlet Thread Size	1/4"-18 NPT
Recommended Hose Size, inches	3/8
Vibration Level, m/s ²	<2.5
Sound Level dBa Pressure	99.6
Length, inches (mm)	10 (254)
Weight, lbs (kg)	2.8 (1.3)

² C E

AT180C Nibbler.

- Cuts mild steel sheet up to 16 gauge (0.62") (1.55 mm)
- Anvil is adjustable for forward, backward and left or right cutting
- Readily cuts most nonferrous materials including aluminum, brass, formica, laminates, fiberglass and masonite



AT180C

Specifications	AT180C ²
Free Speed SPM	3,500
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	4 (29) [113]
Air Inlet Thread Size	1/4"-18 NPT
Recommended Hose Size, inches	3/8
Vibration Level, m/s ²	4.3
Sound Level dBa Pressure	97
Length, inches (mm)	7.6 (194)
Weight, lbs (kg)	1.9 (.88)

² C E



PS4512



PS4612



PSF4612

PS4512/PS4612/PSF4612 Orbital Sanders.

- Delivers 12,000 rpm with unsurpassed control and comfort
- Soft, ergonomic adjustable grip is indexable and can be rotated to fit the user's hand
- Patented O-ring sealed motor extends tool life by preventing dust and debris from entering mechanical components
- S-shaped paddle lever to better fit the curve of the user's hand to provide comfort and resist fatigue
- Multiposition regulator controls maximum speed for versatility
- Robust front spindle and precision balanced crank extend motor life and provide smoother operation with minimal vibration
- Patented bearing dust shield extends motor life by preventing contamination of lower motor bearings
- Composite over molded housing is lightweight and easy to maneuver
- Optional PSV4612KIT vacuum kit is also available



PSF4312



PS4609



PS4809

PSF4312 3" Orbital Sander.

- Same features as PS4612 except:
- 3" lightweight, 30 gram pad is flexible for spot sanding and feather edging, providing more control of the application

PS4609 6" and PS4809 8" Geared Sanders.

- Remove and leveling of large amounts of filler materials such as glue or epoxy
- To level small welds
- Removing coatings prior to painting
- For use on metal, solid surfaces, wood and fiberglass
- Super ergonomic adjustable grip is indexable to multiple positions for optimum comfort
- Soft grip housing material for maximum vibration absorption
- PS4609V vacuum model
- PS4809V vacuum model

Orbital and Geared Sanders

Specifications	PS4512 ²	PS4612 ²	PSF4612 ²	PSF4312 ²	PS4609 ²	PS4609V ²	PS4809 ²	PS4809V ²
Pad Size, inches (mm)	5 (127)	6 (152)	6 (152)	3 (76)	6 (152)	6 (152)	8 (203)	8 (203)
Rated Power, hp (kW)	0.25 (.19)	0.25 (.19)	0.25 (.19)	0.25 (.19)	0.42 (.33)	0.42 (.33)	0.42 (.33)	0.42 (.33)
Free Speed RPM	12,000	12,000	12,000	12,000	1,000	1,000	1,000	1,000
Spindle Thread, inches	⁵ / ₁₆ -24	⁵ / ₁₆ -24	⁵ / ₁₆ -24	¹ / ₄ -20	³ / ₈	¹ / ₄	³ / ₈	³ / ₈
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	2 (14) [57]	2 (14) [57]	2 (14) [57]	2 (14) [57]	3 (21.7) [85]	3 (21.7) [85]	3 (21.7) [85]	3 (21.7) [85]
Air Inlet Thread Size	¹ / ₄ "-18 NPT	¹ / ₄ "-18 NPT	¹ / ₄ "-18 NPT	¹ / ₄ "-18 NPT	¹ / ₄ "-18 NPT	¹ / ₄ "-18 NPT	¹ / ₄ "-18 NPT	¹ / ₄ "-18 NPT
Recommended Hose Size, inches	³ / ₈	³ / ₈	³ / ₈	³ / ₈	³ / ₈	³ / ₈	³ / ₈	³ / ₈
Vibration Level, m/s ²	2.3	2.3	2.1	2.1	5.9	5.9	5.9	5.9
Sound Level dBa Pressure	77	81	81	76	82	82	82	82
Length, inches (mm)	5 (127)	6 (152)	6 (152)	3 (76)	11 (281)	11 (281)	11 (281)	11 (281)
Weight, lbs (kg)	1.7 (.77)	2.5 (1.14)	2.4 (1.11)	1.4 (.65)	3.7 (1.70)	3.7 (1.70)	4 (1.82)	4 (1.82)
Standard Pad	PS4512-1AH	PS4612-1AH	PS4612-1AH	PS4312-2H	PS468-34	PS468-34V	PS468-35	PS468-35V

² CE



WARNING



- Do not use grinding discs on sanders
- Read safety precautions on pages W1 to W4

Sanders (Blue-Point®)



AT406B

AT406B 6" Orbital Palm Sander.

- Orbital action assures final swirl free finish
- Sealed outer bearings for long lasting quality
- Built-in speed regulator for precision adjustment
- Nonvacuum Velcro® pad included



AT408

AT408 8" Geared Sander.

- Rear diffused exhaust
- Built-in adjustable speed regulator
- Removable brass filter screens out debris



AT411A

AT411A 6" Dual Action Sander.

- For fine sanding operations and swirl free finishing
- Comfort handle helps reduce fatigue
- Converts from rotary to random orbit action by sliding drive plate
- Built-in thumb wheel speed regulator

Sanders

Specifications	AT406B	AT408 ²	AT411A ²
Pad Size, inches (mm)	6 (152.4)	8 (203)	6 (152)
Rated Power, hp (kW)	.24	0.5 (.37)	0.5 (.37)
Free Speed RPM	10,000	850	10,000
Spindle Thread, inches	5/16-24	5/16-24	5/16-18
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	3.5 (14) [97.86]	5 (36) [142]	5 (36) [142]
Air Inlet Thread Size	1/4"	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8	3/8
Vibration Level, m/s ²	15	3.7	3.7
Sound Level dBa Pressure	89	87	79
Length, inches (mm)	4.5 (115)	11 (281)	8 (203)
Weight, lbs (kg)	1.9 (.86)	4.8 (2.18)	4.7 (2.14)
Standard Pad	AT406B30	AT408-2	AT411A-1
Orbit Dia., inches (mm)	0.19 (5.00)		

² CE



AT425R

AT425R 5" Reversible Hi-speed Sander.

- Comfort grip handle
- 1 hand forward/reverse lever
- Built-in speed regulator
- Includes 3 backing discs: 3, 4 and 5"

Reversible Disc Sanders

Specifications	AT425R ²
Pad Size, inches (mm)	5 (127)
Rated Power, hp (kW)	0.45 (.33)
Free Speed RPM	13,000
Spindle Thread, inches	7/16-20
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	4.3 (31) [122]
Air Inlet Thread Size	1/4"-18 NPT
Recommended Hose Size, inches	3/8
Vibration Level, m/s ²	<0.8
Sound Level dBa Pressure	93
Length, inches (mm)	5.3 (135)
Weight, lbs (kg)	2.8 (1.28)
Standard Pad	AT425R-24
3" Replacement Pad (opt.)	AT425R-22
4" Replacement Pad (opt.)	AT425R-23

² CE



AT109DGK

AT109DGK Die Grinder Kit.

- Aluminum housing
- Compact mini design
- Rear exhaust

Includes: AT109 mini angle die grinder plus 2" (50.8 mm) ROLOC® pad (1 ea.), 2" (50.8 mm) coarse discs (2 ea.), 2" (50.8 mm) medium discs (2 ea.), 2" (50.8 mm) 24 grit discs (2 ea.), 2" (50.8 mm) 36 grit discs (2 ea.), 2" (50.8 mm) crud discs (2 ea.), 3" (76.2 mm) ROLOC pad (1 ea.), 3" (76.2 mm) 50 grit discs (2 ea.), 3" (76.2 mm) 120 grit discs (2 ea.), 3" (76.2 mm) crud discs (2 ea.), 1/4" shank adaptor (1 ea.) and spanner wrenches (2 ea.) in storage case.



PT110ADGK

PT110ADGK Die Grinder Kit.

Includes PT110A Mini Angle Die grinder plus:

- (2) 2" Surface Prep Discs – Medium
- (3) 2" Surface Prep Discs – Coarse
- (2) 3" Surface Prep Discs – Medium
- (3) 3" Surface Prep Discs – Coarse
- (1) 2" Coating Removal Disc
- (1) 3" Coating Removal Disc
- (1) 2" Roloc Holder
- (1) 3" Roloc Holder
- (1) 1/4" Connecting Shank
- (1) 7/4" Connecting Shank
- (2) Service Wrenches
- (1) Blow Mold Tray w/clear cover

Specifications	AT109DGK ²	PT110ADGK ²
Rated Power, hp (kW)	0.2 (.15)	0.3 (.2)
Free Speed RPM	20,000	25,000
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	2.1 (15) [59]	1.4 (10) [40]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8
Vibration Level, m/s ²	2.5	3.8
Sound Level dBA Pressure	104	84
Length, inches (mm)	5.5 (140)	5.6 (144)
Weight, lbs (kg)	1.1 (50)	1.9 (.86)

² CE



AT475A

AT475A Heavy Duty In Line Sander.

- 5/8" stroke
- Minimal vibration
- For fast material removal
- Pad has positive locking clamps

In-Line and Jitterbug Sanders

Specifications	AT475A ²	AT435A ²
Rated Power, hp (kW)		0.5 (.37)
Free Speed - strokes/min.	1,800	8,000
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	2.3 (17) [65]	3 (22) [85]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8
Vibration Level, m/s ²	14.9	4.5
Sound Level dBA Pressure	87	85
Length, inches (mm)	16 (406)	6.7 (171)
Weight, lbs (kg)	6.8 (3.09)	4.6 (2.09)
Standard Pad	AT475A-29	AT435A-48

² CE



AT435A

AT435A Jitterbug Sander.

- Features top mounted throttle
- For fast material removal
- Built-in speed regulator
- Pad has positive locking clamps



WARNING



- Do not use sanding discs or accessories above maximum rated RPM
- Do not use grinding discs on sanders
- Read safety precautions on pages W1 to W4

Belt Sanders (Blue-Point®)



AT615



AT615K

Belt Sander

Specifications	AT615 ²
Rated Power, hp (kW)	0.5 (.3)
Free Speed rpm	20,000
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	4.2 (30) [119]
Air Inlet Thread Size	1/4"-18 NPT
Recommended Hose Size, inches	3/8
Vibration Level, m/s ²	1.36
Sound Level dBa Pressure	95
Length, inches (mm)	14.13 (359)
Weight, lbs (kg)	2.64 (1.20)

² CE

AT615 Belt Sander.

- rinding head pivots 360° for increased flexibility
- Simple belt tracking adjustment knob to adjust belt slack
- Powerful 0.5 hp for long lasting performance
- Belt guard detaches for quick abrasive changes
- Ergonomic 7° off set handle and lightweight design minimizes operator fatigue

AT615K Belt Sander Kit.

- Includes AT615, 3 18" x 3/8" sanding belts (60, 80, 120 grit), 3 18" x 1/2" sanding belts (60, 80, 120 grit) and 3 18" x 3/4" sanding belts (60, 80, 120 grit)

• CE

AT615ARM1 Contact Arm Assembly (1"D X 3/8"W rubber).

- Use with AT615 Belt Sander
- #### AT615ARM2 Contact Arm Assembly (3/4"D x 3/8"W rubber).

- Use with AT615 Belt Sander
- #### AT615ARM3 Contact Arm Assembly (3/4"D x 5/8"W).

- Use with AT615 Belt Sander
- #### AT615-31 Collet Assembly (1/4").
- Optional 1/4" collet assembly for use with the AT615 Belt Sander

AT615KPB Storage Case.

- Storage case for the AT615K Belt Sander Kit



Belts

Stock No.	Description	Size	Grit	Package Quantity	Stock No.	Description	Size	Grit	Package Quantity
ATBA381860	Coated Abrasive	3/8" x 18"	60 Grit	5 pack	ATBB121850	Nonwoven Abrasive	1/2" x 18"	50 Grit	5 pack
ATBA381880	Coated Abrasive	3/8" x 18"	80 Grit	5 pack	ATBB1218100	Nonwoven Abrasive	1/2" x 18"	100 Grit	5 pack
ATBA3818120	Coated Abrasive	3/8" x 18"	120 Grit	5 pack	ATBB1218240	Nonwoven Abrasive	1/2" x 18"	240 Grit	5 pack
ATBA121860	Coated Abrasive	1/2" x 18"	60 Grit	5 pack	ATBB341850	Nonwoven Abrasive	3/4" x 18"	50 Grit	5 pack
ATBA121880	Coated Abrasive	1/2" x 18"	80 Grit	5 pack	ATBB3418100	Nonwoven Abrasive	3/4" x 18"	100 Grit	5 pack
ATBA1218120	Coated Abrasive	1/2" x 18"	120 Grit	5 pack	ATBB3418240	Nonwoven Abrasive	3/4" x 18"	240 Grit	5 pack
ATBA341860	Coated Abrasive	3/4" x 18"	60 Grit	5 pack	ATBB381850	Nonwoven Abrasive	3/8" x 18"	50 Grit	5 pack
ATBA341880	Coated Abrasive	3/4" x 18"	80 Grit	5 pack	ATBB3818100	Nonwoven Abrasive	3/8" x 18"	100 Grit	5 pack
ATBA3418120	Coated Abrasive	3/4" x 18"	120 Grit	5 pack	ATBB3818240	Nonwoven Abrasive	3/8" x 18"	240 Grit	5 pack



AT240

Tire Buffer

AT240 Tire Buffer.

- Use for tire patch preparation, roughing up rubber for tire recaps plus removing excess rubber
- Speed regulator for improved tool control
- Comfort grip housing for reduced operator fatigue
- Rear exhaust directs air away from work
- Semicircle buffing wheel for maximum surface preparation



AT265A

Pin Stripe Removal Tool

AT265A Pinstripe Removal Tool.

- Use to remove pinstripes, adhesive, tape, and graffiti
- Includes (3) 3.5" eraser pads to keep you working longer
- Step pad eraser design for improved visibility during operation
- Comfort grip handle for less fatigue
- Auxiliary side handle for improved tool control



AT1212

Needle Scaler

AT1212 Mini Needle Scaler.

- Mini size for access in confined areas
- Smooth palm controlled trigger mechanism for ease of operation
- 12 high tension steel needles conform to any irregular surface for cleaning crevices

Stock No.	Pad Size	Style	Rated Power	Free Speed RPM	Spindle Size	Air Consumption	Vibration Level, m/s ²	Sound Level dBa Pressure	Length, inches (mm)	Weight, lbs (kg)
AT240 ²		Tire Buffer	.04	2,600		3.7	1.18	89	9.1 (233)	1.8 (0.80)
AT265A ²	3.5	Material Removal	.04	3,600	5/16" - 24	3.7	0.69	88	8.1 (207)	1.8 (0.80)
AT1212 ²		Scaler		4,000 BPM		4.5	11.5	88	12.4 (316)	2.64 (1.2)

² CE

Finishing Tools (Blue-Point®)



AT401MCA



AT402MCA



AT403MCA

AT401MCA, AT402MCA and AT403MCA Micro Series Features.

- Powerful direct drive gear train for greater durability
- Large 2 finger trigger for better control
- High quality bearings for longer tool life
- Composite housing with comfort grip insulates from cold
- Bottom handle diffused exhaust
- Variable speed trigger

Specifications	AT401MCA ²	AT402MCA ²	AT403MCA ²
Pad Size, inches (mm)	3 (76)	3 (76)	3 (76)
Rated Power, hp (kW)	0.25 (.19)	0.25 (.19)	0.25 (.19)
Free Speed RPM	15,000	15,000	6,000
Spindle Thread, inches	1/4-20	5/16-24	5/16-24
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	2.1 (15) [59]	2.1 (15) [59]	2.2 (16) [62]
Air Inlet Thread Size	1/4"-18 NPT	1/4"-18 NPT	1/4"-18 NPT
Recommended Hose Size, inches	3/8	3/8	3/8
Vibration Level, m/s²	<2.5	<2.5	<2.5
Sound Level dBa Pressure	84	84	86
Length, inches (mm)	4.7 (119)	5.2 (133)	5.6 (143)
Weight, lbs (kg)	.97 (.44)	1.1 (.50)	1.3 (.60)

² CE



AT401MCKA



AT402MCKA



AT403MCKA

AT401MCKA Micro Surface Prep Tool Kit.

- Includes: AT401MCA micro surface prep tool, (1) 2" ROLOC® pad, (1) 3" ROLOC pad, (5) 2" 40 grit pads and (5) 3" 80 grit pads in storage case
- CE

AT402MCKA Micro Dual Action Sander Kit.

- Includes: AT402MC micro sander, (1) 3" Hook-It® pad, (25) 3" 180 grit pads, (25) 3" 200 grit pads, (10) 3" 320 grit pads and (10) 3" 800 grit pads in storage case
- CE

AT403MCKA Micro Polisher Kit.

- Includes: AT403MCA micro polisher, (1) 3" Hook-It pad, (1) 3" wool pad, and (1) 3" foam pad in storage case
- CE

Polishers

Specifications	AT450BP ²
Pad Size, inches (mm)	7 (177)
Rated Power, hp (kW)	1 (.74)
Free Speed rpm	2,700
Spindle Thread, inches	5/8-11
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	4.8 (34) [136]
Air Inlet Thread Size	1/4"-18 NPT
Recommended Hose Size, inches	3/8
Vibration Level, m/s²	<2.5
Sound Level dBa Pressure	84
Length, inches (mm)	15.7 (400)
Weight, lbs (kg)	5.5 (2.50)
Standard Wool Pad	POLISHW8A
Spanner Wrench (opt.)	AT450-50H

² CE



AT450BP

AT450BP Heavy Duty Vertical Polisher.

- Removeable side handle
- Includes wool pad



WARNING



- Do not use sanding discs or accessories above maximum rated rpm
- Read safety precautions on pages W1 to W4

Finishing Tools



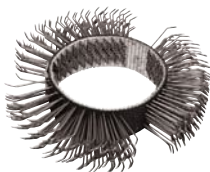
PT280THUGA

PT280THUGA Crud Thug® Removal Air Tool.

- Quickly remove seam sealers, rust, paint and underbody coatings
- Optional rubber eraser wheel for pinstripe and graphics removal
- Easily removes automotive crud without fumes, heat buildup or surface damage
- Includes (1) fine wire wheel and (1) coarse wire wheel
- Thermally balanced air motor routes air between housing and liner for cooler tool temperatures and longer life
- Planetary gear system for increased torque
- Ergonomic cushion grip insulates against cold and vibration
- Adjustable exhaust outlet in rear of tool allows choice of exhaust direction
- 10 position power/speed regulator allows easy rpm adjustment
- Paddle style trigger for precise speed control

Specifications	PT280THUGA ²
Rated Power, hp (kW)	0.45 (.33)
Free Speed rpm	3,500
Air Consumption, Free Speed, CFM (SCFM) [L/MIN]	4 (28) [113]
Air Inlet Thread Size	1/4"-18 NPT
Recommended Hose Size, inches	3/8
Vibration Level, m/s ²	2.8
Sound Level dBa Pressure	85
Length, inches (mm)	12 (304)
Weight, lbs (kg)	2.4 (1.09)

² CE



PT280-301MP5



PT280-302MP5



PT280-303MP3



PT280-304



PT280-305



PT280-306



PT280-300-11



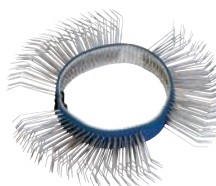
PT280-301-11



PT280-302-11



PT280-304-11



PT280-305-11



PT280-306-11

Stock No.	Description	Width, mm	Wheel Diameter, inches	Wire Style	Max. Safe Free Speed RPM	Applications
SPPT280-300	Hub	23	4.05		4,000	Use to mount wire wheel to tool.
PT280-301MP5	Wire Wheel (coarse)	23	4.05	Bent, sharpened spring steel tips	4,000	Removes sealers and coatings. Profiles steel surfaces, rough fiberglass, plastic and rubber.
PT280-302MP5	Wire Wheel (fine)	23	4.05	Straight, hardened spring steel tips	4,000	Removes light rust, paint and gasket material. Cleans contours and tight areas.
PT280-303MP3	Rubber Eraser Wheel	30	4.13		3,500	Removes vinyl, decals and pinstripes, along with reflective and DOT tape. Also removes molding and adhesive tape.
PT280-304	Stainless Steel Wire Wheel (fine)	23	4.05	Straight tip stainless steel	4,000	Removes paint, oxidation and liquid gaskets. Cleans weld seams and rivets.
PT280-305	Stainless Steel Wire Wheel (coarse)	23	4.05	Bent tip stainless steel	4,000	Removes paint, corrosion, cleans weld seams, burn and slag. Effective for nonferrous metals.
PT280-306	Wire Wheel (medium)	23	4.05	Bent, sharpened spring steel tips	4,000	Removes heavy rust, paint, epoxy and marine growth. Profiles aluminum surfaces.
PT280-300-11	Hub	11	4.05		4,000	Use to mount wire wheel to tool.
PT280-301-11	Wire Wheel (coarse)	11	4.05	Bent, sharpened spring steel tips	4,000	Removes sealers and coatings. Profiles steel surfaces, rough fiberglass, plastic and rubber.
PT280-302-11	Wire Wheel (fine)	11	4.05	Straight, hardened spring steel tips	4,000	Removes light rust, paint and gasket material. Cleans contours and tight areas.
PT280-304-11	Stainless Steel Wire Wheel (fine)	11	4.05	Straight, hardened stainless steel tips	4,000	Removes paint, oxidation and liquid gaskets. Cleans weld seams and rivets.
PT280-305-11	Stainless Steel Wire Wheel (coarse)	11	4.05	Bent, sharpened stainless steel tips	4,000	Removes paint, corrosion, cleans weld seams, burn and slag. Effective for nonferrous metals.
PT280-306-11	Wire Wheel (medium)	11	4.05	Bent, sharpened spring steel tips	4,000	Remove heavy rust, paint, epoxy and marine growth. Profiles aluminum surfaces.

A More Productive Work Solution.

When you pair Snap-on® tools with *Snap-on* and Blue-Point® accessories you get a system with complementary technologies that gives you more power, control, durability and productivity.

Working Together.

Snap-on offers a full range of accessories to help you get the most out of your power tool.

Hardened drill bits — Allow you to get the most out of your drill and resist breakage.

Premium grade oil — Keeps your power tools well lubricated for longer life.

Air hoses — Extremely lightweight for maneuverability.

Protective boots — Wide range of power tool boots to protect your investment.



POWER TOOL ACCESSORIES

Air/Cordless Tool Boots



YA848



YA888



PH3050BOOT



CT6850MBOOT

Air/Cordless Boots

		Air Tool Stock No.	Stock No.
Air Impact Wrench Boots	3/4" Sq. Drive	AT670	AT670B00T
		AT760	AT760B00T
		AT775 / AT775L	YA979
		IM75	YA770
		MG1200	MG1200B00T
	1/2" Sq. Drive	AT123 Series	AT123-45
		AT500C / AT500D	YA972
		AT555 / AT555A Series	AT531-25
		AT570	AT570B00T
		IM51 / IM510 Series	YA848
		IM5100	YA978
		IM6100 Series / IM6500HP	YA980
		IMC500	IMC500B00T
		XT7100	XT7100B00T
		MG725 Series	MG725B00T MG725GB00T MG725OB00T MG725MFB00T MG725MFP00T MG725MFR00T
	3/8" Sq. Drive	AT321	AT321-44
		AT351	
		AT355A	YA977
		AT360	AT360-25
		AT370	AT370B00T
IM31 Series		YA877A	
IM32 Series		YA1032	
MG31 Series		MG31B00T	
MG325 Series		MG325B00T MG325GB00T MG325OB00T MG325MFB00T MG325MFP00T MG325MFR00T	
1/4" Sq. Drive		AT225B Series	YA975
3/8" Capacity		AT3000	AT3000B00T



CT4410AGBOOT



YA969

		Air Tool Stock No.	Stock No.		
Air Ratchet Boots	1/2" Sq. Drive	AT705 Series	AT700E49A		
		AT205 Series	AT200D22A		
		AT700 Series / AT702	AT700E49A		
		ETB14460A	YA889A		
		FAR7000	FAR7000B00T		
	3/8" Sq. Drive	FAR7200, FAR72B, FAR72C	YA889A		
		PTR205A	YA905		
		PTR215A	YA905		
		PTR225A	YA905		
		AT200 Series	AT200D22A		
		FAR25, FAR25A	YA888		
	1/4" Sq. Drive	PTR200A, FAR2500, FAR2505	YA905		
		AT2050	AT2050B00T		
		PH3050/PH3050A	PH3050B00T		
	Air Hammer Boots	1/2" Sq. Drive	CT3450, CT3850 Series	YA982	
CT4850, CT6850, CT6855 Series			CT4850B00T		
CT4410A Series			CT4410AGB00T		
			CT4410AOB00T		
			CT6850GB00T		
			CT6850MB00T		
			CT6850MPB00T		
			CT6850MRB00T		
CT7850 Series			CT7850B00T		
CT30 Series			YA968		
CT310 Series			YA982		
CT3110, CT3110HP Series			YA969		
Battery Boots			18 V	CTB4185/CTB4187 Series	CTB4185B00T
				CTB7185	CTB7185B00T
				CTB4145/CTB4147 Series	CTB4145B00T
	14.4 V				

Impact Wrench and Ratchet Accessories



MRB25

MRB25 Magnetic Impact Wrench Holder.

- Attach to lift post, tool storage unit or cart to keep impact gun handy
- Ideal for tire and wheel shops
- 160 lbs of magnetic force
- Outer diameter of base is 3 7/8"
- Inner diameter of holder is 2 7/8"



YA4190A

YA4190A Grease Gun.

- Fits all flush type fittings
- Good for FAR72B/FAR70 series air ratchets
- Spring return plunger
- 3 oz capacity

YA4190DIS Grease Dispenser.

- Grease dispenser attachment for YA4190A
- Contains 3 oz of Mobil® temp SHC-32 grease for Snap-on® FAR series air ratchets

YA4190FAR Grease Gun Assembly. YA4190CAPA Grease Gun Head.



YA4190DIS



YA4190FAR



YA4190CAPA

Drill Accessories



DC150

DC150 Chuck Set.

- Includes 1/4 and 3/8" drill chucks, a chuck key and a set of 5 stubby drill bits in 1/8, 3/16, 1/4, 5/16 and 3/8" sizes

- Packaged in a storage case

DC15014 Drill Chuck.

- 1/4" drill chuck

DC15038 Drill Chuck.

- 3/8" drill chuck

DCA375 Drill Chuck.

- 3/8" chuck fits AT3000 drill

- Thread size 3/8"-24;

- Capacity 1/32 to 3/8"

- Includes PD3A3 chuck key



DC15014



DCA500



DCB500



AT3000-26



PDAH1A



DCBP500

DCA500 Drill Chuck.

- 1/2" chuck fits AT5000 drill

- Thread size 1/2"-20;

- Capacity 1/16 to 1/2"

- Includes PD30-3 chuck key

DCB375 Drill Chuck.

- 3/8" chuck

- general use on light duty drills

- Thread size 3/8"-24; Capacity 1/32 to 3/8"

- Includes AT825-7 chuck key

DCB500 Drill Chuck.

- 1/2" chuck fits AT3000 drill

- Thread size 3/8"-24;

- Capacity 1/16 to 1/2"

- Includes PD30-3 chuck key

AT3000-26 Keyless Chuck.

- 3/8" keyless chuck for AT3000 drill

PD3A3 Chuck Key.

- 3/8" replacement key for PDR3A and AT800 drills

PDAH1A Auxiliary Handle.

- Provides 2 handed power and control when used in conjunction with air drills

AT5000-6-1 Chuck Key.

- 1/2", for AT5000

AT5000-6 Drill Chuck.

- 1/2" keyed chuck fits AT5000

- Thread size 1/2"-20; Capacity 1/16"-1/2"

- Key not included

DCBP500 Drill Chuck.

- 1/2" keyless chuck fits AT500

- Thread size 1/2"-20; Capacity 1/16"-1/2"

YA52PBSQC Power Bit Set.

- Ideal for use with cordless drills and screwdrivers

- Includes 49 1/4" hex shank bits in short and long lengths, 2 hex adaptors and quick change chuck

- Storage case holds all components



YA52PBSQC

Set Includes:

Flat Tip Bits (Short)	5-6, 6-8, 8-10 (2 each), 10-12
Flat Tip Bits (Long)	6-8, 8-10, 10-12
Hex Bits (Short)	1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 9/32"
Hex Bits (Long)	5/32, 3/16, 7/32"
PHILLIPS Bits (Short)	#1, #2 (2 each), #3
PHILLIPS Bits (Long)	#1, #2, #3
TORX® Tamper Resistant Bits (Short and Long)	T10, T15, T20, T25, T27, T30, T40
Square Bits (Short and Long)	#1, #2, #3
Clutch Bits (Short and Long)	5/32, 3/16"
Double End Bits	6-8 x #2 PHILLIPS, 8-10 x #3 PHILLIPS
Adaptors	1/4" hex female to 1/4" hex female, 1/4" hex male to 1/4" square male, 1/4" hex Quick Change Chuck

PTB32K Power Bit Set.

- Ideal for use with cordless drills and screwdrivers, includes (30) 1/4" hex shank bits plus 2 adaptors

- Storage case clearly indicates bit type and size

Set Includes:

Flat Tip Bits	5/32, 3/16, 7/32, 1/4, 9/32"
Hex Bits	3/32, 7/64, 1/8, 5/32, 3/16, 7/32, 1/4"
PHILLIPS Bits	#0, #1, #2, #3
POZIDRIV Bits	#0, #1, #2, #3
TORX Tamper Resistant Bits	T10, T15, T20, T25, T27, T30, T40
Square Bits	#0, #1, #2
Adaptors	1/4" hex male to 1/4" square male, 1/4" hex Quick Change Coupler



PTB32K

Magnetic Power Nut Drivers

- Magnets keep ferrous metal fasteners positioned in driver

- High grade alloy material for long lasting durability

- Storage case to keep tools organized under hood and bench work

Applications: Under dash

PTND4KA Magnetic Power Nut Setter Set, inch (4 pc).

Includes: 1/4, 5/16, 3/8 and 1/2" Nut Setters.

PTNDM4KA Magnetic Power Nut Setter Set, Metric (4 pc).

Includes: 8, 10, 12 and 14 mm nut setters.



PTNDM4KA

CTS561BITSET

Quick Change Bit Set.

- For Snap-on® CTS561 and CTS561CL cordless screwdrivers plus other power drivers

- Quick change hex saves time changing bits

- Includes 22 bits (all 3" long) plus a 1/4" square drive (2" long)

- Storage case included

Set Includes:

PHILLIPS Bits	#0, #1, #2
Flat Tip Bits	5/32, 3/16, 7/16, 1/4, 9/32"
TORX Bits	T10, T15, T20, T25, T27, T30, T40
Hex Bits	3/32, 7/64, 1/8, 5/32, 3/16, 7/32, 1/4"



CTS561BITSET



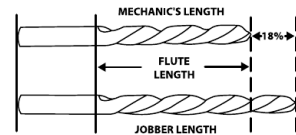
WARNING



• Read safety precautions on pages W1 to W2

POWER TOOL ACCESSORIES

Drill Bits



DBTBC121

DBTBC121 THUNDERBIT Cobalt Drill Bit Set.
DBTBC1/16 through DBTBC3/8 (21 bits) in B121B metal drill index.



DBTBC129

DBTBC129 THUNDERBIT Cobalt Drill Bit Set.
DBTBC1/16 through DBTBC1/2 (29 bits) in B129B metal drill index.



DBTB121

DBTB121 THUNDERBIT High Speed Drill Bit Set.
DBTB1/16 through DBTB3/8 (21 bits) in B121B metal drill index.



DBTB129

DBTB129 Drill Bit Set.
DBTB1/16 through DBTB1/2 (29 bits) in B129B metal drill index.

High Speed Steel Drill Bits



DBTR129

DBTR129 Drill Bit Set.
DBTR1/16 through DBTR1/2 (29 bits) in B129B metal drill index.

THUNDERBIT®/Cobalt

Jobber Length 135° Split Point

- For drilling at higher speeds in tougher drilling conditions
- Feature 135° split points for easier drill starting without the need for center punching
- Heavy duty web construction for higher strength and less breakage
- Improved chip ejection through a specially engineered flute design

Stock No.	Size, inches	Stock No.	Size, inches
DBTBC1/16	1/16	DBTBC19/64	19/64
DBTBC5/64	5/64	DBTBC5/16	5/16
DBTBC3/32	3/32	DBTBC21/64	21/64
DBTBC7/64	7/64	DBTBC11/32	11/32
DBTBC1/8	1/8	DBTBC23/64	23/64
DBTBC9/64	9/64	DBTBC3/8	3/8
DBTBC5/32	5/32	DBTBC25/64	25/64
DBTBC11/64	11/64	DBTBC13/32	13/32
DBTBC3/16	3/16	DBTBC27/64	27/64
DBTBC13/64	13/64	DBTBC7/16	7/16
DBTBC7/32	7/32	DBTBC29/64	29/64
DBTBC15/64	15/64	DBTBC15/32	15/32
DBTBC1/4	1/4	DBTBC31/64	31/64
DBTBC17/64	17/64	DBTBC1/2	1/2
DBTBC9/32	9/32		

THUNDERBIT/High Speed Steel

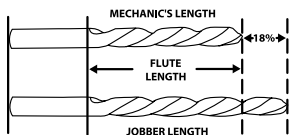
Jobber Length 135° Split Point

- Industrial grade steel with bronze oxide surface treatment
- Bits will drill at higher speeds in tougher drilling conditions
- 135° split points for easier drill starting without the need for center punching
- Heavy duty web construction for higher strength and less breakage
- Improved chip ejection through a specially engineered flute design

Stock No.	Size, inches	Stock No.	Size, inches
DBTB1/16	1/16	DBTB19/64	19/64
DBTB5/64	5/64	DBTB5/16	5/16
DBTB3/32	3/32	DBTB21/64	21/64
DBTB7/64	7/64	DBTB11/32	11/32
DBTB1/8	1/8	DBTB23/64	23/64
DBTB9/64	9/64	DBTB3/8	3/8
DBTB5/32	5/32	DBTB25/64	25/64
DBTB11/64	11/64	DBTB13/32	13/32
DBTB3/16	3/16	DBTB27/64	27/64
DBTB13/64	13/64	DBTB7/16	7/16
DBTB7/32	7/32	DBTB29/64	29/64
DBTB15/64	15/64	DBTB15/32	15/32
DBTB1/4	1/4	DBTB31/64	31/64
DBTB17/64	17/64	DBTB1/2	1/2
DBTB9/32	9/32		

Mechanic's Length 135° Point with 3 Flat Shank

Stock No.	Size, inches	Stock No.	Size, inches	Stock No.	Size, inches
DBTR1/16	1/16	DBTR7/32	7/32	DBTR3/8	3/8
DBTR5/64	5/64	DBTR15/64	15/64	DBTR25/64	25/64
DBTR3/32	3/32	DBTR1/4	1/4	DBTR13/32	13/32
DBTR7/64	7/64	DBTR17/64	17/64	DBTR27/64	27/64
DBTR1/8	1/8	DBTR9/32	9/32	DBTR7/16	7/16
DBTR9/64	9/64	DBTR19/64	19/64	DBTR29/64	29/64
DBTR5/32	5/32	DBTR5/16	5/16	DBTR15/32	15/32
DBTR11/64	11/64	DBTR21/64	21/64	DBTR31/64	31/64
DBTR3/16	3/16	DBTR11/32	11/32	DBTR1/2	1/2
DBTR13/64	13/64	DBTR23/64	23/64		



Jobber Length 118° Point

Stock No.	Size, inches	Stock No.	Size, inches
DBF1/16C	1/16	DBF19/64C	19/64
DBF5/64C	5/64	DBF5/16C	5/16
DBF3/32C	3/32	DBF21/64C	21/64
DBF7/64C	7/64	DBF11/32C	11/32
DBF1/8C	1/8	DBF23/64C	23/64
DBF9/64C	9/64	DBF3/8C	3/8
DBF5/32C	5/32	DBF25/64C	25/64
DBF11/64C	11/64	DBF13/32C	13/32
DBF3/16C	3/16	DBF27/64C	27/64
DBF13/64C	13/64	DBF7/16C	7/16
DBF7/32C	7/32	DBF29/64C	29/64
DBF15/64C	15/64	DBF15/32C	15/32
DBF1/4C	1/4	DBF31/64C	31/64
DBF1764C	17/64	DBF1/2C	1/2
DBF9/32C	9/32		



DB129C

DB129C Drill Bit Set.
DBF1/16C through DBF1/2C
(29 bits) in B129C metal
drill index.



DB121C

DB121C Drill Bit Set.
DBF1/16C through DBF3/8C
(21 bits) in B121C metal
drill index.



DB113C

DB113C Drill Bit Set.
DBF1/16C through DBF1/4C
(13 bits) in B113B metal
drill index.

Jobber Length Letter Size 118° Point

Stock No.	Size, inches	Stock No.	Size, inches
DBAA1A	.234 (A)	DBAA1N	.302 (N)
DBAA1B	.238 (B)	DBAA1O	.316 (O)
DBAA1C	.242 (C)	DBAA1P	.323 (P)
DBAA1D	.246 (D)	DBAA1Q	.332 (Q)
DBAA1E	.250 (E)	DBAA1R	.339 (R)
DBAA1F	.257 (F)	DBAA1S	.348 (S)
DBAA1G	.261 (G)	DBAA1T	.358 (T)
DBAA1H	.266 (H)	DBAA1U	.368 (U)
DBAA1I	.272 (I)	DBAA1V	.377 (V)
DBAA1J	.277 (J)	DBAA1W	.386 (W)
DBAA1K	.281 (K)	DBAA1X	.397 (X)
DBAA1L	.290 (L)	DBAA1Y	.404 (Y)
DBAA1M	.295 (M)	DBAA1Z	.413 (Z)

DBA126B Letter Drill Bit Set. DBAA1A through DBAA1Z
(26 pcs) (.234 to .413") in B126C metal index.



DBA126B

Jobber Length Metric Size 118° Point

Stock No.	Size, mm	Stock No.	Size, mm
DBM1A	1	DBM7.5A	7.5
DBM1.5A	1.5	DBM8A	8
DBM2A	2	DBM8.5A	8.5
DBM2.5A	2.5	DBM9A	9
DBM3A	3	DBM9.5A	9.5
DBM3.5A	3.5	DBM10A	10
DBM4A	4	DBM10.5A	10.5
DBM4.5A	4.5	DBM11A	11
DBM5A	5	DBM11.5A	11.5
DBM5.5A	5.5	DBM12A	12
DBM6A	6	DBM12.5A	12.5
DBM6.5A	6.5	DBM13A	13
DBM7A	7		

DBM125C Metric Drill Bit Set. DBM1A through DBM13A
(25 pcs) (1 to 13 mm) in B125C metal index.



DBM125C



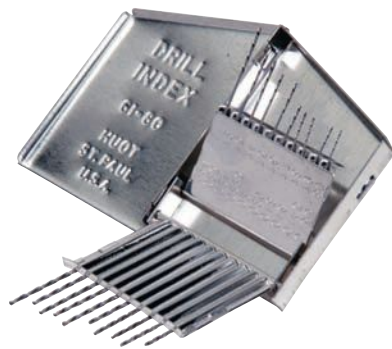
WARNING



• Read safety precautions on pages W1 to W4

POWER TOOL ACCESSORIES

Wire Gauge Drill Bits



DB120C



DBC260A

Wire Gauge 118° Point (Cobalt and High Speed Steel)

Cobalt	High Speed Steel	Decimal Equiv. inches	Length, inches	Cobalt	High Speed Steel	Decimal Equiv. inches	Length, inches
DBCE1A	DBE1B	.2280	3 7/8	DBCE41A	DBE41B	.0960	2 3/8
DBCE2A	DBE2B	.2210	3 7/8	DBCE42A	DBE42B	.0935	2 1/4
DBCE3A	DBE3B	.2130	3 3/4	DBCE43A	DBE43B	.0890	2 1/4
DBCE4A	DBE4B	.2090	3 3/4	DBCE44A	DBE44B	.0860	2 1/8
DBCE5A	DBE5B	.2055	3 3/4	DBCE45A	DBE45B	.0820	2 1/8
DBCE6A	DBE6B	.2040	3 3/4	DBCE46A	DBE46B	.0810	2 1/8
DBCE7A	DBE7B	.2010	3 5/8	DBCE47A	DBE47B	.0785	2
DBCE8A	DBE8A	.1990	3 5/8	DBCE48A	DBE48B	.0760	2
DBCE9A	DBE9B	.1960	3 5/8	DBCE49A	DBE49B	.0730	2
DBCE10A	DBE10B	.1935	3 5/8	DBCE50A	DBE50B	.0700	2
DBCE11A	DBE11B	.1910	3 1/2	DBCE51A	DBE51B	.0670	2
DBCE12A	DBE12B	.1890	3 1/2	DBCE52A	DBE52B	.0635	1 7/8
DBCE13A	DBE13B	.1850	3 1/2	DBCE53A	DBE53B	.0595	1 7/8
DBCE14A	DBE14B	.1820	3 3/8	DBCE54A	DBE54B	.0550	1 7/8
DBCE15A	DBE15B	.1800	3 3/8	DBCE55A	DBE55B	.0520	1 7/8
DBCE16A	DBE16B	.1770	3 3/8	DBCE56A	DBE56B	.0465	1 3/4
DBCE17A	DBE17B	.1730	3 3/8	DBCE57A	DBE57B	.0430	1 3/4
DBCE18A	DBE18B	.1695	3 1/4	DBCE58A	DBE58B	.0420	1 5/8
DBCE19A	DBE19B	.1660	3 1/4	DBCE59A	DBE59B	.0410	1 5/8
DBCE20A	DBE20B	.1610	3 1/4	DBCE60A	DBE60B	.0400	1 5/8
DBCE21A	DBE21B	.1590	3 1/4	DBE61B		.0390	1 5/8
DBCE22A	DBE22B	.1570	3 1/8	DBE62B		.0380	1 1/2
DBCE23A	DBE23B	.1540	3 1/8	DBE63B		.0370	1 1/2
DBCE24A	DBE24B	.1520	3 1/8	DBE64B		.0360	1 1/2
DBCE25A	DBE25B	.1495	3	DBE65B		.0350	1 1/2
DBCE26A	DBE26B	.1470	3	DBE66B		.0330	1 3/8
DBCE27A	DBE27B	.1440	3	DBE67B		.0320	1 3/8
DBCE28A	DBE28B	.1405	2 7/8	DBE68B		.0310	1 3/8
DBCE29A	DBE29B	.1360	2 7/8	DBE69B		.0292	1 3/8
DBCE30A	DBE30B	.1285	2 3/4	DBE70B		.0280	1 1/4
DBCE31A	DBE31B	.1200	2 3/4	DBE71B		.0260	1 1/4
DBCE32A	DBE32B	.1160	2 3/4	DBE72B		.0250	1 1/8
DBCE33A	DBE33B	.1130	2 5/8	DBE73B		.0240	1 1/8
DBCE34A	DBE34B	.1110	2 5/8	DBE74B		.0225	1
DBCE35A	DBE35B	.1100	2 5/8	DBE75B		.0210	1
DBCE36A	DBE36B	.1065	2 1/2	DBE76B		.0200	7/8
DBCE37A	DBE37B	.1040	2 1/2	DBE77B		.0180	7/8
DBCE38A	DBE38B	.1015	2 1/2	DBE78B		.0160	7/8
DBCE39A	DBE39B	.0995	2 3/8	DBE79B		.0145	3/4
DBCE40A	DBE40B	.0980	2 3/8	DBE80B		.0135	3/4

DB120C High Speed Drill Bit Set. DBE61B through DBE80B (20 pcs) (.0390 to .0135") in a metal index.

DBC260A Cobalt Drill Bit Set. DBCE1A through DBCE60A (60 pcs) (.2280 to .0400") in a B160C metal index.

DB160C High Speed Drill Bit Set. DBE1B through DBE60B (60 pcs) (.2280 to .0400") in a B160C metal index.

Drill Bits (Blue-Point®)



DBBPC21

Jobber Length 135° Split Point (Cobalt)

Stock No.	Size, Inches	Stock No.	Size, Inches
DBBPC1/16	1/16	DBBPC15/64	15/64
DBBPC5/64	5/64	DBBPC1/4	1/4
DBBPC3/32	3/32	DBBPC17/64	17/64
DBBPC7/64	7/64	DBBPC9/32	9/32
DBBPC1/8	1/8	DBBPC19/64	19/64
DBBPC9/64	9/64	DBBPC5/16	5/16
DBBPC5/32	5/32	DBBPC21/64	21/64
DBBPC11/64	11/64	DBBPC11/32	11/32
DBBPC3/16	3/16	DBBPC23/64	23/64
DBBPC13/64	13/64	DBBPC3/8	3/8
DBBPC7/32	7/32		

DBBPC21 Cobalt Drill Bit Set. DBBPC1/16 through DBBPC3/8 (21 pcs) (1/16 to 3/8") in metal drill bit index.

135° Split Point (High Speed Steel) (Titanium Coated)

Stock No.	Size, Inches
DBBP1/16	1/16
DBBP5/64	5/64
DBBP3/32	3/32
DBBP7/64	7/64
DBBP1/8	1/8
DBBP9/64	9/64
DBBP5/32	5/32
DBBP11/64	11/64
DBBP3/16	3/16
DBBP13/64	13/64
DBBP7/32	7/32
DBBP15/64	15/64
DBBP1/4	1/4

DBBP13 Titanium Coated Steel Drill Bit Set. DBBP1/16 through DBBP1/4 (13 pcs) (1/16 to 1/4") in metal drill bit index.

Jobber Length 135° Split Point (High Speed Steel)

Stock No.	Size, Inches	Stock No.	Size, Inches
DBBP1/16	1/16	DBBP15/64	15/64
DBBP5/64	5/64	DBBP1/4	1/4
DBBP3/32	3/32	DBBP17/64	17/64
DBBP7/64	7/64	DBBP9/32	9/32
DBBP1/8	1/8	DBBP19/64	19/64
DBBP9/64	9/64	DBBP5/16	5/16
DBBP5/32	5/32	DBBP21/64	21/64
DBBP11/64	11/64	DBBP11/32	11/32
DBBP3/16	3/16	DBBP23/64	23/64
DBBP13/64	13/64	DBBP3/8	3/8
DBBP7/32	7/32		

DBBP21 HSS Drill Bit Set. DBBP1/16 through DBBP3/8 (21 pcs) (1/16 to 3/8") in metal drill bit index.



DBBP13



DBBP21

Specialized Drill Bits



DBCL105A



DBLS105A

Left Hand Fractional Drill Bits (Cobalt)

Stock No.	Size, inches
DBCL5/64A	5/64
DBCL7/64A	7/64
DBCL5/32A	5/32
DBCL3/16	3/16
DBCL1/4A	1/4
DBCL9/32	9/32
DBCL19/64A	19/64
DBCL5/16	5/16
DBCL11/32	11/32
DBCL3/8	3/8
DBCL13/32	13/32
DBCL7/16	7/16
DBCL15/32	15/32
DBCL1/2	1/2

DBCL105A Left Hand Drill Bit Set. DBCL5/64, DBCL7/64, DBCL5/32, DBCL1/4 and DBCL19/64 drill bits (5 pcs) in a plastic pouch.

Left Hand Fractional Drill Bits (High Speed Steel)

- Use left hand drill bits to make a hole in the broken screw before the extractor is inserted
- Left hand drill bits tend to loosen screws for easier removal

Stock No.	Size, inches	Flute Length, inches	Overall Length, inches
DBLS1/8A	1/8	1 3/8	3
DBLS3/16A	3/16	2	3 1/2
DBLS1/4A	1/4	2 1/2	4
DBLS5/16A	5/16	2 5/8	4 1/2
DBLS11/32A	11/32	2 3/4	4 1/2

DBLS105A Left Hand Drill Bit Set. DBLS1/8 through DBLS11/32 (5 pcs) in a plastic pouch.



DBH7A

Hex Shank

Stock No.	Size, inches
DBH1/16A	1/16
DBH3/32A	3/32
DBH1/8A	1/8
DBH5/32A	5/32
DBH3/16A	3/16
DBH7/32A	7/32
DBH1/4A	1/4

DBH7A Hex Shank Drill Bit Set. Includes DBH1/16A through DBH1/4A (1/16 to 1/4") in storage pouch.



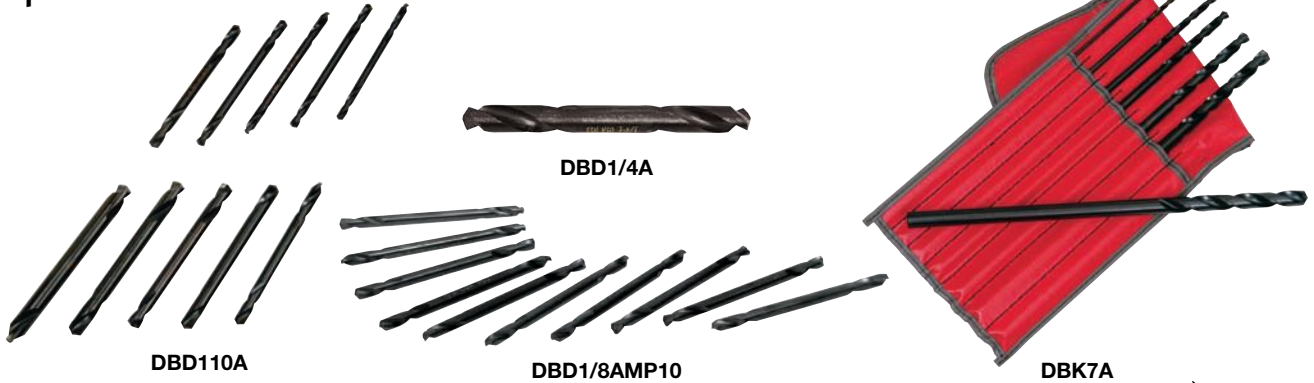
WARNING



• Read safety precautions on pages W1 to W4

POWER TOOL ACCESSORIES

Specialized Drill Bits



Double Ended 135° Split Point

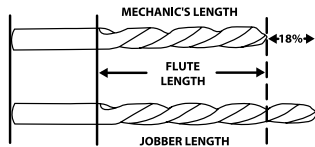
Stock No.	Size, inches	Stock No.	Size
DBD7/64A	7/64	DBD7/32A	7/32"
DBD1/8A	1/8	DBD1/4A	1/4"
DBD9/64A	9/64	DBD11A	#11
DBD5/32A	5/32	DBD20A	#20
DBD3/16A	3/16	DBD30A	#30

DBD110A Double Ended Drill Bit Set.

DBD7/64A through DBD30A (10 pcs) (7/64" to #30) in a plastic pouch.

DBD1/8AMP10 Double Ended Drill Bit (10 pack).

10 pack of DBD1/8A drill bits.



CSE485B

1/2" Reduced Shank Drill Bits 118° Point

- Ideal for cutting in low and medium tensile strength materials
- Flatted shank provides a more secure grip for the drill chuck

Stock No.	Size, inches
CSE345B	17/32
CSE365B	9/16
*CSE375	37/64
CSE385B	19/32
CSE405B	5/8
CSE425B	21/32
CSE445B	11/16
CSE465B	23/32
*CSE475	45/64
CSE485B	3/4
CSE505B	25/32
CSE525B	13/16
CSE565B	7/8
*CSE575	59/64
CSE605B	15/16
CSE645B	1

*Use with TDP6 pipe tap set on pg. 208.

Aircraft Length 135° Split Point

Extra long bits for drilling thick materials.

Stock No.	Size, inches	Flute Length, inches	Length, inches	Set Contains:
DBT1/8A	1/8	1 5/8	12	•
DBT3/16A	3/16	2 1/4	12	•
DBT1/4A	1/4	2 3/4	12	•
DBT5/16A	5/16	3 1/4	12	•
DBT3/8A	3/8	3 3/4	12	•
DBT7/16A	7/16	4	12	•
DBT1/2A	1/2	4 1/2	12	•



YA409

YA409 90° Angle Drill Kit.

- Allows drilling up to 1/4" holes in confined areas by positioning the bit at a 90° angle to the drill
 - Threaded drill bits provide consistent concentricity and eliminate slippage
- Kit includes:

YA409 Drive unit; Chucking spud
 YA409-316M 3/16" bit, 1 1/4" long
 YA409-18L 1/8" bit, 2 1/8" long
 YA409-332L 3/32" bit, 2 1/8" long

YA409-18M 1/8" bit, 1 1/4" long
 YA409-532M 5/32" bit, 1 1/4" long
 YA409-18S 1/8" bit, 3/4" long
 YA409-15 Storage Case

Accessories for YA409 Set

Size	2 1/8" Long Bit Stock No.	1 1/4" Medium Bit Stock No.	3/4" Short Bit Stock No.
#10	YA409-10L	YA409-10M	YA409-10S
#11			YA409-11S
#13			YA409-13S
#20			YA409-20S
#21			YA409-21S
#27			YA409-27S
#30	YA409-30L	YA409-30M	YA409-30S
#40	YA409-40L	YA409-40M	YA409-40S
3/32"	YA409-332L	YA409-332M	YA409-332S
1/8"	YA409-18L	YA409-18M	YA409-18S
9/64"			
5/32"	YA409-532L	YA409-532M	YA409-532S
3/16"	YA409-316L	YA409-316M	YA409-316S
1/4"	YA409-14L	YA409-14M	YA409-14S

YA409-6 Threaded Collet. Allows the use of 1/4" diameter shank grinding burs and abrasive wheels.

Specialized Drill Bits



YA263A



YA1TA

Titanium Nitride Step Drills

- Titanium nitride coating creates a surface hardness that makes these tools last 4 to 5 times longer than ordinary drill bits
- Surface coating also reduces friction, resulting in a tool that runs cooler while running dry

Step Drills

Size Range, inches	Increments, inches	Stock No.	Shank Size, inches	Hole Sizes Per Bit	Length, inches	
1/8 - 1/2	1/32	YA261A	1/4	13	3 1/4	•
3/16 - 1/2	1/16	YA262A	1/4	6	3 3/8	•
3/8		YA265A	1/4	1	1 5/8	
1/4 - 3/4	1/16	YA263A	3/8	9	2 5/8	•
3/16 - 7/8	1/16	YA267A	3/8	12	3	
9/16 - 1	1/16	YA266A	1/2	8	2 1/2	

Set Contains: YA2603A

Size Range	Increments	Stock No.	Shank Size	Hole Sizes Per Bit	Length, inches
1/8 - 1/2"	1/32"	YA1TA	1/4"	13	3 1/4
3/16 - 1/2"	1/16"	YA2TA	1/4"	6	3 1/4
1/4 - 3/4"	1/16"	YA3TA	3/8"	9	2 5/8
3/16 - 7/8"	1/16"	YA4TA	3/8"	12	3
4 - 12 mm	1 mm	YA1MTA	1/4" - 6.5 mm	9	3 1/4
6 - 18 mm	2 mm	YA3MTA	3/8" - 10 mm	7	2 5/8
4 - 22 mm	2 mm	YA4MTA	3/8" - 10 mm	10	3
5 - 35 mm	2 - 3 mm	YA5MTA	1/2" - 13 mm	13	3 3/32

Hole Saws

Hole Saws and Arbors

- High speed cutting edge welded to an alloy steel back to absorb shocks
- Cut clean, accurate holes in steel and cast iron pipe, steel plates, aluminum, copper, brass, stainless steel, wood or plastic
- Side slits make it easy to knock out the spent disks

Stock No.	Dia., inches	Recommended Arbors	Stock No.	Dia., inches	Recommended Arbors
LHS18D	9/16	LHS1C, LHS6C	LHS2D	1 5/8	LHS3D
LHS20D	5/8	LHS1C, LHS6C	LHS4D	1 11/16	LHS3D
LHS22D	11/16	LHS1C, LHS6C	LHS56D	1 3/4	LHS3D
LHS24D	3/4	LHS1C, LHS6C	LHS58D	1 13/16	LHS3D
LHS26D	13/16	LHS1C, LHS6C	LHS60D	1 7/8	LHS3D
LHS28D	7/8	LHS1C, LHS6C	LHS64D	2	LHS3D
LHS30D	15/16	LHS1C, LHS6C	LHS66D	2 1/16	LHS3D
LHS32D	1	LHS1C, LHS6C	LHS68D	2 1/8	LHS3D
LHS34D	1 1/16	LHS1C, LHS6C	LHS72D	2 1/4	LHS3D
LHS36D	1 1/8	LHS1C, LHS6C	LHS76D	2 3/8	LHS3D
LHS38D	1 3/16	LHS1C, LHS6C	LHS80D	2 1/2	LHS3D
LHS40D	1 1/4	LHS3D	LHS88D	2 3/4	LHS3D
LHS42D	1 5/16	LHS3D	LHS96D	3	LHS3D
LHS44D	1 3/8	LHS3D	LHS128D	4	LHS3D
LHS46D	1 7/16	LHS3D	LHS152D	5	LHS3D
LHS48D	1 1/2	LHS3D	LHS184D	6	LHS3D
LHS50D	1 9/16	LHS3D			



LHS18D



LHS48D



LHS64D



LHS608B



LHS606D

LHS608B Hole Saw and Arbor Kit. Includes LHS44D, LHS48D, LHS56D, LHS64D, LHS80D and LHS96D hole saws plus LHS6C and LHS3D arbors and LHS8C arbor adaptor (9 pcs) in storage case. Recommended speed charts are included.

LHS606D Hole Saw and Arbor Kit. Includes LHS24D, LHS28D, LHS32D, LHS36D and LHS40D hole saws plus LHS6C arbor and LHS8C arbor adaptor (7 pcs) in storage case. Recommended speed charts are included.

Hole Saw Arbors and Pilot Drills

Stock No.	Thread Size	Fits Saws, inches	Fits Drill Chucks, inches	Replacement Pilot Drill
LHS5C	1/2"-20	9/16 - 1 3/16	1/4	LHS4D
LHS6C	1/2"-20	9/16 - 1 3/16	3/8	LHS4D
LHS1C	1/2"-20	9/16 - 1 3/16	1/2	LHS4D
LHS3D	5/8"-18	1 1/4 - 6	3/8	LHS4D
LHS8C	Arbor adaptor to convert 1/2"-20 thread to 5/8"-18			



LHS5C



LHS1C



LHS6C



LHS8C



LHS3D



WARNING



• Read safety precautions on pages W1 to W4

POWER TOOL ACCESSORIES

Drilling Accessories



R120

R120 Tapered Reamer.

- Tapers from 1/8 to 1/2"
- Ideal for removing burrs and enlarging holes
- Includes crossbar

R121 Tapered Reamer.

- Tapers from 1/2 to 1"
- Similar to R120 but has a 3/8" square head for use with socket wrenches when extra torque is required

CL6 Cutting Oil.

- Superior antiweld and lubricating properties reduce heat buildup in drill bits, grinding burrs and other metal cutting tools
- 1 pt bottle



CL6



DEBUR300

DEBUR300 Deburring Tool.

- Easily deburr drilled and machined holes
- Pushbutton locking collet enables quick, easy blade changes
- Includes 3 round head deburring blades
- Blades store in handle of tool
- Weighs 1 lb
- 6" long

YA246A Micro Utility Drill Set.

- Knurled surface at chuck end of pin vise provides a sure gripping surface
- Long 1 7/8" drill length
- Includes pin vise and 12 precision HSS twist drills from .0635 to .0225", numbers 52 to 74

Applications: Fuel injectors, fuel lines, welding and soldering torch tips, shower heads, water jets, electronics and hobbies.



YA246A

Sander Accessories



PS4612-1AH



PS4612V-1AH



PSV4612KIT

PSV4312KIT



YA7341



PS468-34V



PS468-34HL

Replacement Pads

Stock No.	Size, inches	Type	Style	Use on:
PS4312-1H	3	PSA	Vacuum/Nonvacuum	PSF4312
PS4312-2H	3	Velcro®	Vacuum/Nonvacuum	PSF4312
PS4512-1AH	5	PSA	Nonvacuum	PS4512
PS4512V-1AH	5	PSA	Vacuum	PS4512
PS4512-2H	5	Velcro	Nonvacuum	PS4512
PS4512V-2H	5	Velcro	Vacuum	PS4512
PS4612-1AH	6	PSA	Nonvacuum	PS4612 & PSF4612
PS4612V-1AH	6	PSA	Vacuum	PS4612 & PSF4612
PS4612-2H	6	Velcro	Nonvacuum	PS4612 & PSF4612
PS4612V-2H	6	Velcro	Vacuum	PS4612 & PSF4612

Vacuum Adaptor Kits (contains vacuum adaptor & shroud)

PSV4312KIT	Vacuum Kit for 3" Sanders	PSF4312
PSV4612KIT	Vacuum Kit for 5 & 6" Sanders	PS4512, PS4612 & PSF4612

Stock No.	Size, inches	Type	Style	Use on:
PS468-34	6	PSA	Nonvacuum	PS4609
PS468-34V	6	PSA	Vacuum	PS4609
PS468-34HL	6	Velcro	Nonvacuum	PS4609
PS468-34VHL	6	Velcro	Vacuum	PS4609
PS468-35	8	PSA	Nonvacuum	PS4809
PS468-35V	8	PSA	Vacuum	PS4809
PS468-35HL	8	Velcro	Nonvacuum	PS4809
PS468-35VHL	8	Velcro	Vacuum	PS4809
AT116-3	2	Roloc	Nonvacuum	AT401MCA
AT116-4	3	Roloc	Nonvacuum	AT401MCA
AT402VEL75MM	3	Velcro	Nonvacuum	AT402MCA & AT403MCA
AT406B33	6	PSA	Nonvacuum	AT406B
AT406B30	6	Velcro	Nonvacuum	AT406B

Tune-up Kits (contains seals, o-rings, washers, valve, rotor & vanes)

PS43-TK	Tune-up Kit for 3" Sanders	PSF4312
PS46-TK	Tune-up Kit for 5 & 6" Sanders	PS4512, PS4612 & PSF4612

YA7341 Bonnet Cleaning Tool.

- Run the spur wheels over your buffing pad or bonnet and it will work to dislodge and remove dry, hardened polish

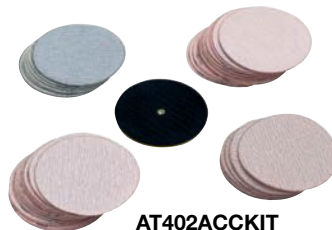


AT401ACCKIT

Micro Tool Accessory Kits

AT401ACCKIT Micro Surface Prep Accessory Kit.

- 1/4 turn abrasive disc in 2 different grits help get the job of removing rust, or gasket material done quickly, even in confined areas
- Kit contains all the consumables needed to restore a Micro Surface Prep Tool Kit back to new
- Kit Includes (1) 2" ROLOC® Pad 1/4" x 20T, (1) 3" ROLOC Pad 1/4" x 20T, (5) 2" 40 grit pads and (5) 3" 80 grit pads



AT402ACCKIT

AT402ACCKIT Micro Dual Action Sander Accessory Kit.

- Fresh backing pad with all the sanding disc needed to work the surface down until it is ready for paint
- Kit contains all the consumables needed to restore a Micro Dual Action Sander Tool Kit back to new
- Kit includes (1) 3" Velcro Pad 5/16" x 24T, (25) 3" 180 rit pads, (25) 3" 220 rit pads, (10) 3" 320 rit pads and (10) 3" 800 rit pads



AT403ACCKIT

AT403ACCKIT Micro Polisher Accessory Kit.

- All the pads needed to go from buffing to final polish
- Kit contains all the consumables needed to restore a Micro Polisher Tool Kit back to new
- Kit includes (1) 3" Velcro Pad 5/16" x 24T, (1) 3" Wool Pad and (1) Foam Waffle Pad

Wire Brushes/Flap Wheels (Blue-Point®)



Style/Application	Stock No.	Brush Diameter, inches	Shank Size Arbor Size, inches	Wire Diameter, inches	Maximum Rated RPM
Crimped for removing carbon from cylinder heads and valve parts	AC2D	1	1/4	.020	20,000
	AC3D	3/4	1/4	.020	20,000
Solid end for cleaning aluminum cylinder heads and transmission parts	AC16D	3/4	1/4	.006	20,000
Spiral twist for removing heavy deposits	AC6A	3/4	1/4	.014	20,000
	AC7D	1	1/4	.020	20,000
Cup type for cleaning wheel rims and scuffing tires	AC240B	1 1/2	1/4	.012	6,000
Hollow end crimped cup for light duty cleaning	AC241B	2 1/2	1/4	.012	6,000
Cup flared for deburring, cleaning hard to reach areas and wheel rims, and scuffing tires	AC208A	1 1/2	1/4	.008	20,000
	AC212A	1 1/2	1/4	.012	20,000
	AC214A	2 1/2	1/4	.014	18,000
	AC224A	3	1/4	.014	15,000
Encapsulated wire end brushes for a consistent stiff brushing action	AC204C	1/2	1/4	.014	8,000
	AC205C	3/4	1/4	.014	8,000
	AC206C	1	1/4	.014	8,000
Knotted type, single row wire cup for heavy duty surface applications	AC339A	3	5/8"-11	.020	12,500
	AC341B	3	5/8"-11	.012	7,000
	AC342B	4	5/8"-11	.020	7,000
	AC343A	4	5/8"-11	.014	6,000
Crimped cup for light duty cleaning	AC345	3	5/8"-11	.012	12,500



	Stock No.	Brush Dia., inches	Shank Size Arbor Size, inches	Wire Diameter, inches	Maximum Rated RPM
Knotted Wire Wheel for heavy duty cleaning	AC420A	4	5/8" - 11	.020	20,000
	AC421A	4	M10 x 1.25"	.020	20,000
Crimped Wire Wheel general purpose cleaner	AC616	3	1/4	.0118	20,000
Wire Brush medium duty general cleaner	AC17D	1	1/4	.006	20,000
	AC243	3	5/8" - 11	.014	14,000
End Brush ideal for cleaning right angle	AC10302	1/2	1/4	.014	25,000
	AC10306	3/4	1/4	.014	22,000

	Stock No.	Diameter, inches	Type	Grit	Quantity to Pack
Flap Discs	AC2240T27MP	2	27	40	10
	AC2260T27MP	2	27	60	10
	AC2280T27MP	2	27	80	10
	AC3240T27MP	3	27	40	10
	AC3260T27MP	3	27	60	10
	AC3280T27MP	3	27	80	10
	AC4260T27MP	4	27	60	10
Flap Wheels	AC3160FWMP	3		60	10
	AC3180FWMP	3		80	10
	AC31120FWMP	3		120	10

A24C Arbor Adaptor.

- Adapts electric drill to light duty grinding and wire brushing: use with wheels and brushes up to 4" in diameter
- Shank is 1/4": arbor is 1/2" in diameter; Length is 1 3/4"
- Maximum rated RPM: 20,000

AC13002 Drill Accessory Kit.

- Includes AC616 crimped wire wheel, AC240B crimped wire cup brush, AC3D crimped wire end brush and AC3180FWMP abrasive flap wheel

ACMANDREL Mandrel.

- 1/4" stem for use on 2 and 3" flap discs



WARNING



- Do not use power tool accessories above their maximum rated RPM
- Read safety precautions on pages W1 to W4

POWER TOOL ACCESSORIES

Cutting and Grinding Accessories (Blue-Point®)



AT415CWMP

AT415CWMP Cut Off Wheel.

- Use for metal notching and bolt cutting
- Use on 4 1/2" grinders with 5/8 x 11" thread arbor
- Maximum rated RPM: 13,300
- Front and back illustrated
- Package of 5 discs



AT415T27MP

AT415T27MP Grinding Wheel.

- Use for rough grinding applications
- Use on 4 1/2" grinders with 5/8 x 11" thread arbor
- Maximum rated RPM: 13,300
- Package of 5 discs



ETA125A

ETA125A Grinding Wheel Set.

- Use with ET1350/ET1360
- Maximum rated RPM: 12,000
- Package of 5 discs



AT415-20B

AT415-20B Grinding Disc.

- For AT415B grinder
- 4" diameter x 3/16" thick with 5/8" arbor hole
- Maximum rated RPM: 12,000
- Package of 5 discs



AT415A51

AT415A51 Grinding Discs.

- For AT415B grinder
- 4 1/2" diameter x 3/16" thick with 7/8" arbor hole
- Maximum rated RPM: 12,000
- Package of 5 discs



AT215GWSET

AT215GWSET 2" Grinding Wheel Set.

- Replacement grinding wheels for AT215 (2", 60 grit, 6 pcs)
- Maximum rated RPM: 20,000
- Package of 6 discs



ETA250A

ETA250A Grinding Wheel Set.

- 1/4 x 4 1/2 x 7/8"
- rit coarse (24)
- Maximum rated RPM: 12,000

AT116-3 ROLOC® Pad.

- 2" ROLOC Pad with 1/4" shaft
- Optional accessory for the AT116 Die rinder

AT116-4 ROLOC Pad.

- 3" ROLOC Pad with 1/4" shaft
- Optional accessory for the AT116 Die rinder



AT150C28A

AT150C28A

Cutter Wheels.

- 3" diameter x 1/32" thick with 3/8" arbor hole
- 54 grit
- Maximum rated RPM: 25,000
- Package of 6 discs



AC13001

AC13001 Mini Grinder Kit.

- Includes AC4Z60T27MP flap disc max RPM 13,000, AC339A knot cup brush max RPM 14,000 and AC402A knot wire wheel, max RPM 20,000



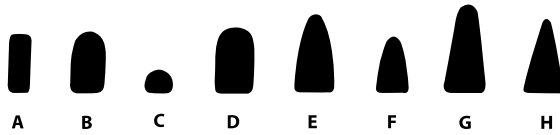
AC13003

AC13003 Cut/Grind/Finish Kit.

- Includes AC4Z60T27MP flap disc max RPM 13,000, AC339A knot cup brush max RPM 14,000, AT415T27MP grinding wheel max RPM 13,300 and (2) AT415CWMP cut off wheels max RPM 13,500

Grinding Burrs

Grinding burrs are ideal for use with Snap-on® die grinders described on p. 297-298. 1/4 and 1/8" shank burrs are available, all with solid carbide heads. The 1/8" shank units all have a max head diameter of 1/8".



Grinding Burr Styles

1/4" Shank, Burrs

	Stock No.	Style	Shank Length, in.	Flute Length, in.	Head Dia., in.	Recommended RPM				
						Cast Iron	Stainless			
1/4" Shank, Burrs Generally used for ferrous metals.	VWB1C	A		5/8	1/4	22,000	23,000	•		
	VWB9B	A		1	1/2	16,000	24,000			
	VWB2B	B		3/4	3/8	18,000	27,000	•		
	VWB10B	B		1	1/2	16,000	24,000			
	VWB3B	C			1/4	5/16	20,000	30,000	•	
	VWB4B	D			7/8	1/2	16,000	24,000	•	
	VWB11B	E			3/4	3/8	18,000	27,000		
	VWB5B	E			1	1/2	16,000	24,000	•	
	VWB6B	F			3/4	3/8	18,000	27,000	•	
	VWB7B	G			1 1/8	1/2	16,000	24,000	•	
1/4" Shank, Long Reach Burrs Use for surface conditioning of nonferrous materials like magnesium, soft steel and hard plastic plus porting of aluminum engine parts	VWBL401		4		3/8	14,000	17,000		•	
	VWBL402		4		3/8	14,000	17,000		•	
	VWBL403		4		3/8	14,000	17,000		•	
	VWBL404		4		3/8	14,000	17,000		•	
1/4" Shank, Wide Fluted Burrs For nonferrous metals, plastics, and softer material.	VWB206C	A		1	1/2	15,000	25,000			•
	VWB204C	A		3/4	1/4	15,000	25,000			•
	VWB203C	B		1	1/2	15,000	25,000			•
	VWB202C	E		1	1/2	15,000	25,000			•
	VWB201C	G		1 1/8	1/2	15,000	25,000			•
VWB205C	G		1 1/16	3/8	15,000	25,000			•	



VWB800D



VWBL400



VWB200C

1/8" Shank, Burrs

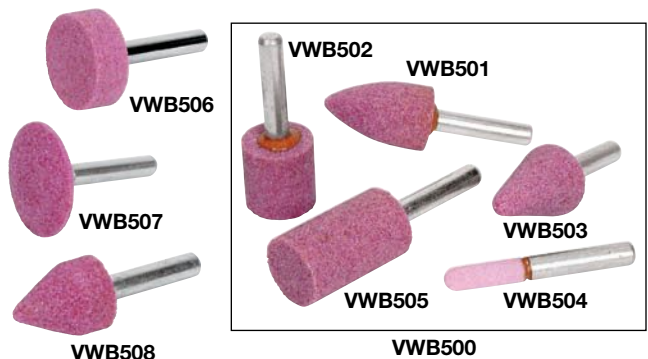
Stock No.	Style	Flute Length, in.	Recommended RPM		
			Cast Iron	Stainless	
VWB301B	A	9/16	20,000	75,000	•
VWB302B	B	9/16	20,000	75,000	•
VWB303B	C	1/8	20,000	75,000	•
VWB304B	D	7/32	20,000	75,000	•
VWB305B	E	1/2	20,000	75,000	•
VWB306B	F	3/8	20,000	75,000	•
VWB307B	G	1/2	20,000	75,000	•
VWB308B	H	7/16	20,000	75,000	•



VWB700A

1/4" Shank, Mounted Points

Stock No.	Size Inches	Maximum RPM	
VWB502	3/4 x 3/4	28,000	•
VWB503	3/4 x 1 1/8	28,000	•
VWB504	1/4 x 1 3/4	28,000	•
VWB505	3/4 x 1 1/4	28,000	•
VWB506	3/8 x 1	28,000	•
VWB507	1/4 x 1 1/4	28,000	•
VWB508	11/16 x 7/8	28,000	•



VWB500



WARNING



• Do not use power tool accessories above their maximum rated RPM
• Read safety precautions on pages W1 to W4

POWER TOOL ACCESSORIES

Air and Reciprocating Saw Blades



AT190-40C



AT190-42B



CTRS614MC



CTRS126GP



CTRS658DB



CTRS67WB

Air Saw Blades (Blue-Point®)

Bi-Metal Blades	AT192A	AT194A
Bi-Metal Blade Scroll, 18TPI, 3 3/4" long (qty. 5)	AT190-39C	AT190-39C
Bi-Metal Blade Scroll, 24TPI, 3 3/4" long (qty. 5)	AT190-40C	AT190-40C
Bi-Metal Blade Scroll, 32TPI, 3 3/4" long (qty. 5)	AT190-41C	AT190-41C
Bi-Metal Blade Multipurpose, 18TPI, 4" (qty. 5)	AT190-42B	
Bi-Metal Blade Multipurpose, 24TPI, 4" (qty. 5)	AT190-43B	
Bi-Metal Blade Multipurpose, 32TPI, 4" (qty. 5)	AT190-44B	

Metal Cutting Blades

Bi-metal reciprocating saw blades with precision ground teeth for maximum cutting power, greater control and higher speed.

Stock No.	Application / Material Thickness	Teeth per Inch	Blade Thickness, inches	Blade Length, inches	Qty, Each
CTRS614MC	Metal 1/8 to 3/8" thick	14	.035	6	5
CTRS914MC	Metal 1/8 to 3/8" thick	14	.035	9	5
CTRS618MC	Metal 1/8 to 1/4" thick	18	.035	6	5
CTRS918MC	Metal 1/8 to 1/4" thick	18	.035	9	5
CTRS624MC	Metal less than 1/8" thick	24	.035	6	5

General Purpose Blades

Versatile bi-metal blades for general purpose cutting of metal, plastic laminates and wood with nails.

Stock No.	Application / Material Thickness	Teeth per Inch	Blade Thickness, inches	Blade Length, inches	Qty, Each
CTRS658GP	Metal/Plastic/Wood	5 to 8 variable	.050	6	5
CTRS96GP	Metal/Plastic/Wood	6	.050	9	5
CTRS126GP	Metal/Plastic/Wood	6	.050	12	5

Demolition Blades

Extra heavy duty bi-metal blades with thicker body and variable 5/8 tooth pitch are ideal for heavy demolition work in wood with nails also strong enough to handle thick metals.

Stock No.	Application / Material Thickness	Teeth per Inch	Blade Thickness, inches	Blade Length, inches	Qty, Each
CTRS658DB	Nail Embedded Wood	5 to 8 variable	.062	6	5
CTRS958DB	Nail Embedded Wood	5 to 8 variable	.062	9	5

Wood Cutting Blades

Bi-metal blades with precision ground teeth for fast cutting of wood 3/8" and thicker.

Stock No.	Application / Material Thickness	Teeth per Inch	Blade Thickness, inches	Blade Length, inches	Qty, Each
CTRS67WB	Fast Cutting Wood 3/8" and thicker	7	.040	6	5
CTRS97WB	Fast Cutting Wood 3/8" and thicker	7	.040	9	5

Air Hammer Accessories

PHG1005AK



PHG1055K



Set Contains:

PHG1005AK
PHG1055K

Stock No.	Description	Application	Length, inches	Tip, inches		
PHG63A	Ball Joint and Tie Rod Separators	For separating ball joints and tie rods	7 3/8	13/16 opening		
PHG69A	Ball Joint and Tie Rod Separators	For separating ball joints and tie rods	7 3/8	1 opening		
PHG93A	Ball Joint and Tie Rod Separators	For separating ball joints and tie rods	8 3/4	1 1/4 opening		
PHG94A	Ball Joint and Tie Rod Separators	For separating ball joints and tie rods	7 13/16	5/8 opening		
PHG64A	Bent End Chisel	Shears ball joint rivets	10 1/2	5/8		
PHG76A	Bushing Cutter	For bushing cutting	6 1/4	1/2		
PH75A	Bushing Driver	For pneumatic bushing driving	5 1/2	1/2		
PHG155A	Cold Chisel	Cuts bolts, nuts, tees and angles. Also splits and bevels. Nonturn shank	7	21/32		
PHG85A	Curved Flat Chisel	For rivet cutting work	5 3/4	5/8		
PHG57A	Double Bladed Panel Cutter	For panels cutting and sheet metal cutting	6	3/4	•	•
PHG73A	Drift Punch	For punching out pins and other driving applications	6 1/2	1/2		•
PHG77	Drift Punch	For punching out pins and other driving applications that need extra reach	18	1/2		
PHG55A	Flat Chisel	For normal chisel cutting applications	6 1/2	3/4	•	•
PHG58B	Flat Chisel	For normal chisel cutting applications, when extra reach is needed	10	3/4		
PHG84A	Flat Chisel	For hammering application, when extra reach is needed	18	3/4		
PHG99	Flat Chisel	For normal chisel cutting applications, when a wide blade is needed	6 1/2	1 1/2		
PHG111	Hinge Pin Punch	Remove and install tube hinge pins on car and truck doors	7 3/8	0.237		
PHG112	Hinge Pin Punch	Remove and install tube hinge pins on car and truck doors	7 3/8	0.302		
PHG95A	Hole Punch	Punches 3/16" diameter starting hole in sheet metal to prepare it for use with CJ107 and CJ114 Body Dent Pullers.	5 5/8			
PHG66A	Inside Cutter	For cutting the exhaust pipe inside the flange	8 3/4	3/16		
PHG87A	Inside Cutter	For removing the tail pipe	8 3/4	7/8		
PH201	Needle Scaler	Projecting rods chip away rust and scale. Use only at low pressure	7 13/16			
PHG21	Offset Bushing Splitter	For bushing cutting, when extra reach is needed	8 3/8	5/8		
PHG65A	Outside Cutter	For cutting the muffler flange	8 5/8	7/8		
PHG151A	Panel Cutter	Edges and trims sheet metal. Cutting end is offset 25°. Nonturn shank	6 7/8	5/8		
PHG74A	Riveter	For 3/16" stem	5 13/16	1/2		
PHG78A	Riveter	For 1/4" stem	5 13/16	1/2		
PHG88A	Riveter	For forming heads on 3/16" compression rivets	5 13/16	1/2		
PHG89A	Riveter	For forming heads on 1/4" compression rivets	3 7/8	7/8		
PHG80A	Roll Pin Punch	For removing and installing roll pins	7 1/2	1/4		
PHG81A	Roll Pin Punch	For removing and installing roll pins	7 1/2	5/16		
PHG68	Round Hammer	For Hammering applications, when extra reach is needed	7	1		•
PHG71A	Round Hammer	For hammering applications	4 1/4	1		
PHG56A	Scraper	For scraping applications	6 3/16	1 5/16		
PHG51A	Sheet Metal Ripper	For sheet metal ripping and cutting	5 3/8	5/8	•	
PHG161A	Slitting Chisel	Cuts exhaust system pipes, 1/8" tip thickness. Nonturn shank	8 3/4	1		
PHG61A	Slitting Chisel	For cutting tail pipes and other surfaces	6 7/8	1	•	
PH1038	Socket Adaptor	Attaches to air hammer to provide vibration while turning stubborn fasteners. 3/4" hex, 3/8" square drive	5			
PHG70A	Spot Weld Breaker	For weld removal	6 1/4	3/4	•	
PHG59A	Tapered Punch	For removal of pins	6 1/2	3/16		•
PHG72A	U-Joint Trunion Driver	For needle type trunions	3 7/8	7/8		
PH200D	Universal Quick Change Chuck Retainer	Use for fast, easy insertion/removal of air hammer bits				
PHG83A	Valve Guide Remover	For removing and installing valve guides	190 mm	7.7 mm pilot		
PHG86A	Valve Guide Remover	For removing and installing valve guides	190 mm	9.3 mm pilot		
PHG91A	Valve Guide Remover	For removing and installing valve guides	189 mm	6.5 mm pilot		
PHG96A	Valve Guide Remover	For removing and installing valve guides	189 mm	6.9 mm pilot		
PHG97A	Valve Guide Remover	For removing and installing valve guides	189 mm	5.2 mm pilot		



WARNING



- Use air hammer accessories only for their intended application
- Do not use power tool accessories above their maximum rated RPM
- Read safety precautions on pages W1 to W4

POWER TOOL ACCESSORIES

Nonvented Blow Guns



JT13B



JT17A



JT14



JT23



JT24



YA4010



YA1050B



YA1050T1



AT4101



AT4113



AT4135



AT4116



AT4124



AT4180

Nonvented Blow Guns

Do not use nonvented blow guns above 30 psi air supply pressure.

JT13B Blow Gun (Blue-Point®).

- Tapered, rubber tip for a leak proof connection between gun and fluid line
- Vinyl coated control lever
- Hanging hook for storage
- 4 1/2" long

JT17A Blow Gun (Blue-Point). Same as JT13B except with a 3" tip extension in place of the rubber tip.

YA1050B Blow Gun (Blue-Point). Pistol grip style with front full size trigger. Infinitely variable flow. 10 1/4" long.

YA4010 Quick Change Tip. Conical rubber tip for YA1050B.

JT14 Blow Gun (Blue-Point). Industrial, interchange style coupler.

JT15 Blow Gun. Universal 1/4" pipe threading.

JT20 Blow Gun. ARO® style coupler.

JT21 Blow Gun. True flate style male coupler.

JT22 Blow Gun. Lincoln® style male coupler.

JT23 Blow Gun (Blue-Point). Solid brass. Industrial interchange style coupler.

JT24 Blow Gun (Blue-Point). Solid brass. ARO style coupler.

YA1050T1 Removable Star Tip.

- 20" bent nozzle
- Trigger provides variable air flow control
- Lightweight body with ergonomically designed grip provides comfort and control
- Venturi® tip directs air sideways if tip end is obstructed
- Reinforced 1/4"-18 NPT inlet

YA1050T2 Venturi Air Booster. Same as YA1050T1 except 13" bent nozzle.

YA1050T2 Venturi Air Booster. Venturi nozzle draws in ambient air for extra high flow increasing by 100%. Suitable for deflecting lightweight wood chips. Diverts air when dead ended, reducing the outlet pressure to less than 2 bar (29 psi).

YA1050T3 Rubber Tip Kit Rubber tip set for YA1050T2 blow gun.

YA1050T4 Chip/Fluid Shield. Chip/fluid shield for YA1050T2 blow gun.

AT4101 Blow Gun (4").

- Built-in valve system improves trigger control
- Impact resistant material for long lasting service
- Anodized blow tube for corrosion resistance
- Lifetime warranty (Accessories not included)

AT4113 Blow Gun (19").

- Built-in valve system improves trigger control
- Impact resistant material for long lasting service
- Anodized blow tube for corrosion resistance
- Lifetime warranty (Accessories not included)

AT4135 Blow Gun w/Air Adjustment.

- Built-in valve system improves trigger control
- Impact resistant material for long lasting service
- Anodized blow tube for corrosion resistance
- Lifetime warranty (Accessories not included)
- Sound level 78 dB (8 bar)
- Regulate flow with adjustable volume control
- Complies with OSHA safety standards

AT4116 Turbo By-Pass Nozzle. Increases air flow by 100% for use with AT4101, AT4113 and AT4135 blow guns

AT4124 Rubber Tip. Prevents scratching of surface for AT4101, AT4113 and AT4135 blow guns.

AT4180 Chip/Fluid Shield. Chip/fluid shield for AT4101 and AT4113 blow guns.



JT11AS



JT19A



YA1055B

Vented Blow Guns

Do not obstruct vents. Do not use vented blow guns above 135 psi maximum air supply pressure.

JT11AS Blow Gun.

- Paddle type air control lever regulates airflow from partial to full line pressure
- Valve has no cutoff and no restrictions
- Tip is side vented includes hanging hook
- 6 1/2" long, 4" tube
- Air inlet: 1/4"-18 NPT(f)

JT19A Venturi Tip Blow Gun.

- Directs air sideways if tip end becomes obstructed and increases airflow
- Includes stabilizer valve for variable pressure
- 1" hanging hook and paddle type air control lever
- Air inlet: 1/4"-18 NPT(f)

YA1055B Blow Gun.

- Variable flow trigger offers precise air flow control
- 6 outlet "star tip" delivers an even distribution of air
- 4" full flow tube
- Complies with OSHA safety standards
- Air inlet: 1/4"-18 NPT(f)

Air Hoses and Swivels



IM2005A



YA502M

Rubber Air Hoses

Ideal for industrial applications. Male threads at both ends.

Stock No.	Hose I.D., inches	Hose Length, feet	Thread Size	Maximum Pressure, psi
IM2001A	1/4	5	1/4"-18 NPT	300
IM2002A	3/8	5	3/8"-18 NPT	300
IM2004A	3/8	2	1/4"-18 NPT	300
IM2005A	3/8	25	1/4"-18 NPT	325
IM2008A	3/8	50	1/4"-18 NPT	325
IM2009A	1/2	50	3/8"-18 NPT	325

Air Swivel Connectors (Blue-Point)

- Swivels turn 360° at 2 points for complete tool maneuverability
- Air hoses hang straight to the floor

Stock No.	Thread Size	Maximum Pressure, psi	Airflow
YA502M	1/4" NPT	150	Up to 4.6 CFM (33 SCFM)
YA503M	3/8"-18 NPT	150	Up to 6.3 CFM (45 SCFM) [178 LPM]
ASC14	1/4" NPT	150	Up to 35 SCFM (991 LPM)
ASC14U	1/4" NPT	150	Up to 35 SCFM (991 LPM)



AIRHOSE35



BPPH3825



BPCH3825

Air Hoses/Reinforced Polyurethane

- Extremely lightweight for easy maneuverability
- Reinforced construction eliminates layer separation resulting from expansion and contraction during pulsating operations
- More abrasion resistant than PVC and rubber hoses
- Easy to wrap and store even in subzero weather
- UV stabilized for longer outdoor life
- Strain relief features a tight bending radius to virtually eliminate hose kinking
- Reusable fittings and strain reliefs for longer life

Stock No.	Color	Hose I.D., inches	Hose Length, feet	Thread Size	Temp. Range	Working Press.
AIRHOSE35	Red	3/8	35	1/4" NPT	-40 °F to 165 °F (-40 °C to 73.9 °C)	200 psi @ 70 °F (21 °C)
AIRHOSE50	Red	3/8	50	1/4" NPT	-40 °F to 165 °F (-40 °C to 73.9 °C)	200 psi @ 70 °F (21 °C)

Air Hoses Rubber/PVC (Blue-Point)

- Use from paint booth to service bay
- Rubber and PVC compound combines light weight with durability while maximizing flexibility
- Nonmarring hose material helps protect painted surfaces
- Won't kink or curl to help reduce tripping hazards

BPPH3825 Air Hose. 25'

BPPH3850 Air Hose. 50'

Air Hoses Polyurethane (Blue-Point)

- Use from bench work to service bay
- Polyurethane hose is light weight, durable and resists kinking plus has better memory than nylon
- Recoil design is self retracting and space efficient
- Nonmarring hose material helps protect painted surfaces
- Operating temperature range of -40 °F to +140 °F for use in all types of weather
- Swivel Fitting on long tail end for ease of use

BPCH3825 Air Hose. 25'



WARNING



- Do not direct blow gun at yourself or others
- Read safety precautions on pages W1 to W4

POWER TOOL ACCESSORIES

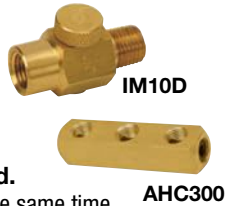
Air Line Couplers and Adaptors (Blue-Point®)



Air Valves and Manifolds

IM10D Air Valve.

- Volume of airflow can be regulated with 1/4 turn of control knob
- Male/female threads



AHC300 Multiline Air Manifold.

- Capacity of 3 air lines running at the same time
- Allows 3 workstations to use the same air supply
- Evenly distributes air through 3 different lines

Air Line Couplers and Adaptors

Body Size, inches	Style	Thread Size	Quick Coupler Male	Quick Coupler Female	Adaptor Male	Adaptor Female
1/4	Lincoln	1/4"-18 NPT		AHC26D	AHC26MD	AHC26FD
1/4	True-Flate	1/4"-18 NPT		AHC24D	AHC24MD	AHC27FD
3/8	True-Flate	3/8"-18 NPT		AHC25D	AHC25MD	AHC25FD
1/4	ARO	1/4"-18 NPT	AHC23PMD	AHC23D	AHC23MD	AHC23FD
1/4	Industrial Interchange	1/4"-18 NPT	AHC21PMD	AHC21D	AHC21MD	AHC21FD
3/8	Industrial Interchange	1/4"-18 NPT		AHC22E	AHC22MD	AHC22FD
3/8	Industrial Interchange	3/8"-18 NPT		AHC28D	AHC28MD	AHC28FD
1/2	Industrial Interchange	1/2"-14 NPT		AHC27D	AHC27MC	AHC27FD
1/4	Rigid Mounting*	1/4"-18 NPT		AHC21PD		
1/4	Hi-Flow	1/4"-18 NPT		AHCC98C	AHCCP97C	
1/4	Hi-Flow HVLP	1/4"-18 NPT	AHCC91C	AHCC90C		AHCCP90C

* Conforms to Mil Spec MIL-C-4109F

All adaptors are plated steel to improve durability



General Accessories



AT187

AT187 Engraving Pens (Blue-Point).

- Mark tools and other objects to prevent theft
- Use on hardened steel plate (up to HRC55), metals, glass, stone, ceramic, plastics and more
- Used for deburring operations plus reshaping screw or bolt heads for removal
- Rugged metal housing
- Knurled fingertip control
- Tips sold separately

Specifications	AT187
Recommended Air Pressure, psi	90
Air Consumption, average, cfm (scfm)	1.0 (7)
Free Speed, rpm	14,000
Sound Level, dBA	90
Air Inlet Thread Size	1/4"-18 NPT
Recommended Hose Size, inches	3/8
Hose Length, inches	59 1/2"
Overall Length, inches	5 1/2 without hose
Weight, lbs	.48



AT187-11 45 Thick Plate Carbide Tip.

For AT187.

AT187-13 30 Medium Plate Carbide Tip.

For AT187.

AT187-14 15 Thin Plate Carbide Tip.

For AT187.



CTTOTE

CTTOTE Power Tool Tote Bag.

- Wide opening for easy access to tools, extra padding for protection
- Durable 600 Denier® outside for strength
- Interior pockets and compartments for tool organization
- Padded handles for comfortable transport
- Reinforced bottom for strength
- 6 external pockets for extra storage
- Approximate inside dimensions, open: 18" L x 8" W x 11 1/2" D

BPTOTE Tote Bag (Blue-Point).

- Heavy duty 600 x 300 D polyester
- Water resistant, rugged and versatile
- Wide top opening for easy access
- Multiple interior and external pockets for organization
- Overall dimensions: 16 1/2" L x 10 1/2" W x 12 1/4" H



BPTOTE



IM1PTMP6

Lubrication Accessories

IM1PTMP6 Air Motor Oil.

- Cleans all piston and rotary air motors and helps prevent rust formation
- 6 pack of IM1PT 16 oz bottles

IM1OZMP12 Air Motor Oil.

- 12 pack of 1 oz bottles

TOOL STORAGE



Overview	326
Roll Cab	328
Quick Reference	
EPIQ Series	329
Masters Series	340
Classic Series	356
Heritage Series	362
Mobile Solutions	369
Accessories	377

Scan to learn about innovations in tool storage from Snap-on

www.snapon.com/1200/toolstorage



TOOL STORAGE THAT SPEAKS LOUDER THAN WORDS

Owning Snap-on® tool storage says a lot:
you're proud, you're professional, you don't cut corners

**Personalize. Customize. Organize.
Never Compromise.**

You're buying productivity when you specify
a storage unit configured to your needs

BREADTH Solutions for every job, from the
ground-breaking EPIQ to the Masters, Classic
and Heritage Series, as well as carts and
specialty storage

SYSTEM EXPANSION Gives you the options to
grow with your tool collection and your capabilities

Inspired Innovation

From your inspiration came industry leading
features that work the way you do and details
that matter

POWERED TOOL STORAGE Charge your tools
while securely storing them in the revolutionary
EPIQ Series with PowerBank™

MOBILE STORAGE More ways to take your
tools where you need them, from roll cabs to carts
to the one-of-a-kind Road Chest

IMPULSE™ DRAWERS Intuitive flush finish
drawers that are easier to open, smoother to close
and don't drift

Tough. Reliable. Functional.

Snap-on tool storage units are designed
and built to last and tested to the extremes

STRUCTURAL CONTINUITY A structural,
integrated bond making the overall strength
of the unit greater than the sum of its parts

DOUBLE WALL CONSTRUCTION Guards
against faulty drawer operation caused by dents
and dings

HIGH-END PAINT Ultra-tough powder coat
process provides impressive finishes in a variety
of colors



TOOL STORAGE

Roll Cab - Quick Reference Chart



	Features	EPIQ	Masters	Classic	Heritage	Blue-Point
Steel Gauge:	Bottom	16 (14 Gauge Super Duty Skid Support System)	16 (14 Gauge Extra Heavy Duty Skid Support System)	16 (14 Gauge Heavy Duty Skid Support System)	16 (14 Gauge Heavy Duty Skid Support System on 53" Roll Cabs)	16
	Top	16 (Super Duty Stiffeners)	16 (Extra HD Stiffeners)	16 (Heavy Duty Stiffeners)	16 (Medium Duty Stiffeners on 53")	16
	Back	16	16	16	18	20
	Side	16	16	16	18	20
	False Side Panels	18	18	18	20	20
	Drawer Front	18	18	18	20	20
	Drawer Body	18	18	18	18/20	20
	Drawer Back	18	18	18	20	20
	Standing Seam	•	•			
Corner Gussets	4	4	4	4 (53"); 2 (40")	2	
Features:	Slides, lbs. (ball bearing)	227	227	120	120	80-100
	Handle	Chrome w/grips	Chrome w/insert	Ergonomic	Ergonomic	Straight
	Drawer Trim	Dual-function Aluminum	Aluminum Installed	Aluminum Installed	Aluminum Installed	Gray Polymer
	Case Trim	Alum. Wrap Installed	Aluminum Installed			
	Lock	Removeable Core	Removeable Core	Removeable Core	Removeable Core	Flat Key
	Casters	7" x 2" Super Duty ISO-Ride® 8,000 lbs	6" x 2" Extra Heavy ISO-Ride 6,800 lbs*	6" x 2" 2,400 lbs	6" x 2" 2,400 lbs	5" x 1.25" 1,120 lbs
	Caster/ Handle Mounting	Weld Nut/ Heavy Plate	Weld Nut/ Heavy Plate	Weld Nut/ Heavy Plate	Weld Nut & Plate	Weld Nut
	Top Mat	Nondirectional Rubber	Nondirectional Rubber	Nondirectional Rubber	Unidirectional Rubber	Rubber
	Drawer Liner	Nonslip Premium	Nonslip Premium	Semi Nonslip	Foam	Foam
	Drawer Retention	<i>InPulse</i>	<i>Lock-n-Roll</i>	<i>Lock-n-Roll</i>	<i>Lock-n-Roll</i>	
	Paint	All Powder Coat Scratch Resistant	All Powder Coat Scratch Resistant	All Powder Coat Scratch Resistant	All Powder Coat Scratch Resistant	All Powder Coat Scratch Resistant
	Colors Available	12 Standard	10 Standard	7 Standard	4 Standard	Red & Blue
Integrated Power Available	•	Optional Cabinet				

*6800 lbs casters on all Masters except KRL722A, KRL756B, KRL1056B
Tools shown in tool storage not included

Created By Techs. For Techs.

When Snap-on wanted to improve on already legendary tool storage, it went to the people who know the work best. Technicians. The result? The first fully-powered tool storage unit that works the way you do. At its core, EPIQ Series is about a passion for excellence.

PowerBank™ — Charge and store your cordless tools in this lockable bank.

PowerHouse™ — Power and store a diagnostic tool or PC under the lockable flip-top.

PowerTop™ — A stainless steel work surface with integrated power sources accommodates laptops, power tools and a variety of accessories.



Designed to Perform.

Power is not the only thing that sets the EPIQ Series apart. Every component is the best Snap-on has to offer and many are EPIQ exclusives. Every facet of the construction is built without compromise.

InPulse™ Drawers — Intuitive flush finished drawers for the ultimate in performance and professional look.

ISO-Ride® Casters — 7" swivel-lock mag wheels with independent spring suspension for a smooth ride.

Standing Seams — Increases the overall strength, protects you from unnecessary bumps and bruises.

Corner Gussets — Reinforcement in the corners to prevent racking, even under the heaviest loads.

Structural Support — Stiffeners, gussets and reinforcements used in strategic places throughout the drawers and roll cab.



EPIQ SERIES

Quick Reference Chart



Roll Cabs	Specifications	KERP842B	KERN842B	KERP843B	KERN843B	KERP762B	KERP763B	KERN682B	KERN602B
Capacity	Approx Cubic Inches (cm³)	55,670 (912,268)	55,550 (910,301)	53,407 (875,184)	53,316 (873,693)	49,719 (814,748)	47,485 (778,140)	43,922 (719,753)	38,000 (622,708)
	Approx Square Inches (cm²)	13,541 (87,361)	13,769 (88,832)	13,876 (89,522)	13,898 (89,664)	11,985 (77,322)	12,114 (78,155)	12,412 (80,077)	10,650 (68,710)
	Load Capacity, lbs (kg)	8,000 (3,629)	8,000 (3,629)	8,000 (3,629)	8,000 (3,629)	8,000 (3,629)	8,000 (3,629)	8,000 (3,629)	8,000 (3,629)
Footprint	Width, inches (mm)	84 (2,134)	84 (2,134)	84 (2,134)	84 (2,134)	76 (1,930)	76 (1,930)	68 (1,727)	60 (1,524)
	Depth, inches (mm)	30 (762)	30 (762)	30 (762)	30 (762)	30 (762)	30 (762)	30 (762)	30 (762)
	Height, inches (mm)	46 7/8 (1,191)	46 7/8 (1,191)	46 7/8 (1,191)	46 7/8 (1,191)	46 7/8 (1,191)	46 7/8 (1,191)	46 7/8 (1,191)	46 7/8 (1,191)
Drawers	Drawer Banks	2	2	3	3	2	3	2	2
	Drawer Count	8	13	14	19	8	14	13	13
	Widest Drawer, inches (mm) [Qty]	62 (1,575) [7]	54 (1,372) [7]	62 (1,575) [2]	54 (1,372) [2]	54 (1,372) [7]	54 (1,372) [2]	62 (1,575) [2]	54 (1,372) [2]
	Slides, lbs (kg) [ball bearing]	227 (103)	227 (103)	227 (103)	227 (103)	227 (103)	227 (103)	227 (103)	227 (103)
	Double Slide (included)	Yes (5)	Yes (6)	Yes (3)	Yes (4)	Yes (5)	Yes (3)	Yes (3)	Yes (3)
Extras	Writing Surface (Qty)	Yes (1)	Yes (1)	Yes (1)	Yes (1)	Yes (1)	Yes (1)	Yes (1)	Yes (1)
	Third Caster Set Option	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Weight	Net Weight, lbs (kg)	990 (449)	1,044 (474)	990 (449)	1,044 (474)	936 (425)	936 (425)	832 (377)	774 (351)
	Shipping Weight, lbs (kg)	990 (449)	1,044 (474)	990 (449)	1,044 (474)	936 (425)	936 (425)	946 (429)	880 (399)
EPIQ Configurations	PowerBank unit	Yes	No	Yes	No	Yes	Yes	No	No
	Nondirectional Rubber Top	KERP842B0	KERN842B0	KERP843B0	KERN843B0	KERP762B0	KERP763B0	KERN682B0	KERN602B0
	Stainless Steel PowerTop	KERP842B4	KERN842B4	KERP843B4	KERN843B4	KERP762B4	KERP763B4	KERN682B4	KERN602B4
	Stainless Steel PowerHouse Top	KERP842B5	KERN842B5	KERP843B5	KERN843B5	KERP762B5	KERP763B5	—	—
Optional Add-ons Available	Top Chest	KECN842A	KECN842A	KECN843A	KECN843A	—	—	KECN682A	KECN602A
	Top Drawer Section	KESN842A	KESN842A	KESN843A	KESN843A	—	—	KESN682A	KESN602A
	Bulk Side Cabinet	KEBN301AL KEBN301AR	KEBN301AL KEBN301AR	KEBN301AL KEBN301AR	KEBN301AL KEBN301AR	KEBN301AL KEBN301AR	KEBN301AL KEBN301AR	KEBN301AL KEBN301AR	KEBN301AL KEBN301AR
	Locker	KELN301BL KELN301BR	KELN301BL KELN301BR	KELN301BL KELN301BR	KELN301BL KELN301BR	KELN301BL KELN301BR	KELN301BL KELN301BR	KELN301BL KELN301BR	KELN301BL KELN301BR
	WorkCenter	KEWN840A KEHN840B	KEWN840A KEHN840B	KEWN840A KEHN840B	KEWN840A KEHN840B	KEWN760A KEHN760B	KEWN760A KEHN760B	KEWN680A KEHN680B	KEWN600A KEHN600B
	Stainless Steel PowerTop	KWSP3084BST	KWSP3084BST	KWSP3084BST	KWSP3084BST	KWSP3076BST	KWSP3076BST	KWSP3068BST	KWSP3060BST
	Stainless Steel PowerHouse Top	KWSH3084BST	KWSH3084BST	KWSH3084BST	KWSH3084BST	KWSH3076BST	KWSH3076BST	—	—
	Stainless Steel Work Surfaces	KWSN3084BST	KWSN3084BST	KWSN3084BST	KWSN3084BST	KWSN3076BST	KWSN3076BST	KWSN3068BST	KWSN3060BST
	Bedliner Steel Work Surface	KWSN3084ABL	KWSN3084ABL	KWSN3084ABL	KWSN3084ABL	KWSN3076ABL	KWSN3076ABL	KWSN3068ABL	KWSN3060ABL
	Hardwood Top	KWSN3084AWT	KWSN3084AWT	KWSN3084AWT	KWSN3084AWT	KWSN3076AWT	KWSN3076AWT	KWSN3068AWT	KWSN3060AWT

Tools shown in tool storage not included

Colors Available



All EPIQ Series units are available in 12 standard colors.
Add suffix to base stock number for special colors.

Roll Cab - Quick Reference Chart



Roll Cabs	Specifications	KEXP725A	KEXN725A	KEXN603A
Capacity	Approx Cubic Inches (cm ³)	91,690 (1,501,882)	91,627 (1,500,850)	77,672 (1,272,267)
	Approx Square Inches (cm ²)	25,319 (163,308)	25,340 (163,443)	22,690 (146,351)
	Load Capacity, lbs (kg)	16,000 (7,258)	16,000 (7,258)	16,000 (7,258)
Footprint	Width, inches (mm)	144 (3,658)	144 (3,658)	120 (3,048)
	Depth, inches (mm)	30 (762)	30 (762)	30 (762)
	Height, inches	46 7/8 (1,191)	46 7/8 (1,191)	46 7/8 (1,191)
Drawers	Drawer Banks	5	5	3
	Drawer Count	26	31	20
	Widest Drawer, inches (Qty)	62" (3)	54" (6)	54" (11)
	Slides, lbs (ball bearing)	227	227	227
	Double Slide (included)	Yes (7)	Yes (7)	Yes (8)
	Extras	Writing Surface (Qty)	Yes (1)	Yes (1)
	Third Caster Set Option	N/A	N/A	N/A
Weight	Shipping Weight, lbs	1,925 (873)	1,925 (873)	1,970 (802)

Cont.	Specifications	KEXP725A	KEXN725A	KEXN603A
EPIQ Configurations	PowerBank unit	Yes	No	No
	Nondirectional Rubber Top	KEXP725A0	KEXN725A0	KEXN603A0
	Stainless Steel PowerTop	KEXP725A1	KEXN725A1	KEXN603A1
Optional Add-ons Available	Top Drawer Section	KESN843A KESN602A	KESN843A KESN602A	KESN602A
	Side Cab	KEBN302AL KEBN302AR	KEBN302AL KEBN302AR	KEBN302AL KEBN302AR
	Locker	KELN302BL KELN302BR	KELN302BL KELN302BR	KELN302BL KELN302BR
	WorkCenter	KEWN840A KEWN600A	KEWN840A KEWN600A	KEWN602A
	Overhead	KEHN840B KEHN600B	KEHN840B KEHN600B	KEHN600B
	Stainless Steel Top	KWSN3012AST	KWSN3012AST	KWSN3010AST
	Stainless Steel PowerTop	Choose combination of 60" and 84" tops. See page 381 for part numbers.		Choose combination of 60" tops. See page 381 for part numbers.
	Stainless Steel PowerHouse Top			
	Hardwood Top	KWSN3012AWT	KWSN3012AWT	KWSN3010AWT
	Bed Liner Top	KWSN3012ABL	KWSN3012ABL	KWSN3010ABL

Tools shown in tool storage not included



KEXP725A0PJK

EPIQ Series Roll Cab Drawer Sizes

Width		Depth		Height		KEXP725A
Inches	mm	Inches	mm	Inches	mm	Drawers
11 5/8	295	26 13/16	681	30 1/2	775	1
19 5/8	498	26 7/8	683	1 11/16	43	6
19 5/8	498	27 15/16	710	3 15/16	100	1
19 5/8	498	27 15/16	710	6 3/16	157	1
19 5/8	498	27 15/16	710	10 5/8	270	1
30 1/16	764	26 7/8	683	1 11/16	43	3
30 1/16	764	27 15/16	710	3 15/16	100	1
30 1/16	764	27 15/16	710	6 3/16	157	1
38 1/16	967	26 7/8	683	1 11/16	43	3
38 1/16	967	27 15/16	710	3 15/16	100	1
38 1/16	967	27 15/16	710	6 3/16	157	1
54 1/16	1,373	27 15/16	710	2 11/16	68	1
54 1/16	1,373	27 15/16	710	3 13/16	97	1
54 1/16	1,373	27 15/16	710	4 7/8	124	1
62 1/16	1,576	27 15/16	710	2 11/16	68	1
62 1/16	1,576	27 15/16	710	3 13/16	97	1
62 1/16	1,576	27 15/16	710	4 7/8	124	1
Total Drawer Count						26

Tools shown in tool storage not included



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

EPIQ SERIES

Roll Cabs



KEXN725A1PES



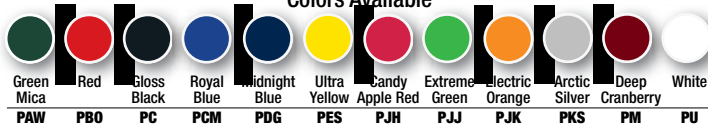
KEXN603A0PJJ

EPIQ Series Roll Cab Drawer Sizes

Width		Depth		Height		KEXN725A	KEXN603A
Inches	mm	Inches	mm	Inches	mm	Drawers	Drawers
19 5/8	498	26 7/8	683	1 11/16	43	8	3
19 5/8	498	27 15/16	710	10 5/8	270	2	1
30 1/16	764	26 7/8	683	1 11/16	43	6	3
30 1/16	764	27 15/16	710	3 15/16	100	2	1
30 1/16	764	27 15/16	710	6 3/16	157	2	1
54 1/16	1,373	26 7/8	683	1 11/16	43		3
54 1/16	1,373	27 15/16	710	2 11/16	68	2	2
54 1/16	1,373	27 15/16	710	3 13/16	97	2	3
54 1/16	1,373	27 15/16	710	4 7/8	124	2	2
54 1/16	1,373	27 15/16	710	6	152		1
Total Drawer Count						31	20

Tools shown in tool storage not included

Colors Available



All EPIQ Series units are available in 12 standard colors.
Add suffix to base stock number for special colors.



KERP763B4PCM
76" EPIQ with PowerBank™ Unit and PowerTop™.



KERP763B0PDG
76" EPIQ with PowerBank Unit.



KERP763B5PES
76" EPIQ with PowerBank Unit and PowerHouse Top.



KERP843B5PJK
84" EPIQ with PowerBank Unit and PowerHouse™ Top.



KERP843B4PKS
84" EPIQ with PowerBank Unit and PowerTop Unit.



KERP843B0PJH
84" EPIQ with PowerBank Unit.

EPIQ Series Roll Cab Drawer Sizes

Width		Depth		Height		KERP763B	KERP843B
Inches	mm	Inches	mm	Inches	mm	Drawers	Drawers
11 5/8	295	26 13/16	681	30 1/2	775	1	1
19 5/8	498	26 7/8	683	1 11/16	43	3	3
19 5/8	498	27 15/16	710	3 15/16	100	1	1
19 5/8	498	27 15/16	710	10 5/8	270	1	1
30 1/16	764	26 7/8	683	1 11/16	43	3	
30 1/16	764	27 15/16	710	3 15/16	100	2	
30 1/16	764	27 15/16	710	6 3/16	157	1	
38 1/16	967	26 7/8	683	1 11/16	43		3
38 1/16	967	27 15/16	710	3 15/16	100		2
38 1/16	967	27 15/16	710	6 3/16	157		1
54 1/16	1,373	27 15/16	710	2 11/16	68	1	
54 1/16	1,373	27 15/16	710	4 7/8	124	1	
62 1/16	1,576	27 15/16	710	2 11/16	68		1
62 1/16	1,576	27 15/16	710	4 7/8	124		1
Total Drawer Count						14	14

Tools shown in tool storage not included



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

EPIQ SERIES

Roll Cabs



KERP762B5PU
76" EPIQ with *PowerBank* Unit and *PowerHouse™* Top.



KERP762B4PBO
76" EPIQ with *PowerBank™* Unit and *PowerTop™*.



KERP762B0PC
76" EPIQ with *PowerBank* Unit.



KERP842B4PAW
84" EPIQ with *PowerBank* Unit and *PowerTop*.



KERP842B5PBO
84" EPIQ with *PowerBank* Unit and *PowerHouse* Top.



KERP842B0PJJ
84" EPIQ with *PowerBank* Unit.

EPIQ Series Roll Cab Drawer Sizes

Width		Depth		Height		KERP762B	KERP842B
Inches	mm	Inches	mm	Inches	mm	Drawers	Drawers
11 5/8	295	26 13/16	681	30 1/2	775	1	1
54 1/16	1,373	26 7/8	683	1 11/16	43	1	
54 1/16	1,373	27 15/16	710	2 11/16	68	1	
54 1/16	1,373	27 15/16	710	3 13/16	97	3	
54 1/16	1,373	27 15/16	710	4 7/8	124	1	
54 1/16	1,373	27 15/16	710	6	152	1	
62 1/16	1,576	26 7/8	683	1 11/16	43		1
62 1/16	1,576	27 15/16	710	2 11/16	68		1
62 1/16	1,576	27 15/16	710	3 13/16	97		3
62 1/16	1,576	27 15/16	710	4 7/8	124		1
62 1/16	1,576	27 15/16	710	6	152		1
Total Drawer Count						8	8

Tools shown in tool storage not included



All EPIQ Series units are available in 12 standard colors.
Add suffix to base stock number for special colors.



KERN842B4PC
84" EPIQ with PowerTop™.



KERN842B0PBO
84" EPIQ.



KERN842B5PBO
84" EPIQ with PowerHouse™ Top.



KERN843B5PCM
84" EPIQ with PowerHouse Top.



KERN843B4PC
84" EPIQ with PowerTop.



KERN843B0PKS
84" EPIQ.

EPIQ Series Roll Cab Drawer Sizes

Width		Depth		Height		KERN842B	KERN843B
Inches	mm	Inches	mm	Inches	mm	Drawers	Drawers
19 5/8	498	26 7/8	683	1 11/16	43	2	5
19 5/8	498	27 15/16	710	3 15/16	100	2	3
19 5/8	498	27 15/16	710	6 3/16	157	1	1
19 5/8	498	27 15/16	710	10 5/8	270	1	2
30 1/16	764	26 7/8	683	1 11/16	43		3
30 1/16	764	27 15/16	710	3 15/16	100		2
30 1/16	764	27 15/16	710	6 3/16	157		1
54 1/16	1,373	26 7/8	683	1 11/16	43	1	
54 1/16	1,373	27 15/16	710	2 11/16	68	1	1
54 1/16	1,373	27 15/16	710	3 13/16	97	3	
54 1/16	1,373	27 15/16	710	4 7/8	124	1	1
54 1/16	1,373	27 15/16	710	6	152	1	
Total Drawer Count						13	19



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

EPIQ SERIES

Roll Cabs



KERN602B4PBO
60" EPIQ with PowerTop™.



KERN602B0PJJ
60" EPIQ.



KERN682B0PU
68" EPIQ.



KERN682B4PAW
68" EPIQ with PowerTop.

EPIQ Series Roll Cab Drawer Sizes

Width		Depth		Height		KERN602B	KERN682B
Inches	mm	Inches	mm	Inches	mm	Drawers	Drawers
19 5/8	498	26 7/8	683	1 11/16	43	3	3
19 5/8	498	27 15/16	710	3 15/16	100	1	1
19 5/8	498	27 15/16	710	10 5/8	270	1	1
30 1/16	764	26 7/8	683	1 11/16	43	3	
30 1/16	764	27 15/16	710	3 15/16	100	2	
30 1/16	764	27 15/16	710	6 3/16	157	1	
38 1/16	967	26 7/8	683	1 11/16	43		3
38 1/16	967	27 15/16	710	3 15/16	100		2
38 1/16	967	27 15/16	710	6 3/16	157		1
54 1/16	1,373	27 15/16	710	2 11/16	68	1	
54 1/16	1,373	27 15/16	710	4 7/8	124	1	
62 1/16	1,576	27 15/16	710	2 11/16	68		1
62 1/16	1,576	27 15/16	710	4 7/8	124		1
Total Drawer Count						13	13

Colors Available



All EPIQ Series units are available in 12 standard colors.
Add suffix to base stock number for special colors.

KECN602A0 Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
28,259 (462,882)	8,344 (53,819)	525 (238)	605 (274)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	10	60 (1,524)	30 (762)	27 1/2 (699)
Drawers	2	19 5/8 (498)	26 7/8 (683)	1 11/16 (43)
	3	19 5/8 (498)	27 15/16 (710)	3 15/16 (100)
	2	30 1/16 (764)	26 7/8 (683)	1 11/16 (43)
	3	30 1/16 (764)	27 15/16 (710)	3 15/16 (100)
Top Compartment	1	54 (1,372)	27 15/16 (710)	4 7/8 (124)



KECN602A0PBO

KECN682A0 Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
32,714 (535,855)	9,668 (62,359)	600 (272)	685 (311)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	10	68 (1,727)	30 (762)	27 1/2 (699)
Drawers	2	19 5/8 (498)	26 7/8 (683)	1 11/16 (43)
	3	19 5/8 (498)	27 15/16 (710)	3 15/16 (100)
	2	38 1/16 (967)	26 7/8 (683)	1 11/16 (43)
	3	38 1/16 (967)	27 15/16 (710)	3 15/16 (100)
Top Compartment	1	62 (1,575)	27 15/16 (710)	4 7/8 (124)



KECN682A0PC

KECN842A0 Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
41,331 (677,002)	12,372 (79,799)	750 (340)	850 (386)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	10	84 (2,134)	30 (762)	27 1/2 (699)
Drawers	2	54 1/16 (1,373)	26 7/8 (683)	1 11/16 (43)
	3	54 1/16 (1,373)	27 15/16 (710)	3 15/16 (100)
	2	19 5/8 (498)	26 7/8 (683)	1 11/16 (43)
	3	19 5/8 (498)	27 15/16 (710)	3 15/16 (100)
Top Compartment	1	80 (2,032)	27 15/16 (710)	4 7/8 (124)



KECN842A0PU

KECN843A0 Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
40,356 (656,117)	11,770 (75,917)	750 (340)	850 (386)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	15	84 (2,134)	30 (762)	27 1/2 (699)
Drawers	4	19 5/8 (498)	26 7/8 (683)	1 11/16 (43)
	6	19 5/8 (498)	27 15/16 (710)	3 15/16 (100)
	2	30 1/16 (764)	26 7/8 (683)	1 11/16 (43)
	3	30 1/16 (764)	27 15/16 (710)	3 15/16 (100)
Top Compartment	1	80 (2,032)	27 15/16 (710)	4 7/8 (124)



KECN843A0PDG



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

EPIQ SERIES

Drawer Sections



KESN602A0PBO

KESN602A0 Series Drawer Sections

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
26,370 (431,941)	8,223 (53,038)	525 (238)	605 (274)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	12	60 (1,524)	30 (762)	27 1/2 (699)
Drawers	2	19 5/8 (498)	26 7/8 (683)	1 11/16 (43)
	4	19 5/8 (498)	27 15/16 (710)	3 15/16 (100)
	2	30 1/16 (764)	26 7/8 (683)	1 11/16 (43)
	4	30 1/16 (764)	27 15/16 (710)	3 15/16 (100)



KESN682A0PC

KESN682A0 Series Drawer Sections

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
30,616 (501,490)	9,547 (61,578)	600 (272)	685 (311)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	12	68 (1,727)	30 (762)	27 1/2 (699)
Drawers	2	19 5/8 (498)	26 7/8 (683)	1 11/16 (43)
	4	19 5/8 (498)	27 15/16 (710)	3 15/16 (100)
	2	38 1/16 (967)	26 7/8 (683)	1 11/16 (43)
	4	38 1/16 (967)	27 15/16 (710)	3 15/16 (100)



KESN842A0PU

KESN842A0 Series Drawer Sections

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
38,352 (628,206)	12,195 (78,658)	750 (340)	850 (386)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	12	84 (2,032)	30 (762)	27 1/2 (699)
Drawers	2	19 5/8 (498)	26 7/8 (683)	1 11/16 (43)
	4	19 5/8 (498)	27 15/16 (710)	3 15/16 (100)
	2	54 1/16 (1,373)	26 7/8 (683)	1 11/16 (43)
	4	54 1/16 (1,373)	27 15/16 (710)	3 15/16 (100)



KESN843A0PDG

KESN843A0 Series Drawer Sections

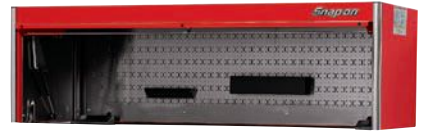
Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
36,785 (602,538)	11,471 (73,988)	750 (340)	850 (386)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	18	84 (2,032)	30 (762)	27 1/2 (699)
Drawers	4	19 5/8 (498)	26 7/8 (683)	1 11/16 (43)
	8	19 5/8 (498)	27 15/16 (710)	3 15/16 (100)
	2	30 1/16 (764)	26 7/8 (683)	1 11/16 (43)
	4	30 1/16 (764)	27 15/16 (710)	3 15/16 (100)



All EPIQ Series units are available in 12 standard colors. Add suffix to base stock number for special colors.

EPIQ WorkCenters - Stainless Steel, Bed Liner or Butcher Block
worksurface required to use WorkCenter.

	Overall			Inside			Square Inches (cm ²)	Cubic Inches (cm ³)	Weight Net/Ship, lbs (kg)
	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)			
KEWN840AO	84 (2,134)	30 (762)	25 1/2 (648)	80 9/16 (2,046)	26 5/8 (676)	25 (635)	5,130 (33,090)	38,924 (657,575)	355 (161) 410 (186)
KEWN760AO	76 (1,930)	30 (762)	25 1/2 (648)	72 9/16 (1,843)	26 5/8 (676)	25 (635)	4,717 (30,424)	35,060 (574,283)	325 (147) 375 (170)
KEWN680AO	68 (1,727)	30 (762)	25 1/2 (648)	64 9/16 (1,640)	26 5/8 (676)	25 (635)	4,303 (27,757)	31,196 (510,991)	300 (136) 345 (156)
KEWN600AO	60 (1,524)	30 (762)	25 1/2 (648)	56 9/16 (1,437)	26 5/8 (676)	25 (635)	3,890 (25,091)	27,332 (447,698)	275 (125) 315 (143)



KEWN840A0PBO

EPIQ Series Overhead Cabinets

Bulk Overhead Cabinets

	Overall			Inside			Square Inches (cm ²)	Cubic Inches (cm ³)	Weight Net/Ship, lbs (kg)
	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)			
KEHN840B0	84 (2,134)	30 (762)	21 7/8 (556)	80 1/4 (2,038)	28 3/16 (716)	13 5/8 (346)	2,263 (14,595)	30,888 (505,945)	320 (145) 368 (167)
KEHN760B0	76 (1,930)	30 (762)	21 7/8 (556)	72 1/4 (1,835)	28 3/16 (716)	13 5/8 (346)	2,037 (13,141)	27,811 (455,539)	300 (136) 348 (158)
KEHN680B0	68 (1,727)	30 (762)	21 7/8 (556)	64 1/4 (1,632)	28 3/16 (716)	13 5/8 (346)	1,812 (11,687)	24,733 (405,134)	275 (125) 318 (144)
KEHN600B0	60 (1,524)	30 (762)	21 7/8 (556)	56 1/4 (1,429)	28 3/16 (716)	13 5/8 (346)	1,587 (10,233)	21,656 (354,728)	260 (118) 298 (135)



KEHN840B0PBO

EPIQ Series Side Cabinets

KELN301B Side Locker Cabinets

Side Cabinets require attachment to an EPIQ roll cabinet or side cabinet.
CANNOT BE USED AS A STAND ALONE UNIT.

Cubic inches (cm ³)	Square inches (cm ²)	Load Capacity, lbs (kg)	Net Weight, lbs (kg)	
32,835 (537,837)	4,310 (27,800)	4,000 (1,814)	467 (212)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	6/1	30 (762)	30 (762)	74 (1,880)
Pull Out Bin	2	24 1/8 (613)	23 3/8 (594)	4 (102)
Pull Out Bin	4	24 1/8 (613)	26 5/8 (676)	4 (102)
Stationary Shelf	1	25 1/2 (648)	24 (610)	
Can Racks	2	17 7/8 (454)	3 3/16 (81)	4 (102)

KELN301BL - Left side locker
KELN301BR - Right side locker



KELN301BLPBO

KEBN301A Series Bulk End Cabinet

CANNOT BE USED AS A STAND ALONE UNIT.

Cubic inches (cm ³)	Square inches (cm ²)	Load Capacity, lbs (kg)	Weight Net/Ship, lbs (kg)	
17,260 (282,719)	2,461 (15,873)	4,000 (1,814)	390 (177) 440 (200)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	3/1	30 (762)	30 (762)	46 7/8 (1,191)
Pull Out Bin	1	24 1/8 (613)	23 3/8 (594)	4 (102)
Pull Out Bin	2	24 1/8 (613)	26 5/8 (676)	4 (102)
Stationary Shelf	1	25 1/2 (648)	24 (610)	
Can Racks	2	17 7/8 (454)	3 3/16 (81)	4 (102)

KEBN301AL - Left side bulk end cabinet
KEBN301AR - Right side bulk end cabinet



KEBN301ALPBO



WARNING



- Secure end cabinet to roll cabinet per instructions
- Do not open multiple drawers
- Read safety precautions on pages W1-W4.

MASTERS SERIES

Built to Exceed the Highest Standards. Yours.

With the Masters Series, every component is precision engineered to the most exacting standards—from ball bearing drawer slides to the strongest mar-resistant powder coat paint in the industry.

There Are No Short-Cuts.

Every facet of Masters Series tool storage unit construction is performed without compromise to ensure the strength and durability you need.

Breadth — The widest variety of configuration options, from single to the race-inspired Tool Utility Vehicle—with all of the add-on options you can imagine.

The Snap-on Difference.

Designed by Snap-on with you in mind. Snap-on has taken the time to precisely engineer each Masters Series box with features that help you work more productively.

PowerCab™ — Bolt on to any Masters Series roll cab for a secure way to power your cordless tools.

Extended Cab Feature — Extra-wide drawers for maximum organizational power.

Security — Round key interchangeable core and lifetime warranty on all components for peace of mind.

ISO-Ride® Casters — 6" casters for unmatched strength and smoothness when transporting heavy loads.



MASTERS SERIES

Quick Reference Chart



Roll Cabs	Specifications	KRL1032E	KRL1033C	KRL1023C	KRL7023C	KRL1022C	KRL7022C	KRL722B	KRL1056C	KRL756C
Capacity	Approx. Cubic Inches (cm ³)	46,425 (76,077)	44,761 (73,350)	44,260 (75,529)	37,812 (61,963)	33,735 (55,282)	32,160 (52,701)	23,251 (38,101)	22,356 (36,635)	15,506 (25,410)
	Approx. Square Inches (cm ²)	12,251 (79,038)	12,925 (83,387)	13,111 (84,587)	11,499 (74,187)	9,563 (61,697)	8,341 (53,813)	6,770 (43,677)	6,585 (42,484)	4,677 (30,174)
	Load Capacity, lbs (Kg)	6,800 (3,084)	6,800 (3,084)	6,800 (3,084)	6,800 (3,084)	6,800 (3,084)	6,800 (3,084)	6,800 (3,084)	3,600 (1,633)	3,600 (1,633)
Footprint	Width, inches (mm)	72 7/8 (1,851)	72 7/8 (1,851)	72 7/8 (000)	72 7/8 (1,851)	54 1/4 (1,378)	54 1/4 (1,378)	54 1/4 (1,378)	35 5/8 (892)	35 5/8 (892)
	Depth, inches (mm)	29 1/8 (740)	29 1/8 (740)	29 1/8 (740)	29 1/8 (740)	29 1/8 (740)	29 1/8 (740)	24 (610)	29 1/8 (740)	24 (610)
	Height, inches (mm)	45 7/8 (1,165)	45 7/8 (1,165)	45 7/8 (1,165)	41 3/8 (1,051)	45 7/8 (1,165)	41 3/8 (1,051)	39 7/8 (1,013)	44 1/4 (1,124)	39 7/8 (1,013)
Drawers	Drawer Banks	2	3	3	3	2	2	2	1	1
	Drawer Count	12	19	22	19	13	11	11	8	7
	Widest Drawer, inches (mm) [Qty]	69 (1,753) [2]	69 (1,753) [2]	50 (1,270) [2]	50 (1,270) [2]	50 (1,270) [2]	50 (1,270) [2]	50 (1,270) [2]	34 (864)	34 (864)
	Slides, lbs (Kg) (Ball Bearing)	227 (103)	227 (103)	227 (103)	227 (103)	227 (103)	227 (103)	261 (118)	227 (103)	261 (118)
	Double Slide (included)	Yes (5)	Yes (2)	Yes (2)	Yes (2)	Yes (2)	Yes (2)	Yes (2)	Yes (1)	Yes (1)
Extras	Work Surface	Nondirectional Rubber	Nondirectional Rubber	Nondirectional Rubber	Nondirectional Rubber	Nondirectional Rubber	Nondirectional Rubber	Nondirectional Rubber	Nondirectional Rubber	Nondirectional Rubber
	Writing Surface (Qty)	Yes (1)	Yes (1)	Yes (1)	Yes (1)	Yes (1)	Yes (1)	Yes (1)	No	No
	Third Caster Set Option	Yes	Yes	Yes	Yes	No	No	No	No	No
Weight	Net Weight, lbs (Kg)	892 (405)	892 (405)	892 (405)	785 (356)	632 (287)	562 (255)	489 (222)	396 (180)	306 (139)
	Shipping Weight, lbs (Kg)	1,006 (456)	1,006 (456)	1,006 (456)	893 (405)	720 (326)	645 (292)	548 (248)	450 (204)	361 (164)
Optional Add-ons Available	Top Chest	KRL1232	KRL1203B	KRL1203B	KRL1203B	KRL1201A	KRL1201A	KRL791A	KRL1251	KRL751
	Side Cab	KRL1011A KRL1015B	KRL1011A KRL1015B	KRL1011A KRL1015B	KRL7011A KRL7015B	KRL1011A KRL1015B	KRL7011A KRL7015B	KRL711A KRL715B	KRL1011A KRL1015B	KRL711A KRL715B
	Locker	KRL1012B KRL1018	KRL1012B KRL1018	KRL1012B KRL1018	KRL7012A KRL7018	KRL1012B KRL1018	KRL7012A KRL7018	KRL712B	KRL1012B KRL1018	KRL712B
	Workcenter/ Riser with Door	KRL7972A	KRL7972A	KRL7972A	KRL7972A	KRL7954A	KRL7954A	KRW7554A		
	Overhead	KRL7245A	KRL7245A	KRL7245A	KRL7245A	KRL5445A	KRL5445A	KRWL5435		
	Stainless Steel Top	KRSST7003B	KRSST7003B	KRSST7003B	KRSST7003B	KRSST1001B	KRSST1001B	KRSST761B	KRSST7001	KRSST756
	Hardwood Top	KRWT7003B	KRWT7003B	KRWT7003B	KRWT7003B	KRWT7002A	KRWT7002A	KRWT761B	KRWT7001A	KRWT756A
	Bedliner Top	KRBLT1023	KRBLT1023	KRBLT1023	KRBLT1023	KRBLT1022	KRBLT1022	KRBLT722		KRBLT756

Colors Available



All KRL Series units are available in 10 standard colors.
Add suffix to base stock number for special colors.



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

MASTERS SERIES

Roll Cabs



KRL1032E Series Roll Cab.

KRL1032EPBO



KRL1033C Series Roll Cab.

KRL1033CPBO

MASTERS Series Roll Cab Drawer Sizes

Width		Depth		Height		KRL1032E	KRL1033C
Inches	mm	Inches	mm	Inches	mm	Drawers	Drawers
14 5/8	371	26 15/16	684	1 11/16	43	3	6
14 5/8	371	26 15/16	684	4	102	1	3
14 5/8	371	26 15/16	684	6 3/16	157		1
14 5/8	371	26 15/16	684	10 5/8	270	1	1
30 1/2	775	26 15/16	684	1 11/16	43		3
30 1/2	775	26 15/16	684	4	102		2
30 1/2	775	26 15/16	684	6 3/16	157		1
49 1/8	1,248	26 15/16	684	1 9/16	40	1	
49 1/8	1,248	26 15/16	684	3 13/16	97	3	
49 1/8	1,248	26 15/16	684	6	152	1	
67 1/8	1,705	26 15/16	684	2 11/16	68	1	1
67 1/8	1,705	26 15/16	684	4 7/8	124	1	1
Total Drawer Count						12	19

Colors Available



All KRL Series units are available in 10 standard colors. Add suffix to base stock number for special colors.

KRL1023C Series Roll Cab.



KRL1023CPC

KRL7023C Series Roll Cab.



KRL7023CPBO

MASTERS Series Roll Cab Drawer Sizes

Width		Depth		Height		KRL1023C	KRL7023C
Inches	mm	Inches	mm	Inches	mm	Drawers	Drawers
14 5/8	371	26 15/16	684	1 11/16	43	8	8
14 5/8	371	26 15/16	684	4	102	4	2
14 5/8	371	26 15/16	684	6 3/16	157	1	1
14 5/8	371	26 15/16	684	10 5/8	270	1	1
30 1/2	775	26 15/16	684	1 11/16	43	3	3
30 1/2	775	26 15/16	684	4	102	2	1
30 1/2	775	26 15/16	684	6 3/16	157	1	1
49 1/8	1,248	26 15/16	684	2 11/16	68	1	1
49 1/8	1,248	26 15/16	684	4 7/8	124	1	1
Total Drawer Count						22	19



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

MASTERS SERIES

Roll Cabs



KRL1022C Series Roll Cab.

KRL1022CPES



KRL7022C Series Roll Cab.

KRL7022CPBO

MASTERS Series Roll Cab Drawer Sizes

Width		Depth		Height		KRL1022C	KRL7022C
Inches	mm	Inches	mm	Inches	mm	Drawers	Drawers
14 5/8	371	26 15/16	684	1 11/16	43	3	3
14 5/8	371	26 15/16	684	4	102	1	
14 5/8	371	26 15/16	684	10 5/8	270	1	1
30 1/2	775	26 15/16	684	1 11/16	43	3	3
30 1/2	775	26 15/16	684	4	102	2	1
30 1/2	775	26 15/16	684	6 3/16	157	1	1
49 1/8	1,248	26 15/16	684	2 11/16	68	1	1
49 1/8	1,248	26 15/16	684	4 7/8	124	1	1
Total Drawer Count						13	11

Colors Available



All KRL Series units are available in 10 standard colors.
Add suffix to base stock number for special colors.

KRL722B Series Roll Cab.



KRL722BPAW



KRL1056CPJK



KRL756CPC

KRL1056C Series Roll Cab.

KRL756C Series Roll Cab.

MASTERS Series Roll Cab Drawer Sizes

Width		Depth		Height		KRL1056C	KRL722B	KRL756C
Inches	mm	Inches	mm	Inches	mm	Drawers	Drawers	Drawers
14 5/8	371	21 7/8	557	1 11/16	43		3	
14 5/8	371	21 7/8	557	10 5/8	270		1	
30 1/2	775	21 7/8	557	1 11/16	43		3	3
30 1/2	775	21 7/8	557	4	102		1	3
30 1/2	775	21 7/8	557	6 3/16	157		1	1
49 1/8	1,248	21 7/8	557	2 11/16	68		1	
49 1/8	1,248	21 7/8	557	4 7/8	124		1	
30 1/2	775	26 15/16	684	1 11/16	43	3		
30 1/2	775	26 15/16	684	4	102	4		
30 1/2	775	26 15/16	684	6 3/16	157	1		
Total Drawer Count						8	11	7



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

MASTERS SERIES

Top Chests



KRL1232PM



KRL1203BPBO



KRL1201APES



KRL1251PJK

Colors Available



KRL1232 Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
33,358 (546,404)	10,533 (67,938)	590 (268)	668 (303)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	10	72 7/8 (1,851)	29 1/8 (740)	25 3/8 (645)
Drawers	2	14 5/8 (371)	26 15/16 (684)	1 11/16 (43)
	3	14 5/8 (371)	26 15/16 (684)	4 (102)
	2	49 1/8 (1,248)	26 15/16 (684)	1 11/16 (43)
	3	49 1/8 (1,248)	26 15/16 (684)	4 (102)
Top Compartment	Narrow	18 9/16 (471)	26 7/8 (683)	4 1/8 (105)
	Wide	53 7/8 (1,368)	26 7/8 (683)	4 1/8 (105)

KRL1203B Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
32,109 (525,945)	9,994 (64,461)	590 (268)	681 (309)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	15	72 7/8 (1,851)	29 1/8 (740)	25 3/8 (645)
Drawers	4	14 5/8 (371)	26 15/16 (684)	1 11/16 (43)
	6	14 5/8 (371)	26 15/16 (684)	4 (102)
	2	30 1/2 (775)	26 15/16 (684)	1 11/16 (43)
	3	30 1/2 (775)	26 15/16 (684)	4 (102)
Top Compartment	Narrow	18 9/16 (471)	26 7/8 (683)	4 1/8 (105)
	Wide	53 7/8 (1,368)	26 7/8 (683)	4 1/8 (105)

KRL1201A Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
24,456 (400,589)	7,526 (48,543)	424 (192)	505 (229)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	10	54 1/4 (1,375)	29 1/8 (740)	25 3/8 (645)
Drawers	2	14 5/8 (371)	26 15/16 (684)	1 11/16 (43)
	3	14 5/8 (371)	26 15/16 (684)	4 (102)
	2	30 1/2 (775)	26 15/16 (684)	1 11/16 (43)
	3	30 1/2 (775)	26 15/16 (684)	4 (102)
Top Compartment		53 7/8 (1,368)	26 7/8 (683)	4 1/8 (105)

KRL1251 Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
16,348 (267,780)	5,059 (32,631)	267 (121)	306 (140)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	5	35 5/8 (905)	29 1/8 (740)	25 3/8 (645)
Drawers	2	30 1/2 (775)	26 15/16 (684)	1 11/16 (43)
	3	30 1/2 (775)	26 15/16 (684)	4 (102)
Top Compartment		35 3/8 (899)	26 7/8 (683)	4 1/8 (105)

All KRL Series units are available in 10 standard colors. Add suffix to base stock number for special colors.

KRL791A Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
15,927 (260,884)	5,132 (33,101)	302 (137)	384 (174)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	8	54 1/4 (1,375)	24 (610)	21 (533)
Drawers	2	14 5/8 (371)	21 7/8 (557)	1 11/16 (43)
	2	14 5/8 (371)	21 7/8 (557)	4 (102)
	2	30 1/2 (775)	21 7/8 (557)	1 11/16 (43)
	2	30 1/2 (775)	21 7/8 (557)	4 (102)
Top Compartment		53 7/8 (1,368)	21 3/4 (552)	4 1/8 (105)



KRL791APAW

KRL751 Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
13,294 (217,756)	4,115 (26,542)	194 (88)	245 (111)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	4	35 5/8 (905)	24 (610)	21 (533)
Drawers	2	30 1/2 (775)	21 7/8 (557)	1 11/16 (43)
	2	30 1/2 (775)	21 7/8 (557)	4 (102)
Top Compartment		35 3/8 (899)	21 3/4 (552)	4 1/8 (105)



KRL751PC

Work Centers & Bulk Overhead Cabinets

Work Centers

- Factory assembled unit complete with door
- Work surface required

Specifications	KRL7972A	KRL7954A	KRW7554A
Cubic Inches (cm³)	32,156 (526,708)	23,768 (389,326)	16,945 (277,552)
Square Inches (cm²)	4,243 (27,365)	3,371 (21,743)	2,884 (18,605)
Width, inches (mm)	72 7/8 (1,851)	54 1/4 (1,378)	54 1/4 (1,378)
Height, inches (mm)	23 1/2 (597)	23 1/2 (597)	23 1/2 (597)
Depth, inches (mm)	27 1/2 (699)	27 1/2 (699)	21 (533)

KRL Workcenters includes (1) KAT12PV and (1) KAS12PV. All include 63A5000 clip kit.



KRL7972APJJ



KRW7554APCM

Bulk Overhead Cabinets

Specifications	KRL7245A	KRL5445A	KRWL5435
Cubic Inches (cm³)	26,814 (439,219)	19,629 (321,516)	15,076 (246,948)
Square Inches (cm²)	1,740 (11,224)	1,274 (8,216)	1,042 (6,719)
Width, inches (mm)	72 7/8 (1,851)	54 1/4 (1,378)	54 1/4 (1,378)
Height, inches (mm)	18 1/8 (460)	18 1/8 (460)	16 (406)
Depth, inches (mm)	27 1/2 (699)	27 1/2 (699)	21 (533)



KRL7245APKS



KRWL5435PBO



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

MASTERS SERIES

Drawer End Cabinets



KRL1221PC



KRL1011APJJ



KRL7011APCM



KRL711APAW

Colors Available



KRL1221 Series Top Cabinet

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
8,115 (132,924)	2,469 (15,925)	170 (77)	218 (99)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	5	19 3/4 (502)	29 1/8 (740)	25 3/8 (645)
Drawers	2	14 5/8 (371)	26 15/16 (684)	1 11/16 (43)
	3	14 5/8 (371)	26 15/16 (684)	4 (102)
Top Compartment		18 9/16 (471)	26 7/8 (683)	4 1/8 (105)

KRL1011A Series End Cabinet

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
10,735 (175,839)	3,152 (20,330)	267 (121)	295 (134)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	8	19 3/4 (502)	29 1/8 (740)	37 5/16 (948)
Drawers	3	14 5/8 (371)	26 15/16 (684)	1 11/16 (43)
	4	14 5/8 (371)	26 15/16 (684)	4 (102)
	1	14 5/8 (371)	26 15/16 (685)	6 3/16 (157)

KRL7011A Series End Cabinet

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
9,160 (150,041)	2,758 (17,789)	230 (104)	267 (121)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	7	19 3/4 (502)	29 1/8 (740)	32 15/16 (837)
Drawers	3	14 5/8 (371)	26 15/16 (684)	1 11/16 (43)
	3	14 5/8 (371)	26 15/16 (684)	4 (102)
	1	14 5/8 (371)	26 15/16 (684)	6 3/16 (157)

KRL711A Series End Cabinet

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
7,438 (121,834)	2,239 (14,442)	193 (88)	225 (102)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	7	19 3/4 (502)	24 (610)	32 15/16 (837)
Drawers	3	14 5/8 (371)	21 7/8 (557)	1 11/16 (43)
	3	14 5/8 (371)	21 7/8 (557)	4 (102)
	1	14 5/8 (371)	21 7/8 (557)	6 3/16 (157)

All KRL Series units are available in 10 standard colors. Add suffix to base stock number for special colors.

KRL1099 Series PowerCab End Cabinet

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
11,375 (186,323)	1,584 (10,217)	184 (83)	220 (100)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	1	19 3/4 (502)	29 1/8 (740)	37 5/16 (948)

- Includes 2 adjustable shelves
- Includes integrated power strip



Tools not included

KRL1099PBO

Bulk End Cabinets

KRL1015B Series Bulk End Cabinet

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
11,608 (190,139)	1,094 (7,056)	184 (83)	220 (100)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	2	19 3/4 (502)	29 1/8 (740)	37 5/16 (948)
Drawers	2	13 1/4 (337)	24 3/4 (629)	4 (102)
Shelves	1	16 1/4 (413)	25 3/8 (645)	Adjustable



KRL1015BPBO

KRL7015B Series Bulk End Cabinet

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
9,770 (160,033)	1,094 (7,056)	142 (64)	181 (82)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	2	19 3/4 (502)	29 1/8 (740)	32 15/16 (837)
Drawers	2	13 1/4 (337)	24 3/4 (629)	4 (102)
Shelves	1	16 1/4 (413)	25 3/8 (645)	Adjustable

KRL715B Series Bulk End Cabinet

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
7,984 (130,778)	894 (5,766)	122 (55)	159 (72)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	2	19 3/4 (502)	24 (610)	32 15/16 (837)
Drawers	2	13 1/4 (337)	20 1/8 (511)	4 (102)
Shelves	1	16 1/4 (413)	20 11/16 (525)	Adjustable



WARNING



- Secure end cabinet to roll cabinet per instructions
- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

MASTERS SERIES

Lockers



KRL1012BPBO

KRL1012B Series Locker

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
28,446 (465,945)	3,564 (22,988)	306 (139)	369 (167)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	4	24 1/16 (611)	29 1/8 (740)	62 3/8 (1,584)
Drawers	4	19 7/16 (495)	25 1/8 (638)	4 (102)
Shelves	3	24 1/16 (611)	22 3/4 (578)	Adjustable
Trays	2	17 7/8 (454)	3 1/8 (79)	4 (102)

KRL7012A Series Locker

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
26,085 (427,272)	3,564 (22,988)	285 (129)	345 (156)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	4	24 1/16 (611)	29 1/8 (740)	57 15/16 (1,472)
Drawers	4	19 1/2 (495)	25 1/8 (638)	4 (102)
Shelves	3	24 1/16 (611)	22 3/4 (578)	Adjustable
Trays	2	17 7/8 (454)	3 1/8 (79)	4 (102)

KRL712B Series Locker

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
20,568 (336,904)	2,831 (18,260)	238 (108)	297 (135)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	4	24 1/16 (611)	24 (610)	53 7/16 (1,357)
Drawers	4	19 7/16 (495)	20 (508)	4 (102)
Shelves	3	21 1/16 (535)	17 9/16 (446)	Adjustable
Trays	3	17 7/8 (454)	3 1/8 (79)	4 (102)

Vertical Storage Modules



1012AVSMPV

Vertical Storage Modules

- Provide exceptional visual upright storage
- Organize puller sets, pliers, screwdrivers, wrenches and more
- 5 easy operating slide out panels
- Not for use with Docker Locker® lockers

1012AVSMPV: Fits KRL1012B/KRL7012A series lockers and TUVs
712AVSMPV: Fits KRL712B series lockers

Colors Available



All KRL Series units are available in 10 standard colors.
 Add suffix to base stock number for special colors.

Docker Locker Lockers

Provides a quick way to secure tools and gives additional bulk storage. Includes a roll cart designed to fit locker (not available separately), KAT18PV can rack and one adjustable shelf. Mounts on either side of KRL1000 or KRL7000 Series roll cabs. Not designed for use with standard roll carts.

KRL1018 Series

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)
31,642 (518,296)	1,578 (10,178)	202 (92)	295 (134)
	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	24 1/16 (611)	29 1/8 (740)	62 3/8 (1,584)

KRL7018 Series

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)
29,139 (477,297)	1,578 (10,178)	190 (86)	287 (130)
	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	24 1/16 (611)	29 1/8 (740)	57 15/16 (1,472)

(U.S. Patent 6,719,384)



KRL1018PBO

KRL7018 Series similar in appearance.



WARNING



- Secure end cabinet to roll cabinet per instructions
- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

MASTERS SERIES

Tool Utility Vehicles (TUV)



KRLP1032A Series TUV

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Load Capacity, lbs (kg)	
113,947 (1,866,452)	19,426 (125,298)	1,975 (896)	6,000 (2,722)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	16	124 (3,150)	29 ⁷ / ₈ (759) 35 for tires (889)	70 (1,778)
Drawers in Roll Cab	3	14 ⁵ / ₈ (371)	26 ¹⁵ / ₁₆ (684)	1 ¹¹ / ₁₆ (43)
	1	14 ⁵ / ₈ (371)	26 ¹⁵ / ₁₆ (684)	4 (102)
	1	14 ⁵ / ₈ (371)	26 ¹⁵ / ₁₆ (684)	10 ⁵ / ₈ (270)
	1	49 ¹ / ₈ (1,248)	26 ¹⁵ / ₁₆ (684)	1 ⁹ / ₁₆ (40)
	3	49 ¹ / ₈ (1,248)	26 ¹⁵ / ₁₆ (684)	3 ¹³ / ₁₆ (97)
	1	49 ¹ / ₈ (1,248)	26 ¹⁵ / ₁₆ (684)	6 (152)
	1	67 ¹ / ₈ (1,705)	26 ¹⁵ / ₁₆ (684)	4 ⁷ / ₈ (124)
	1	67 ¹ / ₈ (1,705)	26 ¹⁵ / ₁₆ (684)	2 ¹¹ / ₁₆ (68)
Locker Drawers	4	19 ⁷ / ₁₆ (494)	25 ¹ / ₈ (638)	4 (102)
Locker Shelves	4	21 ¹ / ₁₆ (535)	22 ³ / ₄ (578)	Adjustable
Can Tray	1	17 ⁷ / ₈ (454)	3 ¹ / ₈ (79)	4 (102)
Work Center	Dimensions	71 ³ / ₈ (1,813)	23 ³ / ₄ (603)	23 (584)

KRLT1032A Series TUV

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Load Capacity, lbs (kg)		
120,528 (1,974,249)	26,709 (172,273)	2,350 (1,066)	6,000 (2,722)		
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)	
Specifications	26	124 (3,150)	29 ⁷ / ₈ (759) 35 for tires (889)	70 (1,778)	
Drawers in Roll Cab/Top Chest	5	14 ⁵ / ₈ (371)	26 ¹⁵ / ₁₆ (684)	1 ¹¹ / ₁₆ (43)	
	4	14 ⁵ / ₈ (371)	26 ¹⁵ / ₁₆ (684)	4 (102)	
	1	14 ⁵ / ₈ (371)	26 ¹⁵ / ₁₆ (684)	10 ⁵ / ₈ (270)	
	3	49 ¹ / ₈ (1,248)	26 ¹⁵ / ₁₆ (684)	1 ⁹ / ₁₆ (40)	
	3	49 ¹ / ₈ (1,248)	26 ¹⁵ / ₁₆ (684)	3 ¹³ / ₁₆ (97)	
	1	49 ¹ / ₈ (1,248)	26 ¹⁵ / ₁₆ (684)	6 (152)	
	1	67 ¹ / ₈ (1,705)	26 ¹⁵ / ₁₆ (684)	4 ⁷ / ₈ (124)	
	1	67 ¹ / ₈ (1,705)	26 ¹⁵ / ₁₆ (684)	2 ¹¹ / ₁₆ (68)	
	Locker Drawers	4	19 ⁷ / ₁₆ (494)	25 ¹ / ₈ (638)	4 (102)
	Locker Shelves	4	21 ¹ / ₁₆ (535)	22 ³ / ₄ (578)	Adjustable
Can Tray	1	17 ⁷ / ₈ (454)	3 ¹ / ₈ (79)	4 (102)	
Top Chest Compartment	Narrow	18 ⁹ / ₁₆ (471)	26 ⁷ / ₈ (683)	4 ¹ / ₈ (105)	
	Wide	53 ⁷ / ₈ (1,348)	26 ⁷ / ₈ (683)	4 ¹ / ₈ (105)	

Optional Add-Ons Available

Top Chest	
Side Cab	
End Cab	
Middle Drawer Section	
Locker	2 Included
Workstation Riser	KRL7972A Included
Hardwood Top	KRWT7003A option
Stainless Top	Included KRSST7003B
Protective Cover (roll cab)	KACP1023 option
Third Caster Set Option	
Verticle Storage Option	
Overhead	KRL7245A option

Includes (1) KAS12PV, (1) KASR12PV and (1) writing surface

Optional Add-Ons Available

Top Chest	KRL1232 included
Side Cab	
End Cab	
Middle Drawer Section	
Locker	2 Included
Workstation Riser	
Hardwood Top	
Stainless Top	
Protective Cover (roll cab)	KACP1023 option
Third Caster Set Option	
Verticle Storage Option	
Overhead	

Includes (1) KASR12PV and (1) writing surface

Colors Available



All KRL Series units are available in 10 standard colors. Add suffix to base stock number for special colors.



KRLP1023A Series TUV

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Load Capacity, lbs (kg)	
111,477 (1,825,993)	20,277 (130,787)	1,975 (896)	6,000 (2,722)	
Specifications	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
	26	124 (3,150)	29 7/8 (759) 35 for tires (889)	70 (1,778)
Drawers in Roll Cab	8	14 5/8 (371)	26 15/16 (684)	1 11/16 (43)
	4	14 5/8 (371)	26 15/16 (684)	4 (102)
	1	14 5/8 (371)	26 15/16 (684)	6 3/16 (157)
	1	14 5/8 (371)	26 15/16 (684)	10 5/8 (270)
	3	30 1/2 (775)	26 15/16 (684)	1 11/16 (43)
	2	30 1/2 (775)	26 15/16 (684)	4 (102)
	1	30 1/2 (775)	26 15/16 (684)	6 3/16 (157)
	1	49 1/8 (1,248)	26 15/16 (684)	4 7/8 (124)
	1	49 1/8 (1,248)	26 15/16 (684)	2 11/16 (68)
Locker Drawers	4	19 7/16 (494)	25 1/8 (638)	4 (102)
Locker Shelves	4	21 1/16 (535)	22 3/4 (578)	Adjustable
Can Tray	1	17 7/8 (454)	3 1/8 (79)	4 (102)
Work Center	Dimensions	71 3/8 (1,813)	23 3/4 (603)	23 (584)

Includes (1) KAS12PV shelf, (1) KASR12PV screwdriver rack and (1) writing surface

Optional Add-Ons Available

Top Chest	
Side Cab	
End Cab	
Middle Drawer Section	
Locker	2 Included
Workstation Riser	KRL7972A Included
Hardwood Top	KRWT7003A option
Stainless Top	Included KRSST7003B
Protective Cover (roll cab)	KACP1023 option
Third Caster Set Option	
Verticle Storage Option	
Overhead	KRL7245A option

KRLT1023A Series TUV

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Load Capacity, lbs (kg)	
117,472 (1,924,191)	27,018 (174,266)	2,350 (1,066)	6,000 (2,722)	
Specifications	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
	41	124 (3,150)	29 7/8 (759) 35 for tires (889)	70 (1,778)
Drawers in Roll Cab / Top Chest	12	14 5/8 (371)	26 15/16 (684)	1 11/16 (43)
	10	14 5/8 (371)	26 15/16 (684)	4 (102)
	1	14 5/8 (371)	26 15/16 (684)	6 3/16 (157)
	1	14 5/8 (371)	26 15/16 (684)	10 5/8 (270)
	5	30 1/2 (775)	26 15/16 (684)	1 11/16 (43)
	5	30 1/2 (775)	26 15/16 (684)	4 (102)
	1	30 1/2 (775)	26 15/16 (684)	6 3/16 (157)
	1	49 1/8 (1,248)	26 15/16 (684)	4 7/8 (124)
	1	49 1/8 (1,248)	26 15/16 (684)	2 11/16 (68)
Locker Drawers	4	19 7/16 (494)	25 1/8 (638)	4 (102)
Locker Shelves	4	21 1/16 (535)	22 3/4 (578)	Adjustable
Can Tray	1	17 7/8 (454)	3 1/8 (79)	4 (102)
Top Chest Compartment	Narrow	18 9/16 (471)	26 7/8 (683)	4 1/8 (105)
	Wide	53 7/8 (1,368)	26 7/8 (683)	4 1/8 (105)

Includes (1) KASR12PV screwdriver rack and (1) writing surface

Optional Add-Ons Available

Top Chest	KRL1203B Included
Side Cab	
End Cab	
Middle Drawer Section	
Locker	2 Included
Workstation Riser	
Hardwood Top	
Stainless Top	
Protective Cover (roll cab)	KACP1023 option
Third Caster Set Option	
Verticle Storage Option	
Overhead	



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

MASTERS SERIES

Tool Utility Vehicles (TUV)



KRLP1022A Series TUV

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Load Capacity, lbs (kg)	
98,413 (1,612,005)	16,868 (108,799)	1,582 (718)	6,000 (2,722)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	17	106 (2,692)	29 7/8 (759) 35 for tires (889)	70 (1,778)
Drawers in Roll Cab	3	14 5/8 (371)	26 15/16 (684)	1 11/16 (43)
	1	14 5/8 (371)	26 15/16 (684)	4 (102)
	1	14 5/8 (371)	26 15/16 (684)	10 5/8 (270)
	3	30 1/2 (775)	26 15/16 (684)	1 11/16 (43)
	2	30 1/2 (775)	26 15/16 (684)	4 (102)
	1	30 1/2 (775)	26 15/16 (684)	6 3/16 (157)
	1	49 1/8 (1,248)	26 15/16 (684)	4 7/8 (124)
	1	49 1/8 (1,248)	26 15/16 (684)	2 11/16 (68)
Locker Drawers	4	19 7/16 (494)	25 1/8 (638)	4 (102)
Locker Shelves	4	21 1/16 (535)	22 3/4 (578)	Adjustable
Can Tray	1	17 7/8 (454)	3 1/8 (79)	4 (102)
Work Center	Dimensions	52 3/4 (1,340)	23 3/4 (603)	23 (584)

KRLT1022A Series TUV

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Load Capacity, lbs (kg)		
99,267 (1,626,688)	21,036 (135,715)	1,786 (810)	6,000 (2,777)		
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)	
Specifications	27	106 (2,692)	29 7/8 (759) 35 for tires (889)	70 (1,778)	
Drawers in Roll Cab/Top Chest	5	14 5/8 (371)	26 15/16 (684)	1 11/16 (43)	
	4	14 5/8 (371)	26 15/16 (684)	4 (102)	
	1	14 5/8 (371)	26 15/16 (684)	10 5/8 (270)	
	5	30 1/2 (775)	26 15/16 (684)	1 11/16 (43)	
	5	30 1/2 (775)	26 15/16 (684)	4 (102)	
	1	30 1/2 (775)	26 15/16 (684)	6 3/16 (157)	
	1	49 1/8 (1,248)	26 15/16 (684)	4 7/8 (124)	
	1	49 1/8 (1,248)	26 15/16 (684)	2 11/16 (68)	
	Locker Drawers	4	19 7/16 (494)	25 1/8 (638)	4 (102)
	Locker Shelves	4	21 1/16 (535)	22 3/4 (578)	Adjustable
Can Tray	1	17 7/8 (454)	3 1/8 (79)	4 (102)	
Top Chest Compartment	Narrow	18 9/16 (471)	26 7/8 (683)	4 1/8 (105)	
	Wide	53 7/8 (1,368)	26 7/8 (683)	4 1/8 (105)	

Optional Add-Ons Available

Top Chest	
Side Cab	
End Cab	
Middle Drawer Section	
Locker	2 Included
Workstation Riser	KRL7954A Included
Hardwood Top	KRWT7002A option
Stainless Top	Included KRSST1001B
Protective Cover (roll cab)	KACP1022 option
Third Caster Set Option	
Verticle Storage Option	
Overhead	KRL5445A option

Includes (1) KAS12PV shelf, (1) 7065JL719 writing surface and (1) KASR12PV screwdriver rack

Optional Add-Ons Available

Top Chest	KRL1201A Included
Side Cab	
End Cab	
Middle Drawer Section	
Locker	2 Included
Workstation Riser	
Hardwood Top	
Stainless Top	
Protective Cover (roll cab)	KACP1022
Third Caster Set Option	KACP1022 option
Verticle Storage Option	
Overhead	

Includes (1) KAS12PV shelf and (1) writing surface

Colors Available



All KRL Series units are available in 10 standard colors. Add suffix to base stock number for special colors.



KATUVGRILL Stainless Steel Front Grill.

- Fits all Snap-on® TUV units

KATUVFENDER Stainless Steel Fender.

- Fits all *Snap-on* TUV units

KATUVBUMPER Stainless Steel Back Bumper.

- Fits all *Snap-on* TUV units

KP1023JS Jack Stand.

- Fits all *Snap-on* TUV units

KATUVBAR54 Stainless Steel Side Bar.

- 54" step bar fits KRLP1022/KRLT1022 and KRLR1022 series of TUV units

KATUVBAR72 Stainless Steel Side Bar.

- 72" step bar fits KRLP1023/KRLT1023 and KRLP1032/KRLT1032 series of TUV units

KATUVBRAKE54 Hydraulic Brake Kit.

- Fits KRLP1022/KRLT1022 and KRLR1022 series of TUV units

KATUVBRAKE72 Hydraulic Brake Kit.

- Fits KRLP1023/KRLT1023 and KRLP1032/KRLT1032 series of TUV units



KP1023JS

KRLP/KRLT Series Body Guards

Stock No.	Description	Application
KABGBB54	Back bottom body guard for roll cab (54" TUV)	KRLP1022/KRLT1022
KABGBB72	Back bottom body guard for roll cab (72" TUV)	KRLP1023/KRLT1023, KRLP1032/KRLT1032
KABGFB17	Left/Right front bottom body guard for roll cab (17 9/16")	KRLP1022/KRLT1022, KRLP1023/KRLT1023, KRLP1032/KRLT1032
KABGFB33	Center front bottom body guard for roll cab (33 1/2")	KRLP1022/KRLT1022, KRLP1023/KRLT1023
KABGFB52	Front bottom body guard for roll cab (52 1/4")	KRLP1032/KRLT1032 - All units work on "A" & non-A versions
KABGFT17	Left/right front top body guard for roll cab (17 9/16")	KRLP1023/KRLT1023, KRLP1032/KRLT1032
KABGFT51	Front top body guard for roll cab (52 1/8")	KRLP1022/KRLT1022
KABGFT52A	Front top body guard for roll cab (52 1/8")	KRLP1023/KRLT1023, KRLP1032/KRLT1032
KABGFF17	Front face body guard for tool chest (5 1/16" x 17 3/16")	KRLT1023/KRLT1032
KABGFF51	Front face body guard for tool chest (5 1/16" x 51")	KRLT1022/KRLT1023/KRLT1032
KABGFF52	Front face body guard for workcenter (2 7/16" x 52 11/16")	KRLP1022
KABGFF71	Front face body guard for workcenter (2 7/16" x 71 1/4")	KRLP1023/KRLP1032
7516X70R	Locker Door Inlay (3 7/8" x 46 7/8")	KRLP1022/KRLT1022, KRLP1023/KRLT1023, KRLP1032/KRLT1032

KRLP/KRLT Series Diamond Plate Top Mats

Description	Silver Stock No.	Black Stock No.
Diamond plate top mat set for KRLP1022 Series TUV units	KPP1022DP	KPP1022RP
Diamond plate top mat set for KRLP1023/KRLP1032 Series TUV units	KPP1023DP	KPP1023RP
Diamond plate top mat set for locker tops on KRLT1022/ KRLT1023/KRLT1032 Series TUV units	KPT1023DP	KPT1023RP

KRLP/KRLT Series Covers

Cover Description	Red Stock No.	Black Stock No.	Royal Blue Stock No.
Cover for KRLP1022/KRLT1022 TUV units	KACP1022	KACP1022PC	KACP1022PCM
Cover for KRLP1023/KRLT1023 TUV units	KACP1023	KACP1023PC	KACP1023PCM



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

CLASSIC SERIES

Classic for a Reason.

Tool storage with a future. Built on a solid past.

More Options. More Opportunities.

Snap-on® Classic Series delivers more than just the basics. Add lockers, end cabs, a workstation riser and overhead storage to create what fits your needs.

Customizable — Choose your color from seven standard options, your work surface, your lighting and your protection package. Add skins and other options to make your piece unique.

Affordable — Solid value for your investment. Classic tool storage can grow with you with the addition of top boxes and other storage add-ons. Value is engineered and built into every Classic Series Snap-on makes.

Lock-n-Roll® Drawers — Retention system keeps drawers in place for safety and security.

Reinforced corner gussets — For strength and durability.

Double wall construction — Full-height inner wall is welded in place to ensure durable, consistent performance.





Roll Cabs		KRA2496	KRA2432	KRA2418	KRA2411	KRA2422	KRA2407
Capacity	Approx. Cubic Inches (cm ³)	33,000 (540,773)	33,000 (540,773)	33,000 (540,773)	25,000 (409,677)	25,000 (409,677)	16,000 (262,193)
	Approx. Square Inches (cm ²)	8,000 (51,613)	8,500 (54,839)	8,500 (54,839)	6,300 (40,645)	6,300 (40,645)	4,700 (30,322)
	Load Capacity (kg)	2,400 (1,089)	2,400 (1,089)	2,400 (1,089)	2,400 (1,089)	2,400 (1,089)	2,400 (1,089)
Footprint	Width, inches (mm)	73 (1,854)	73 (1,854)	73 (1,854)	55 (1,397)	55 (1,397)	36 (914)
	Depth, inches (mm)	24 (610)	24 (610)	24 (610)	24 (610)	24 (610)	24 (610)
	Height, inches (mm)	39 (991)	39 (991)	39 (991)	39 (991)	39 (991)	39 (991)
Drawers	Drawer Banks	2	2	3	2	2	1
	Drawer Count	12	12	18	11	10	7
	Widest Drawer, inches (mm)	50 (1,270)	50 (1,270)	50 (1,270)	50 (1,270)	50 (1,270)	32 (813)
	Slides, lbs. (kg) (ball bearing)	120 (54)	120 (54)	120 (54)	120 (54)	120 (54)	120 (54)
	Double Slides	Yes (2 drawers)	Yes (5 drawers)	Yes (2 drawers)	Yes (2 drawers)	Yes (2 drawers)	No
Extras	Top Mat	Unidirectional Rubber	Unidirectional Rubber	Unidirectional Rubber	Unidirectional Rubber	Unidirectional Rubber	Unidirectional Rubber
	Writing Surface	Optional	Optional	Optional	Optional	Optional	Optional
Weight	Net Weight, lbs (kg)	555 (252)	547 (248)	547 (248)	412 (187)	412 (187)	320 (145)
	Shipping Weight, lbs (kg)	637 (289)	643 (292)	643 (292)	480 (218)	480 (218)	356 (162)
Optional Add-ons Available	Top Chest	KRA2412/KRA2415	KRA2412/KRA2415	KRA2412/KRA2415	KRA2408/KRA2410	KRA2408/KRA2410	KRA2404/KRA2405
	Side Cab	KRA2406	KRA2406	KRA2406	KRA2406	KRA2406	KRA2406
	Locker	KRA2403	KRA2403	KRA2403	KRA2403	KRA2403	KRA2403
	Workstation Riser w/Door	KRW7572A	KRW7572A	KRW7572A	KRW7554A	KRW7554A	No
	Overhead	KRWL3635 (2)	KRWL3635 (2)	KRWL3635 (2)	KRWL5435	KRWL5435	No
	Hardwood Top	KRWT2418	KRWT2418	KRWT2418	KRWT2411	KRWT2411	KRWT2407
	Stainless Top	KRSST2418	KRSST2418	KRSST2418	KRSST2411	KRSST2411	KRSST2407
	Armor Edge Top	KRBLT2418	KRBLT2418	KRBLT2418	KRBLT2411	KRBLT2411	No
	Third Caster Set Option	No	No	No	No	No	No

CUSTOM SKINS



Talk to your Snap-on representative about uniquely wrapped tool storage that reflects your personal style.

(Skins shown may not be available for purchase)



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

CLASSIC SERIES

Roll Cabs



KRA2496PBO



KRA2432PC
(Optional Stainless Steel Top Shown)

CLASSIC Series Roll Cab Drawer Sizes

Specifications	Width		Depth		Height		KRA2496	KRA2432
	Inches	mm	Inches	mm	Inches	mm	Drawers	Drawers
2" Narrow	14 5/8	371	21 7/8	557	1 11/16	43	1	3
4" Narrow	14 5/8	371	21 7/8	557	4	102	3	2
6" Narrow	14 5/8	371	21 7/8	557	6 3/16	157	1	
10" Narrow	14 5/8	371	21 7/8	557	10 9/16	270		1
2" Wide	30 1/2	775	21 7/8	557	1 11/16	43	3	
4" Wide	30 1/2	775	21 7/8	557	4	102	2	
6" Wide	30 1/2	775	21 7/8	557	6 3/16	157	1	
2" Extra Wide	49 1/8	1,248	21 7/8	557	1 9/16	40		1
4" Extra Wide	49 1/8	1,248	21 7/8	557	4	102	1	4
6" Extra Wide	49 1/8	1,248	21 7/8	557	6 3/16	157		1
Total Drawer Count							12	12

Colors Available



All CLASSIC Series units are available in 8 standard colors.
Add suffix to base stock number for special colors.



KRA2422PJJ



KRA2418PBO



KRA2407PBO



KRA2411PCM

CLASSIC Series Roll Cab Drawer Sizes

Specifications	Width		Depth		Height		KRA2422	KRA2418	KRA2411	KRA2407
	Inches	mm	Inches	mm	Inches	mm	Drawers	Drawers	Drawers	Drawers
2" Narrow	14 5/8	371	21 7/8	557	1 3/4	43	1	4	1	
4" Narrow	14 5/8	371	21 7/8	557	4	102	1	5	2	
6" Narrow	14 5/8	371	21 7/8	557	6 3/16	157		1		
10" Narrow	14 5/8	371	21 7/8	557	10 9/16	270	1	1	1	
2" Wide	30 1/2	775	21 7/8	557	1 3/4	43	3	3	3	3
4" Wide	30 1/2	775	21 7/8	557	4	102	1	2	2	3
6" Wide	30 1/2	775	21 7/8	557	6 3/16	157	1	1	1	1
4" Extra Wide	49 1/8	1,248	21 7/8	557	3 13/16	97		1	1	
5" Extra Wide	49 1/8	1,248	21 7/8	557	4 7/8	124	1			
3" Extra Wide	49 1/8	1,248	21 7/8	557	2 11/16	68	1			
Total Drawer Count							10	18	11	7

Top Chests



KRA2415PBO

KRA2415 Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
28,348 (464,540)	8,174 (52,735)	496 (225)	555 (252)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	15	73 3/8 (1,864)	24 (609)	28 5/8 (726)
Drawers 2" Narrow	4	14 5/8 (371)	21 7/8 (557)	1 3/4 (40)
4" Narrow	6	14 5/8 (371)	21 7/8 (557)	4 (102)
2" Wide	2	30 9/16 (775)	21 7/8 (557)	1 11/16 (43)
4" Wide	3	30 9/16 (775)	21 7/8 (557)	4 (102)
Top Compartment		72 (1,829)	23 3/4 (603)	5 (127)



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

CLASSIC SERIES

Roll Cabs



KRA2412PCM
(Top Mat Optional)



KRA2410PBO



KRA2408PCM
(Top Mat Optional)



KRA2405PC

All CLASSIC Series units are available in 8 standard colors.
Add suffix to base stock number for special colors.

KRA2412 Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
17,753 (290,920)	5,229 (33,735)	405 (184)	455 (206)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	12	73 3/8 (1,864)	24 (609)	22 (559)
Drawers	2	14 5/8 (371)	21 7/8 (556)	1 3/4 (43)
	6	14 5/8 (371)	21 7/8 (556)	4 (102)
	1	30 1/2 (775)	21 7/8 (556)	1 3/4 (43)
	3	30 1/2 (775)	21 7/8 (556)	4 (102)

KRA2410 Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)		
21,283 (348,766)	6,137 (39,593)	361 (163)	417 (189)		
	Drawer Description	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications		10	55 (1,397)	24 (607)	28 5/8 (726)
Drawers	2" Narrow	2	14 5/8 (371)	21 7/8 (557)	1 11/16 (43)
	4" Narrow	3	14 5/8 (371)	21 7/8 (557)	4 (102)
	2" Wide	2	30 1/2 (775)	21 7/8 (557)	1 11/16 (43)
	4" Wide	3	30 1/2 (775)	21 7/8 (557)	4 (102)
Top Compartment			54 (1,372)	23 3/4 (603)	5 (125)

KRA2408 Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
13,531 (221,700)	3,951 (25,490)	310 (140)	361 (164)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	8	55 (1,397)	24.0 (609)	21 (533)
Drawers	1	14 5/8 (371)	21 7/8 (557)	1 11/16 (43)
	3	14 5/8 (371)	21 7/8 (557)	4 (102)
	1	30 1/2 (775)	21 7/8 (557)	1 11/16 (43)
	3	30 1/2 (775)	21 7/8 (557)	4 (102)

KRA2405 Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)		
14,333 (234,875)	4,139 (26,703)	222 (101)	281 (127)		
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)	
Specifications	5	36 3/8 (924)	24 (609)	28 (711)	
Drawers	2	30 1/2 (775)	21 7/8 (557)	1 11/16 (43)	
	3	30 1/2 (775)	21 7/8 (557)	4 (102)	
Top Compartment			35 3/4 (907)	23 3/4 (603)	5 (125)

Colors Available



KRA2404 Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
9,086 (148,893)	2,672 (17,238)	200 (91)	254 (115)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	4	36 ³ / ₈ (924)	24 (609)	21 (533)
Drawers	1	30 ¹ / ₂ (775)	21 ⁷ / ₈ (557)	1 ¹¹ / ₁₆ (43)
	3	30 ¹ / ₂ (775)	21 ⁷ / ₈ (557)	4 (102)



KRA2404PBO
(Top Mat Optional)

Workstation Risers

Workstation Risers

- Factory assembled unit complete with door
- Work surface required (See page 381)

Stock Number	KRA2472 Riser	KRA2454 Riser
Cubic inches (cm³)	22,500 (368,708)	16,945 (277,678)
Square inches (cm²)	3,625 (23,387)	2,884 (18,606)
Width, inches (mm)	73 (1,854)	54 ³ / ₄ (1,391)
Height, inches (mm)	27 (686)	27 (686)
Depth, inches (mm)	24 (610)	24 (610)



KRA2454PCM

Lockers

KRA2403 Series Lockers

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
17,035 (279,154)	2,509 (16,188)	375 (170)	418 (189)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	3	24 ³ / ₄ (635)	24 (610)	61 (1,549) w/casters 54 (1,372) w/out casters
Drawers	3	20 ³ / ₈ (518)	19 ¹ / ₂ (495)	3 ¹³ / ₁₆ (97)
Shelves/Trays	3	20 ³ / ₈ (518)	21 ¹ / ₂ (546)	9 ¹ / ₂ (241)

Ball slide capacity 125 lbs per drawer.



KRA2403PJK

KRA2406 Series End Cabinets

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
7,574 (124,115)	1,918 (12,374)	220 (99)	258 (117)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	6	20 ¹ / ₄ (514)	24 (609)	39 ¹ / ₄ (997)
Drawers	3	14 ⁵ / ₈ (371)	21 ⁷ / ₈ (557)	1 ¹¹ / ₁₆ (43)
	2	14 ⁵ / ₈ (371)	21 ⁷ / ₈ (557)	4 (102)
	1	14 ⁵ / ₈ (371)	21 ⁷ / ₈ (557)	10 ⁹ / ₁₆ (270)

Ball slide capacity 125 lbs per drawer.



KRA2406PJK

End Cabinets



WARNING



- Secure end cabinet to roll cabinet per instructions
- Do not open multiple drawers
- Read safety precautions on pages W1-W4.

HERITAGE SERIES

Snap-on Doesn't Cut Corners. It Reinforces Them.

The Snap-on® Heritage Series delivers exceptional quality at a superior value. For technicians who are just starting out, the Heritage line offers a surprising array of high-end construction elements, allowing you to own a professional quality cab with proven design. Add components at your own pace and build for the future.



Every Detail Adds Up to Value.

Lock-n-Roll® Drawers — Premium-quality drawers that won't drift open.

Double wall construction — Ensures an outer dent will not affect drawer performance.

Gas-assisted lifts on top chests — Quality hydraulic lifts for safety and performance.

Flexible storage options — Interchangeable drawers adjust to the way you work.

Medium-duty casters — Impact absorbing wheels with smooth performance.

Four color options — Add a range of optional accessories to personalize your tool storage.





Roll Cabs	Specifications	KRA5318F	KRA5311F	KRA4813F	KRA4107F	KRA4008F	KRA2007F	KRA2005F
Capacity	Approx. Cubic Inches (cm ³)	19,200 (314,632)	20,000 (327,741)	14,000 (229,419)	15,000 (245,806)	10,000 (163,871)	10,000 (163,871)	10,000 (163,871)
	Approx. Square Inches (cm ²)	5,000 (32,258)	5,000 (32,258)	4,000 (25,806)	4,250 (27,419)	3,000 (19,355)	2,800 (18,064)	2,400 (15,484)
	Load Capacity, lbs (Kg)	2,400 (1,089)	2,400 (1,089)	2,400 (1,089)	2,400 (1,089)	1,300 (590)	1,100 (499)	1,100 (499)
Footprint	Width, inches (mm)	53 (1,397)	53 (1,397)	40 (1,016)	40 (1,016)	26 (660)	26 (660)	26 (660)
	Depth, inches (mm)	20 (508)	20 (508)	20 (508)	20 (508)	20 (508)	20 (508)	20 (508)
	Height, inches (mm)	38 1/2 (978)	38 1/2 (978)	38 1/2 (978)	38 1/2 (978)	37 (940)	37 (940)	37 (940)
Drawers	Drawer Banks	3	2	2	1	1	1	1
	Drawer Count	18	11	13	7	8	7	5
	Widest Drawer, inches (mm)	35 (880)	48 (1,219)	35 (880)	35 (880)	23 (584)	23 (584)	23 (584)
	Slides, lbs (Kg) (ball bearing)	120 (54)	120 (54)	120 (54)	120 (54)	120 (54)	100 (45)	100 (45)
	Double Slides	Yes (1 drawer)	Yes (1 drawer)	Yes (1 drawer)	Yes (1 drawer)	Optional	Optional	Optional
Extras	Top Mat	Unidirectional Rubber	Unidirectional Rubber	Unidirectional Rubber	Unidirectional Rubber	Unidirectional Rubber	Unidirectional Rubber	Unidirectional Rubber
Weight	Net Weight, lbs (Kg)	371 (168)	349 (158)	297 (135)	275 (125)	183 (83)	170 (77)	162 (73)
	Shipping Weight, lbs (Kg)	454 (206)	400 (181)	327 (148)	305 (138)	252 (114)	239 (108)	231 (105)
Optional Add-ons Available	Top Chest	KRA5308F	KRA5308F	KRA4114F, KRA4810F	KRA4114F, KRA4810F	KRA4014F	KRA2055, KRA4014F	KRA2055, KRA4014F
	Side Cab	KRA4820F, KRA4830F	KRA4820F, KRA4830F	KRA4820F, KRA4830F	KRA4820F, KRA4830F			
	Locker	KRA5012F	KRA5012F	KRA5012F	KRA5012F			
	Middle Drawer Section			KRA4860F	KRA4860F	KRA2063	KRA2063	KRA2063
	Hardwood Top	KRWT5300	KRWT5300	KRWT40F	KRWT40F	KRWT26F	KRWT26F	KRWT26F
	Stainless Top	KRSST5300	KRSST5300	KRSST40F	KRSST40F			

Customize your Heritage Series tool storage with options like real carbon fiber drawer guards and wrench wheel cover sets.



Custom color roll cab KRA5311FPOT shown with optional:
Carbon fiber drawer guards KACF5311
Gloss black corner guards KACGB53RC
Gloss black drawer front KADFB50X6 and
Wheel covers KAWCR-6

Custom color roll cab KRA5311FPFT shown with optional:
Red corner guards KACG53RCRD
Red drawer front KADF50X6RD
Red carbon fiber drawer guards KACF5311RD and
Caster bolt covers KACAP6RD



WARNING



- Secure end cab to roll cab per instructions
- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

HERITAGE SERIES

Roll Cabs



KRA5318FPBO



KRA5311FPC



KRA4813FPCM

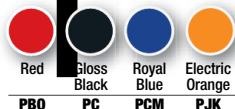


KRA4107FPJK

HERITAGE Series Roll Cab Drawer Sizes

Specifications	Width		Depth		Height		KRA5318F	KRA5311F	KRA4813F	KRA4107F
	Inches	mm	Inches	mm	Inches	mm	Drawers	Drawers	Drawers	Drawers
2" Narrow	11 3/16	285	17 1/2	445	1 5/8	41	2	3	4	
4" Narrow	11 3/16	285	17 1/2	445	3 5/8	92	7	1	1	
8" Narrow	11 3/16	285	17 1/2	445	7 5/8	193	1			
12" Narrow	11 3/16	285	17 1/2	445	11 5/8	295	1	1	1	
2" Wide	21 7/16	544	17 1/2	445	1 5/8	41	2		2	
2" Extra Wide	34 3/4	881	17 1/2	445	1 5/8	41		1		2
4" Wide	21 7/16	544	17 1/2	445	3 5/8	92	3		3	
4" Extra Wide	34 3/4	881	17 1/2	445	3 5/8	92	1	3	1	4
8" Wide	21 7/16	544	17 1/2	445	7 5/8	193	1		1	
8" Extra Wide	34 3/4	881	17 1/2	445	7 5/8	193		1		1
6" Super Wide	47 3/4	1,214	17 1/2	445	5 9/16	141		1		
Total Drawer Count							18	11	13	7

Colors Available



All KRA5000 and KRA4000 Series units are available in 4 standard colors.
Add suffix to base stock number for special colors.



KRA4008FPC



KRA2007FPBO

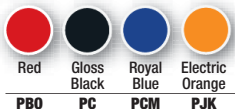


KRA2005FPCM

HERITAGE Series Roll Cab Drawer Sizes

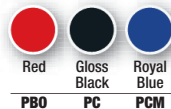
Specifications	Width		Depth		Height		KRA4008F	KRA2007F	KRA2005F
	Inches	mm	Inches	mm	Inches	mm	Drawers	Drawers	Drawers
2" Wide	21 7/16	544	17 1/2	445	1 5/8	41	4	2	—
4" Wide	21 7/16	544	17 1/2	445	3 5/8	92	3	4	4
8" Wide	21 7/16	544	17 1/2	445	7 5/8	193	1	1	—
12" Wide	21 7/16	544	17 1/2	445	11 5/8	295	—	—	1
Total Drawer Count							8	7	5

Colors Available



All KRA5000 and KRA4000 Series units are available in 4 standard colors. Add suffix to base stock number for special colors.

Colors Available



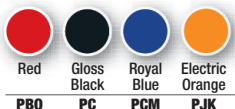
KRA2007 and KRA2005 Series units are available in 3 standard colors. Add suffix to base stock number for special colors.

Top Chests



KRA5308FPBO

Colors Available



All KRA5000 and KRA4000 Series units are available in 4 standard colors. Add suffix to base stock number for special colors.

KRA5308F Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
12,970 (212,540)	4,191 (27,039)	224 (102)	269 (122)	
Specifications	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
	8	53 3/8 (1,356)	19 13/16 (503)	19 3/8 (493)
Drawers	2	11 1/8 (283)	17 1/2 (445)	1 5/8 (41)
	2	11 1/8 (283)	17 1/2 (445)	3 5/8 (92)
	2	34 3/4 (881)	17 1/2 (445)	1 5/8 (41)
	2	34 3/4 (881)	17 1/2 (445)	3 5/8 (92)
Top Compartment	—	52 3/8 (1,328)	18 3/4 (475)	4 5/8 (118)



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

HERITAGE SERIES

Top Chests



KRA5315FPCM



KRA4810FPJK



KRA4114FPCM



KRA4014FPC

Colors Available



All KRA5000 and KRA4000 Series units are available in 4 standard colors. Add suffix to base stock number for special colors.

KRA5315F Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
10,758 (176,324)	4,065 (26,227)	244 (110)	298 (135)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	15	53 3/8 (1,356)	19 13/16 (503)	19 7/16 (494)
Drawers	6	11 1/8 (283)	17 1/2 (445)	1 5/8 (41)
	4	11 1/8 (283)	17 1/2 (445)	3 5/8 (91)
	2	21 3/8 (542)	17 1/2 (445)	1 5/8 (41)
	2	21 3/8 (542)	17 1/2 (445)	3 5/8 (91)
	1	34 3/4 (881)	17 1/2 (445)	3 5/8 (91)

KRA4810F Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
9,359 (153,370)	3,026 (19,520)	196 (89)	226 (103)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	8	40 (1,016)	19 13/16 (503)	19 7/16 (494)
Drawers	2	11 1/8 (283)	17 1/2 (445)	1 5/8 (41)
	2	11 1/8 (283)	17 1/2 (445)	3 5/8 (91)
	2	21 3/8 (283)	17 1/2 (445)	1 5/8 (41)
	2	21 3/8 (283)	17 1/2 (445)	3 5/8 (91)
Top Compartment		39 7/8 (1,013)	18 1/2 (475)	4 3/4 (120)

KRA4114F Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
9,746 (159,710)	3,178 (20,500)	183 (83)	213 (97)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	4	40 1/16 (1,017)	19 13/16 (503)	19 7/16 (494)
Drawers	2	34 3/4 (881)	17 1/2 (445)	1 5/8 (41)
	2	34 3/4 (881)	17 1/2 (445)	3 5/8 (91)
Top Compartment		39 7/8 (1,014)	18 3/4 (475)	4 3/4 (120)

KRA4014F Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
6,180 (101,270)	1,995 (12,870)	119 (54)	142 (64)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	4	26 3/4 (678)	19 13/16 (503)	19 7/16 (494)
Drawers	2	21 3/8 (542)	17 1/2 (445)	1 5/8 (41)
	2	21 3/8 (542)	17 1/2 (445)	3 5/8 (91)
Top Compartment		26 5/8 (675)	18 3/4 (475)	4 3/4 (120)

Top Chests



KRA2055FPBO

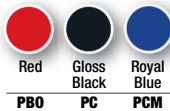


KRA4059FPC

KRA2055F Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
4,452 (72,955)	1,814 (11,703)	90 (41)	110 (50)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	5	26 (660)	14 3/4 (373)	17 1/4 (437)
Drawers	4	22 1/8 (559)	13 1/8 (332)	1 7/8 (47)
	1	22 1/8 (559)	13 1/8 (332)	3 1/8 (79)
Top Compartment		25 13/16 (655)	13 3/4 (348)	3 7/8 (97)

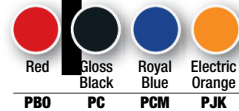
Colors Available



KRA4059F Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
4,288 (70,268)	1,753 (11,309)	92 (42)	117 (53)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	9	26 (660)	14 3/4 (373)	17 3/16 (436)
Drawers	6	6 11/16 (169)	13 1/8 (332)	1 3/4 (44)
	2	22 1/8 (559)	13 1/8 (332)	1 7/8 (47)
	1	22 1/8 (559)	13 1/8 (332)	3 1/8 (79)
Top Compartment		25 13/16 (655)	13 3/4 (348)	3 7/8 (97)

Colors Available



Drawer Sections



KRA4860FPBO

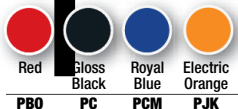


KRA2063FPC

KRA4860F Series Drawer Sections

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
3,112 (50,997)	1,216 (7,845)	115 (52)	145 (66)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	2	40 (1,016)	19 13/16 (503)	9 13/16 (249)
Drawers	1	34 11/16 (881)	17 9/16 (445)	1 5/8 (41)
	1	34 11/16 (881)	17 9/16 (445)	3 5/8 (91)

Colors Available



All KRA5000 and KRA4000 Series units are available in 4 standard colors.
Add suffix to base stock number for special colors.

KRA2063F Series Drawer Sections

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
1,792 (29,365)	1,124 (7,252)	70 (22)	94 (43)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	3	26 (660)	19 13/16 (503)	9 11/16 (246)
Drawers	3	21 3/8 (544)	17 9/16 (445)	1 5/8 (41)

Colors Available



Add suffix to base stock number for special colors.



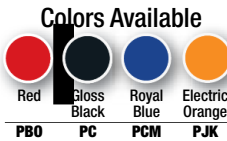
WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

HERITAGE SERIES

Lockers



All KRA5000 and KRA4000 Series units are available in 4 standard colors. Add suffix to base stock number for special colors.



KRA5012FPBO

KRA5012F Series Lockers

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
10,177 (166,770)	1,480 (9,548)	115 (52)	145 (66)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	4	16 1/2 (419)	19 13/16 (503)	51 1/2 (1,308)
Drawers	2	11 3/16 (288)	17 9/16 (445)	1 5/8 (41)
	2	11 3/16 (288)	17 9/16 (445)	3 5/8 (92)
Shelves	3	12 3/8 (315)	18 3/4 (475)	11 3/4 (297)

End Cabinets



KRA4820FPC



KRA4830FPBO

KRA4820F Series End Cabinets

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
5,094 (83,476)	1,174 (7,574)	117 (53)	147 (67)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	6	16 1/2 (419)	19 13/16 (503)	32 1/8 (815)
Drawers	2	11 1/8 (283)	17 9/16 (445)	1 9/16 (39.7)
	3	11 1/8 (283)	17 9/16 (445)	3 1/2 (88.9)
	1	11 1/8 (283)	17 9/16 (445)	11 3/4 (297)

KRA4830F Series End Cabinets

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
8,426 (138,080)	843 (5,439)	76 (35)	97 (44)	
	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)	
Specifications	16 1/2 (419)	19 13/16 (503)	32 5/16 (820)	
Shelves 2	15 1/16 (381)	18 5/8 (473)		
Lower Compartment 1	15 1/16 (381)	18 5/8 (473)		



All KRA5000 and KRA4000 Series units are available in 4 standard colors. Add suffix to base stock number for special colors.

Tool Storage (Blue-Point®)



KRB2055FPQP



KRB2006FPQR



KRB2055F Series Top Chest

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
4,444 (72,824)	1,818 (11,729)	84 (38)	96 (44)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	5	26 (660)	14 3/4 (373)	17 7/16 (436)
Drawers	4	22 5/16 (566)	13 5/16 (333)	1 7/8 (47.2)
	1	22 5/16 (566)	13 5/16 (333)	3 1/8 (79.3)
Top Compartment		25 13/16 (655)	13 11/16 (347)	3 7/8 (98)

KRB2006F Series Roll Cab

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)	
9,568 (156,791)	2,247 (14,496)	165 (75)	210 (95)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	6	26 (660)	19 13/16 (503)	38 (965)
Drawers	5	21 3/8 (543)	17 9/16 (445)	3 5/8 (91.2)
	1	21 3/8 (543)	17 9/16 (445)	7 5/8 (193)

Where Mobility Meets Durability.

You've been there before, stranded with a lightweight roll cart. That's not something you have to worry about with Snap-on. With over a dozen options, this family of carts is designed and built to get you where you're going.

Mobility — Heavy Duty Mobile Workstation has 8" x 2" high-strength casters to navigate rough floors and gravel. 40" carts use 6" x 2" monoprene soft vibration-resistant casters to overcome small obstacles.

Safety — Lockable wheels, bumpers, rolled drawer edges, radiused corners and fully welded designs keep you and your surroundings safe from damage.

The Capacity You Need.

From the basic two-tray cart to the Heavy Duty Mobile Workstation, your needs are met with Snap-on® and Blue-Point® carts.

Heavy Duty Mobile Workstation — The ultimate high-capacity cart has a work surface that holds up to 1,000 lbs., yet is still smooth enough to write on.

Lock-n-Roll® or InPulse™ Drawers — High capacity drawers hold more tools and won't drift open. Drawer slides can be added to double drawer capacity.

Lid selection — Choose from traditional, sliding stainless or permanent reinforced stainless lids to meet your specific needs.



MOBILE SOLUTIONS

Mobile Workstations



KRSC100APBO



KRSC101POT



MKC18043NOR



MKC18062NTN

KRSC100A/KRSC101 Series Mobile Workstations

- Each unit holds 1 ton (2,000 lbs), fully welded body
- 8" semi soft swivel lock casters, extra heavy duty weight capacity will go over obstacles that stop ordinary carts
- Convenience drawer (optional on KRSC100A, standard on KRSC101) large enough for short term storage of work in progress parts
- 1,000 lb capacity, 38 x 26" top work surface (stainless steel) has raised edge all the way around
- 4 and 6" InPulse™ drawers retain up to 20x the weight of standard detents without drifting open
- Vertical bumper system with soft edges
- Large diameter handle with stainless steel grip

KRSC100A Series Mobile Workstations

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Load Capacity, lbs (kg)	
7,943 (130,162)	2,362 (15,238)	320 (145)	2,000 (907)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	2	38 (965)	26 (660)	43 ⁵ / ₁₆ (1,100)
Drawers	1	30 ¹ / ₁₆ (768)	24 (609)	6 ³ / ₁₆ (157)
	1	30 ¹ / ₁₆ (768)	24 (609)	3 ¹⁵ / ₁₆ (100)
Bottom Tray	1	35 (889)	26 (660)	³ / ₄ (19)

KRSC101 Series includes all specifications above plus added convenience drawer 100W16S.

KRSC100A/KRSC101 Optional Accessories

Stock No.	Description
100W16S	6" optional (nonlocking) bottom convenience drawer for KRSC100A (Add proper color suffix)
KASR12APV	Screwdriver rack
KAT18APV	Can holder
KAPR24APV	Pry bar rack
KAS12PWRPV	Power tool rack (Holds 3 power tools)
KEWLEDFLEXL	Workstation light, LED, flexible neck, rechargeable
KAHK6	6" Extended hook
KAHCK3	3" Curved hook
KAHLK3	3" Loop
KALS15	Laptop shelf 15"

All Weather Mobile Tool Chest

- 22.1" wheel base on the wide corners for stability
- Innovative 4 bar latch system for secure lid closure
- Telescoping handle with higher reach
- Over top hinged lid can be used as a seat when case is closed
- Drawers fully extend on Snap-on® proprietary composite slides
- Usable space interior dimensions: 21.2" W x 11.9" D x 15.4" H
- 4,130 cubic inches of internal space
- Heavy duty butterfly hinges
- Auto pressure equalization valve
- Large side handles that may be gripped with 2 hands
- Configurable drawers; Interchangeable with other mobile tool chests
- Heavy duty roll cage ribs; Durable, shock resistant material
- Stackable design even when fully loaded
- Snap-on padlock holder with 250 lbs of breakin resistance
- Water resistant when submerged to one meter
- Case material made with Zerust® corrosion inhibitor to help prevent tools from rusting
- Net weight 44 lbs (20 kg)

MKC18043NBK All Weather Tool Chest. 7 drawers. Black.

MKC18043NGR All Weather Tool Chest. 7 drawers. Green.

MKC18043NOR All Weather Tool Chest. 7 drawers. Orange.

MKC18043NTN All Weather Tool Chest. 7 drawers. Tan.

Use MKC18062 for 8 drawer versions.

Optional Accessories:

TCK18043BR Tool Control Kit. For 7 drawer units only.

JKMC18-7NS Nonslip Drawer Liner Kit. For 7 drawer units only.

KRA6200F/KRA6210F Series Road Chest

- Wider side walls with added corner gussets to keep corners square
- 3 stiffeners behind front cover with inside padding: strengthens cover and protects drawers
- Cover and front are hinged together for quick and easy access to all tools
- Overlap on lid allows water to flow past without entering the front section
- Handles on KRA6210F Series provide easier lifting (Handle 8 - 3533, add color suffix)
- 3 friction hinges keep the front cover from slamming



KRA6200FPBO



KRA6210FPBO

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Shipping Weight, lbs (kg)
11,937 (195,612)	3,460 (22,323)	282 (128)*	325 (147)*
Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
4	*36 (914)	24 (610)	24 (610)
2	30 1/2 (775)	21 3/4 (552)	1 3/4 (44)
2	30 1/2 (775)	21 3/4 (552)	3 5/8 (92)
Top Compartment	34 7/8 (885)	22 1/2 (571)	5 1/2 (139)

*add 25 lbs for cage on KRA6200F

Optional Waterproof Covers

KRA6200	KAC6200 (Red)	KAC6200PC (Black)
KRA6210	KAC6210 (Red)	KAC6210PC (Black)

Optional 2" steel drawer divider set - KADDS2402

Colors Available



Roll Carts

KRSC10F Series Workstation Top Roll Cart

- Solid stainless steel top holds 600 lbs
- Rubber donut casters go over obstacles

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Load Capacity, lbs (kg)
16,218 (265,765)	2,051 (13,232)	179 (81.1)	1,200 (544)
Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
3	32.7 (830)	20 1/2 (520)	41 (1,040)
3	27 1/8 (689)	17 1/2 (445)	3 5/8 (92)
Shelves/Trays	1	32 (813)	19 1/2 (495)



KRSC10FPC

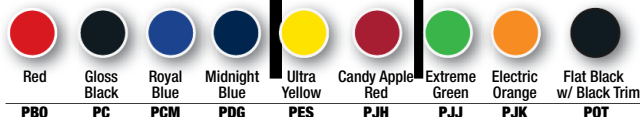
KRSC326F Roll Cart.

- Similar features to KRSC46F
- More compact width and 4 swivel casters

KRSC326F Series - Compact 6 Drawer Roll Cart (32" Wide)

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Load Capacity, lbs (kg)
16,847 (276,073)	3,533 (22,794)	157 (71.2)	1,200 (544)
Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
6	32 11/16 (830)	20 1/2 (520)	43 (1,092)
5	27 1/8 (689)	17 1/2 (445)	3 5/8 (92)
1	27 1/8 (689)	17 1/2 (445)	7 5/8 (193)
Top Compartment	32 (812)	18 13/16 (478)	6 11/16 (170)

Colors Available



*Flat Black is only available on KRSC326F Series



KRSC326FPBO



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

Roll Carts



KRSC46FPES

Colors Available



KRSC46F Series Roll Carts.

- One piece, fully welded body is designed for maximum strength
- Inherent strength for storage capacity found only in the best tool storage cabinets
- 7" top compartment uses nonslip liner internally to accommodate heavy tools and parts
- Drawers are 36" wide. Drawer capacity: 100 lbs per drawer; up to 200 lbs with double slide
- Accessory panels (KRSC404APV) can be added to both sides providing slot pattern for accessories
- Accommodates the KRA4830F end cab (KRSC404APV adaptor panel required)
- Snap-on® KRA-style drawers with Lock-n-Roll® so drawers will not drift open
- Optional JKRR40W55—rubber top mat (not included)

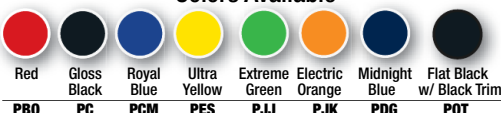
KRSC46F Series Roll Cart

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Load Capacity, lbs (kg)	
20,783 (340,572)	4,392 (28,335)	265 (120)	2400 (1089)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	6	40 1/2 (1,029)	20 (508)	46 (1,168)
Drawers	5	34 3/4 (882)	17 1/2 (444)	3 5/8 (92)
	1	34 3/4 (882)	17 1/2 (444)	7 5/8 (193)
Top Compartment		39 13/16 (1,011)	18 13/16 (478)	7 (178)



KRSC416FPCM

Colors Available



KRSC416F Series Roll Carts.

- Stainless steel sliding lid is recessed to keep tools in place
- Top section is 7" deep with holes for vertical storage pry bars

KRSC416F Series - 40" Super Deluxe Shop Carts

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Load Capacity, lbs (kg)	
20,783 (340,573)	4,392 (28,335)	262 (118.8)	2,400 (1,088)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	6	40 (1,016)	20 (508)	46 (1,168)
Drawers	5	34 3/4 (882)	17 1/2 (444)	3 5/8 (92)
	1	34 3/4 (882)	17 1/2 (444)	7 5/8 (193)
Top Compartment		39 13/16 (1,011)	18 13/16 (478)	7 (178)

KRSC46F & KRSC416F Series Roll Cart Accessories.

- Create the ultimate shop cart
- Easier to customize than any shop cart in the industry
- See page 393 for complete list of slotted accessories

Stock No.	Description
KRA412F*	Folding side shelf
KRA4830F*	End cab. Comes equipped with adjustable shelves; optional drawers can also be added
KACSC40PC	Protective nylon cover (black 200 Denier® nylon)
KRSC404APV	Accessory mounting/adaptor panel; also used to mount end cab
6007K0120PV*	Cord wrap
KAS12APV*	12" flat shelf
KALR12PV*	Literature rack: 12" wide, 3" deep
KAT12APV*	12" can rack: 12" wide, 3" deep
KEWLEDFLEXL	Rechargeable LED flexible long neck work light (magnetic base)

*Requires KRSC404APV adaptor panel

KRSC33 Series Roll Carts.

- Entirely welded body and legs for super strength versus bolt together units
- 34" locking drawers
- Large top compartment
- 5 x 2" swivel casters, factory installed
- Factory assembled, welded tray and leg assembly
- Slots 'N Dots™ side panels for mounting accessories (see pg 393 for accessories)

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Load Capacity, lbs (kg)
9,591 (157,168)	2,110 (13,613)	157 (71.2)	600 (272)
	Drawers	Width, inches (mm)	Depth, inches (mm)
Specifications	3	27 1/8 (688)	17 1/2 (444)
Top Compartment		26 (660)	19 1/8 (485)
			Height, inches (mm)
			3 5/8 (92)
			6 1/2 (165)

Colors Available



KRSC33PC

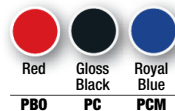
Roll Carts (Blue-Point®)

KRBC30TA Roll Cart.

- Portable 20' electrical cord reel with 4 outlets and circuit breakers
- Adjustable personal organizer tray in top compartment (3" deep x 24" wide x 1.5" high)
- One piece rubber bumper for each leg (already installed)
- Bottom corner bump blocks for extra corner protection
- Sturdy, spacious bottom drawer with 2 sets of drawer slides
- Larger pull handles for easy drawer opening
- Heavy duty padded handle
- Removable garbage can
- Sturdy side work table
- Removable spray can holder
- Comes with casters assembled on cart

Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Load Capacity, lbs (kg)
33,952 (556,372)	2,153 (13,890)	180 (81.5)	800 (362)
	Drawers	Width, inches (mm)	Depth, inches (mm)
Specifications	4	35 (889)	21 (533)
Top Compartment		24 (610)	1 1/2 (38.1)
			Height, inches (mm)
			41 1/4 (1,048)
			3 (76.2)

Colors Available



KRBC30TAPCM

KRBC10TB Series Roll Carts.

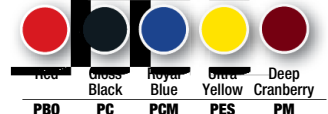
- Plated fasteners resist corrosion and self locking nuts assure a rigid, secure assembly
- Locking support tabs add strength, increase load capacity and facilitate quick assembly
- Made from heavy gauge steel for superior strength
- Retractable side work table
- Protective rubber bumpers
- Comes with casters assembled

	Cubic inches (cm ³)	Square inches (cm ²)	Load Capacity, lbs (kg)
	7,428 (121,700)	2,400 (15,480)	540 (245)
	Drawers	Width, inches (mm)	Depth, inches (mm)
Specifications	4	30 1/2 (775)	20 1/2 (520)
Drawers	2	11 1/2 (292)	17 1/2 (444)
	1	24 1/2 (622)	17 1/2 (444)
	1	24 1/2 (622)	17 1/2 (444)
Bottom Shelf	2	30 (762)	19 (482)
Top Compartment		30 (762)	19 (482)
External Tray (rear)		15 3/8 (390)	4 (101)
External Tray (front)		15 3/8 (390)	4 (101)
			Height, inches (mm)
			41 1/4 (1,048)
			2 1/2 (63.5)
			2 1/2 (63.5)
			2 1/2 (63.5)
			3 1/2 (88.9)
			2 1/2 (63.5)
			3 3/8 (85.9)
			2 (50.8)



KRBC10TBPC

Colors Available



BPNCVR10T Roll Cart Cover. Fits all KRBC10T, KRBC9T and KRBC30T series roll carts. Protects cart from dirty shop conditions. High quality 210 Denier® nylon. Sturdy zipper makes using the cover quick and easy. Waterproof and durable.



WARNING



- Secure end cabinet to roll cart per instructions
- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

MOBILE SOLUTIONS

Roll Carts (Blue-Point®)



KRBCSSTPES



KRBCSST Series Roll Carts.

- Padded lid protects finish and provides additional work surface
- Roller bearing slide drawers, locking slide top and internal pry bar holder
- Dual locking casters keep cart in place during use
- Convenient storage trays on both sides

	Cubic inches (cm ³)	Square inches (cm ²)	Net Weight, lbs (kg)	Load Capacity, lbs (kg)
	15,931 (261,062)	1,618 (26,514)	23.5 (56)	300 (136)
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	2	29 7/16 (747)	20 5/8 (524)	38 11/16 (982)
Top Compartment		29 7/16 (747)	20 5/8 (524)	6 13/16 (171)
Drawers	2	29 5/16 (744)	17 1/2 (444)	2 3/4 (69)
Bottom Compartment		29 5/16 (744)	17 1/2 (444)	3 (75.9)

BPNCVRSST Roll Cart Cover. Fits all KRBCSST series roll carts. Protects cart from dirty shop conditions. High quality 210 Denier® nylon. Sturdy zipper makes using the cover quick and easy. Waterproof and durable.

KRBCSST-CF Graphic Wrap. Customize KRBCSST Series Roll Carts in just a few easy steps. Carbon Fiber pattern. High quality 3M® vinyl. UV clear coating. 3 mm thick. Air channels for easy application with no bubbles. Pressure sensitive permanent adhesive. Complete kit includes 6 pieces.

KRBCSST-CAMO Graphic Wrap. Same as KRBCSST-CF except Camouflage pattern

KRBCSST-SSKL Graphic Wrap. Same as KRBCSST-CF except Smoke Skull pattern

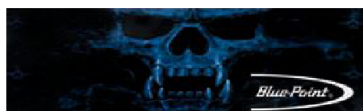
KRBCSST-FSKL Graphic Wrap. Same as KRBCSST-CF except Flame Skull pattern



KRBCSST-CF



KRBCSST-CAMO



KRBCSST-SSKL



KRBCSST-FSKL



KRBC15TPCM



KRBC15T Series Roll Carts.

- Padded lid protects finish and provides additional work surface
- as shock for safe closure
- Removable top chest locks to cart
- 2 roller bearing slide drawers on both the top chest and cart
- Dual locking casters keep cart in place during use

	Net Weight, lbs (kg)		Load Capacity, lbs (kg)	
	88.2 (40)		300 (136)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications		26 3/8 (670)	18 9/32 (464)	42 3/8 (1,077)
Top Compartment		26 (660)	11 13/16 (300)	4 7/16 (112)
Drawers	2	22 1/2 (571)	15 3/16 (386)	3 13/16 (96.5)
Bottom Shelf	1	26 1/4 (667)	17 15/16 (456)	13 (331)

KRBC15TTC Series Removable Top Chest

	Cubic inches (cm ³)		Shipping Weight, lbs (kg)	
	2,479 (40,624)		53 (24)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications		26 (660)	12 (304)	11 (280)
Top Compartment		26 (660)	11 13/16 (300)	4 7/16 (112)
Drawers	2	2 7/16 (61)	22 7/16 (569)	10 1/2 (267)

Roll Carts (Blue-Point®)

KRBC7TD Series Roll Carts.

- 4" zinc plated casters (2 locking, 2 swivel)
- 6 liners on drawer and tray, and 1 rubber mat for side work shelf
- Latch system to unlock all 4 drawers once the top lid has been opened with a key
 - as springs on lid for greater control
- Folding side work shelf provides extra work space
- Locking flip top lid with full length piano hinge
- Locking prybar compartment securely holds all length prybars and screwdrivers

	Net Weight, lbs (kg)		Load Capacity, lbs (kg)	
	112.2 (50.8)		300 (136)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	4	35 (889)	17 (431)	41 (1,041)
Drawers	2	13 13/16 (350)	15 3/8 (398)	2 (50.8)
	1	27 9/16 (700)	15 7/16 (391)	2 (50.8)
	1	27 9/16 (700)	15 7/16 (391)	4 (101)
Bottom Shelf	1	27 9/16 (700)	15 7/16 (391)	3 (76.2)

BPNCVR7TB Roll Cart Cover. Fits all KRBC7TB and KRBC7TA series roll carts. Protects cart from dirty shop conditions. High quality 210 Denier® nylon. Sturdy zipper makes using the cover quick and easy. Waterproof and durable.



KRBC7TDPCM

Colors Available



KRBC2TC Series Roll Cart.

- Rugged, general duty dual shelf roll cart
- Trays feature rolled edges for improved strength and rigidity
- Maximum load capacity 150 lbs (68 kg) per tray
- Casters are 4 x 1 1/8" (2 locking, 2 standard)

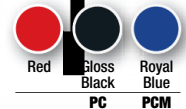
	Net Weight, lbs (kg)		Load Capacity, lbs (kg)	
	38 (17.2)		300 (136)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications		30 (756)	17 (428)	36 1/4 (920)
Trays	2	30 (756)	17 (428)	3 (75)

KRBC3TD-1 Locking Drawer. Optional add-on locking drawer for KRBC2TC.
350ABMF09 Replacement Add-On Tray. For KRBC2TC/KRBC3TD.



KRBC2TC

Colors Available



KRBC3TD Roll Cart.

- Features locking drawer with tubular lock for added tool security
- 2 sturdy, 3" deep trays are positioned for convenience
- 150 lb (68 kg) load capacity per tray
- Made of heavy gauge steel
- 4 x 1 1/8" casters (2 locking, 2 standard)

	Net Weight, lbs (kg)		Load Capacity, lbs (kg)	
	65 (29.4)		300 (136)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications		30 (762)	17 (428)	36 1/4 (920)
Trays	2	27 (685)	15 1/2 (762)	4 (101)
Drawer	1	27 (685)	14 1/2 (368)	4 (101)



KRBC3TDPC

Colors Available



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

MOBILE SOLUTIONS

Roll Carts



KR5000C

KR5000C Heavy Duty Roll Cart.

- Heavy gauge steel shelves/frame
- Solid rubber 4" x 1" casters (2 rigid, 2 swivel with brakes)

	Net Weight, lbs (kg)		Load Capacity, lbs (kg)	
	53 (24)		500 (227)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications		36 (914)	24 (610)	38 1/4 (972)
Trays	2	38 31/32 (990)	23 31/32 (609)	37 13/32 (950)



KRP1HD

KRP1HD Polymer Roll Cart.

- Heavy duty polymer construction will not scratch painted surfaces, will not corrode and is nonconductive
- Top slides in either direction to reveal storage compartment and work surface underneath
- Built-in tool holders in handles accept wide variety of screwdrivers, small prybars, pliers and other small to medium hand tools
- Drain plugs in both upper and lower trays facilitate cleanup
- Red trays with grey lid and legs
- Locking swivel casters
- Each tray has 160 lb (73 kg) load capacity

	Net Weight, lbs (kg)		Load Capacity, lbs (kg)	
	37 (16.8)		320 (145)	
	Drawers	Width, inches (mm)	Depth, inches (mm)	Height, inches (mm)
Specifications	1	43 (1,092)	21 3/4 (552)	38 1/2 (978)
Top Tray	1	43 (1,092)	21 3/4 (552)	3 3/16 (80.9)
Bottom Tray	1	43 (1,092)	21 3/4 (552)	2 13/16 (71.4)

Under Hood Rolling Service Tray

BLPUHST Under Hood Service Tray.

- Convenience with less user motion and fatigue
- 24" leg clearance allows the service tray to slide under the hood from the front or the side of vehicle
- Parts dividers and screwdriver holders built in the tray
- Protective bumpers included for top tray and support post
- 3" heavy duty swivel casters
- Height adjustable support post adjusts from 35 13/16 to 48 3/8" for the tray to clear the fender or front end of most vehicles
- EVA pads in all tray compartments
- Dimensions (fully assembled): 29 1/2" L x 26" W x 48 3/8" H
- Maximum load capacity: 75 lbs (34 kg)



BLPUHST



BLPUHSTPC
(matte black)

We Made it Snap-on. You Make it Yours.

Whether you're looking for something personalized or something practical, Snap-on has plenty of ways for you to customize your Snap-on® tool storage unit.



Carbon Fiber Drawer Guards – Made from real resin infused carbon fiber; enhance the appearance while keeping drawer tops clean and protected.

Corner Guards – Steel, powder coated gloss black guards that protect the front corners of roll cab. Laser-cut Wrench “S” exposes paint beneath the guard.

Drawer Front – Gloss black drawer cover is made from powder coated steel. Cut out Snap-on logo exposes paint beneath the drawer cover



TOOL STORAGE ACCESSORIES

Boxes and Tote Trays



YA481



YA483



YA486



KRP5CAB



KRP5PB



YA402

Plastic Boxes (Blue-Point®)

Ideal for a wide range of storage needs. YA481 through YA486 are made of tough, injection molded plastic to ensure a precise fitting lid and durability. Top carrying handle, tension latches, tote tray and padlock provision are also featured.

YA481 Plastic Box. 14 1/2" W x 7 1/4" D x 4 1/2" H.

YA482 Plastic Box. 16 1/2" W x 8 1/4" D x 6 1/2" H.

YA483 Plastic Box. 20 1/4" W x 9" D x 7 3/4" H.

YA484 Plastic Box. 23 1/8" W x 10 1/4" D x 10 1/2" H.

YA486 Plastic Box. 27 1/2" W x 13 3/8" D x 14" H.

Parts Storage Cases

KRP5CAB Five Drawer Storage Cabinet.

- Use to store or inventory small tools and parts
- Black, heavy duty polypropylene cabinet with 5 removable drawers (KRP5PB)
- Each drawer features a translucent plastic divider system that allows full customization for individual needs
- Drawers are easily removable for transport to job location
- Units can be stacked or wall mounted
- Resistant to common solvents
- Cabinet dimensions are 15 1/2" W x 14 1/2" D x 16" H

KRP5PB Storage Drawer.

- Plastic storage drawer for KRP5CAB parts storage cabinet
- Each drawer features 16 translucent section dividers for unlimited customizing options (KRP5PB-16 = 16 Dividers)
- Drawer measures 13 5/8" W x 9 5/8" D x 2 1/4" H

YA402 Parts Storage Case.

- Interchangeable partitions allow customizing from 9 to 24 compartments
- Rugged polypropylene construction
- 14 5/8" W x 10 3/4" D x 2 5/16" H

YA485 Parts Storage Case.

- Similar to YA402 except interchangeable partitions can form 8 to 32 compartments
- 18" x 12" x 3"

Plastic Boxes with Steel Drawers (F.O.D. Design)

- Portable tool chest designed specifically for Foreign Object Damage (F.O.D.) applications
- Accepts both magnetic and foam tool control systems for tool accountability
- 22 gauge steel drawers are interchangeable for custom configurations
- Standard drawer configuration includes (4) drawers measuring 7 7/8" x 19 9/32" x 1 7/8" and (1) drawer measuring 7 7/8" x 19 9/32" x 4"
- Molded polymer one piece design (handle, latches, strap pins, hinges, and lock clasp) minimizes potential loose pieces that could cause F.O.D. molded recesses in outer case allow vertical and horizontal stacking
- Padded carrying strap for extra comfort
- 24" W x 10 5/32" D x 17 13/32" H; With capacities of 759 sq in and 1,760 cu in; Weight 33 lbs (capacity specifications listed are based on standard drawer configuration)

KRP825PCA Grey case and red drawers

KRP825PCC Red case and red drawers



KRP825PCA



KRP825PCC



KTA3A

Tote Trays

KTA3A Metal Tote Tray.

- Tubular pull up handle lifts 1 5/8"
- Measures 20 1/4" x 8" x 3 1/4" with handle down

KTA8PV Metal Tote Tray.

- Drops in any 14" wide (4" deep) drawers on KRL1000 and KRL700 series tool storage units
- 4 nonskid rubber feet protect finished surfaces from scratching
- Raised lips hold tray securely in drawer
- Tubular pull up handle raises 1 3/4"
- Measures 10" W x 14 13/16" L x 3 13/16" H with handle down
- Black textured finish



KTA8PV

KRP1001A Plastic Tote Tray.

- Made of tough, rustproof, nonconductive, chemical resistant polymer
- Includes 2 deep end pockets
- Bottom drawer is divided into 12 compartments and can be opened from either side
- 16 5/8" x 10 1/4" x 6 7/8"



KRP1001A

Wall Cabinet

KRA276D Wall Cabinet.

- Snap-on® wall cabinets provide both security and inventory control
- Wall cabinet can be mounted to wall, stationary bench or roll cab
- Ruggedly built of heavy gauge steel for durability
- Theft resistant cylinder locks and a 2 point locking system provide protection for your tools
- Features PLEXI LAS® door panels to permit checking tool inventory without opening doors
- Cabinet measures 33 7/8" x 24 3/4" x 6"



KRA276D



WARNING



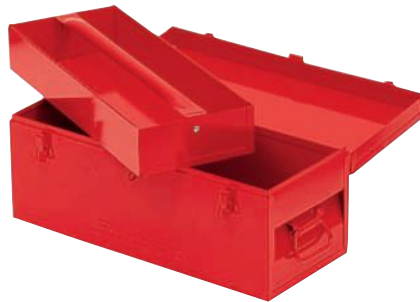
- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

TOOL STORAGE ACCESSORIES

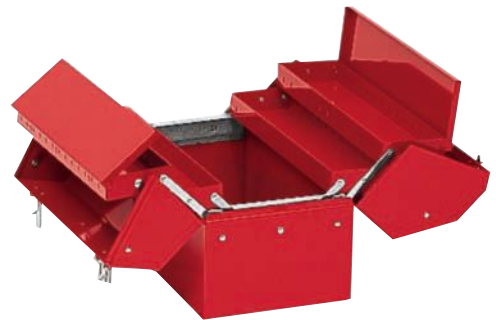
Metal Boxes



KRW184B



KRA25D



KRW48C



UT22K



KRA21G



KRW182B



KRW183C



KRU24B



KRA24



KRU24GB

Stock No.	Cubic Inches (cm)	Square Inches (cm)	Dimensions, inches	Description/Features
KRW184B*	1,851 (30,330)	684 (4,413)	20 ¹⁹ / ₃₂ x 8 ¹ / ₂ x 14 ¹ / ₄ Each Drawer: 17 ¹³ / ₁₆ x 7 ⁵ / ₁₆ x 2 ¹ / ₂	4 drawers lock when lid is closed. Tote tray not included. Net weight: 25 lbs
KRA25D	1,568 (25,690)	180 (1,161)	20 ⁷ / ₈ x 8 ³ / ₄ x 8 ³ / ₄	Includes KTA3A Partitioned Tote Tray
KRW48C*	1,530 (25,070)	476 (3,071)	18 x 10 x 13 ¹ / ₄	Split top opening for tool access. Cantilever trays on either side of cover, carrying handle.
UT22K	1,444 (23,660)	525 (3,837)	Overall: 22 x 8 x 9 4 Small Trays: 22 x 4 x 2	Opens up to expose 5 storage trays; no trays lift out, no drawers to open. 1 Large Tray: 22 x 8 x 9
KRA21G	996 (16,320)	486 (3,135)	Overall: 20 ³ / ₄ x 8 ⁹ / ₁₆ x 11 ¹ / ₄ Top Drawer: 19 ³ / ₄ x 7 ³ / ₄ x 1 ¹⁵ / ₁₆ Bottom Drawer: 19 ³ / ₄ x 7 ³ / ₄ x 2 ¹³ / ₁₆ Compartment: 20 ³ / ₄ x 8 ⁹ / ₁₆ x 1 ¹⁵ / ₁₆	Includes KTA3A partitioned tote tray. Net weight: 28 lbs
KRW182B*	1,137 (18,630)		18 ¹ / ₂ x 8 ¹ / ₂ x 9 ¹ / ₂	Net weight 12.5 lbs. Shipping weight: 14.5 lbs
KRW183C*	1,637 (26,830)		Overall: 20 ¹⁹ / ₃₂ x 8 ¹ / ₂ x 12 Each Drawer: 17 ¹³ / ₁₆ x 7 ⁵ / ₁₆ x 2 ¹ / ₂	Drawers lock when lid is closed. Net weight: 20 lbs
KRU24B*	2,540 (41,623)	670 (4,322)	Trays: 21 ¹ / ₂ x 4 ⁵ / ₈ x 1 ¹³ / ₃₂ Bottom Section: 23 ³ / ₈ x 11 ⁵ / ₈ x 7 ¹ / ₄ Overall: 24 x 12 x 12	Lightweight, only 27 lbs (12.3 kg). 4 trays allow organization of smaller items.
KRA24	1,155 (18,930)	154 (994)	19 ⁵ / ₈ x 7 ³ / ₄ x 7 ¹ / ₂	Includes partitioned tote tray.
KRU24GB*	2,540 (41,623)	670 (4,322)	Trays: 21 ¹ / ₂ x 4 ⁵ / ₈ x 1 ¹³ / ₃₂ Bottom Section: 23 ³ / ₈ x 11 ⁵ / ₈ x 7 ¹ / ₄ Overall: 24 x 12 x 12	Lightweight, only 27 lbs (12.3 kg). 4 trays allow organization of smaller items.

*Blue Point®



Stainless Steel Work Surfaces

KRSST761B

Stainless steel tops turn roll cabs into moveable work benches. Constructed from high grade, 16 gauge 304 stainless steel. Raised front lip keeps sockets and parts from rolling off. Tops are 1 7/8" thick.

Stock No.	Applications	Width, inches	Depth, inches
KWSN3010AST	KEXN603A EPIQ Roll Cab	120	30
KWSN3012AST	KEXN725A/KEXP725A EPIQ Roll Cabs	144	30
KWSN3030AST	KEBN301A EPIQ End Cabinet	30	30
KWSN3060BST	EPIQ Series Roll Cabs	60	30
KWSN3068BST	EPIQ Series Roll Cabs	68	30
KWSN3076BST	EPIQ Series Roll Cabs	76	30
KWSN3084BST	EPIQ Series Roll Cabs	84	30
KWSP3060BST	Power Top for EPIQ Series Roll Cabs	60	30
KWSP3068BST	Power Top for EPIQ Series Roll Cabs	68	30
KWSP3076BST	Power Top for EPIQ Series Roll Cabs	76	30
KWSP3084BST	Power Top for EPIQ Series Roll Cabs	84	30
KWSH3076BST	PowerHouse Top for EPIQ Series Roll Cabs	76	30
KWSH3084BST	PowerHouse Top for EPIQ Series Roll Cabs	84	30
KRSST1001B	KRL1022/KRL7022 Roll Cabs	54 3/16	28 15/16
KRSST7003B	KRL1023/KRL1032/ KRL1033/KRL7023 Roll Cabs	72 13/16	28 15/16
KRSST7001	KRL1056 Roll Cabs	35 9/16	28 15/16
KRSST761B	KRL722 Roll Cabs	54 3/16	23 7/8
KRSST756	KRL756 Roll Cabs	35 9/16	23 7/8
KRSST7011	KRL 29" End Cap	19 7/8	28 15/16
KRSST40F	KRA Series 40" Roll Cabs (Square)	39 3/4	19 1/2
KRSST711	KRL711/KRL715 End Cabs	19 7/8	23 7/8
KRSST5000	KRA5000 Series/KRA2306/KRA2300 Series Roll Cabs (Round Corners)	53 1/16	19 1/2
KRSST4107	KRA4107/KRA4813/KRA2107/KRA2212 Roll Cabs (Rounded)	39 3/4	19 1/2
KRSST2418	KRA2418/KRA2432/KRA2496 Roll Cabs	73 3/8	23 11/16
KRSST2411	KRA2422/KRA2411 Roll Cabs	54 3/4	23 11/16
KRSST2407	KRA2407 Roll Cabs	35 7/8	23 11/16
KRSST5300	KRA5318/KRA5311 Roll Cabs (Square Corners)	53 1/16	19 1/2
KRSST4008	KRA4008, KRA2007	26	19 1/2



Hardwood Tops

KRWT7002A

Northern hard maple butcher block tops allow roll cabs to double as full length workbenches. Tops are 1 3/4" thick.

Stock No.	Applications	Width, inches	Depth, inches
KWSN3010AWT	KEXN603A EPIQ Roll Cab	120	30
KWSN3060AWT	EPIQ Series Roll Cabs	60	30
KWSN3012AWT	KEXN725A/KEXP725A EPIQ Roll Cabs	144	30
KWSN3068AWT	EPIQ Series Roll Cabs	68	30
KWSN3076AWT	EPIQ Series Roll Cabs	76	30
KWSN3084AWT	EPIQ Series Roll Cabs	84	30
KRWT7002A	KRL1022/KRL7022 Roll Cabs	53 11/16	27 5/8
KRWT7003A	KRL1023/KRL1032/ KRL1033/KRL7023 Roll Cabs	72 5/16	27 5/8
KRWT7001A	KRL1056 Roll Cabs	35 1/8	27 5/8
KRWT761B	KRL722 Roll Cabs	53 3/4	22 9/16
KRWT756A	KRL756 Roll Cabs	35 1/8	22 9/16
KRWT7011A	KRL7011/KRL7015/KRL1011/KRL1015 End Cabs	19 5/16	27 5/8
KRWT711A	KRL711/KRL715 End Cabs	19 5/16	22 5/8
KRWT5000A	KRA5213/KRA5319/KRA2306/KRA2300 Series Roll Cabs (Rounded)	53 1/16	19 7/16
KRWT4800B	KRA4107/KRA4813 Roll Cabs (Rounded)	39 3/4	19 7/16
KRWT2411	KRA2422/KRA2411 Roll Cabs	54 3/4	23 11/16
KRWT2418	KRA2418/KRA2432/KRA2496 Roll Cabs	73 3/8	23 11/16
KRWT2407	KRA2407 Roll Cabs	35 7/8	23 11/16
KRWT26F	KRA4008F/KRA2007F (Square)	26	19 7/16
KRWT40F	40" RC (Square)	39 3/4	19 7/16
KRWT5300	KRA5318/KRA5311 Roll Cabs (Square)	53 1/16	19 7/16
KRWT4008	KRA4008E/KRA2007 Roll Cabs (Rounded)	26	19 7/16



JKRR711CR

Nondirectional Rubber Mats

Nondirectional rubber top mats protect tool storage units from damage. Light weight, fine textured, all rubber construction. Will not shrink, curl or separate. Cleans easily and quickly. Impervious to most oil and chemicals.

Stock No.	Application
JKRR10011CR	KRL1022/KRL7022 Series Roll Cabs
JKRR1003CR	KRL1023/KRL1032/KRL7023/KRL1033 Series Roll Cabs
JKRR1056CR	KRL1056 Series Roll Cabs
JKRR761CR	KRL722 Series Roll Cabs
JKRR756CR	KRL756 Series Roll Cabs
JKRR1010CR	KRL1011/KRL7011/KRL7015/KRL1015 Series End Cabs
JKRR7012CR	KRL1012/KRL7012/KRLV7012 Series Lockers
JKRR711CR	KRL711 Series End Cabs
JKRR712CR	KRL712 Series Lockers
JKRR3800CR	KRA4107/KRA4800/KRA2107/KRA2212 Series Roll Cabs
JKRR379ACR	KRA4008/KRA2007 Series Roll Cabs
JKRR2411CR	KRA2422/KRA2411 Series Roll Cabs
JKRR2418CR	KRA2418/KRA2432/KRA2496 Series Roll Cabs
JKRR3820CR	KRA4820/KRA4833 End Cabs, KRA5012 Locker
JKRR40W55	KRSC40/KRSC46 Roll Carts
KWSN3060ACR	EPIQ Series Roll Cabs
KWSN3068ACR	EPIQ Series Roll Cabs
KWSN3076ACR	EPIQ Series Roll Cabs
KWSN3084ACR	EPIQ Series Roll Cabs
KWSN30120ACR	KEXN603A EPIQ Roll Cab
KWSN30144ACR	KEXN725A/KEXP725A EPIQ Roll Cabs
JKRRSC30R	KRSC31/KRSC33



KRBLT1023

Steel Work Surfaces

Steel work surface is coated with a substance similar to that used in truck bed liners. Extremely durable, easy to clean, chemical and abrasion resistant, and won't crack or peel. Installation hardware included.

Stock No.	Applications	Width, inches	Depth, inches
KRBLT1023	KRL1023, KRL1032, KRL7023, KRL1033	72 13/16	29
KRBLT1022	KRL1022, KRL7022	54 3/16	29
KRBLT722	KRL722	54 3/16	24
KRBLT1011	KRL1011, KRL7011, KRL1015, KRL7015	19 7/8	29
KRBLT711	KRL711, KRL715	19 7/8	24
KRBLT2418	KRA2418, KRA2432, KRA2496	73 3/8	24
KRBLT756	KRL756	36	24
KRBLT2411	KRA2422/KRA2411	54 3/4	23 11/16
KRBLT5311	KRA5311/KRA5318	53 3/4	19 1/2
KWSN3010ABL	KEXN603A EPIQ Roll Cab	120	30
KWSN3012ABL	KEXN725A/KEXP725A EPIQ Roll Cabs	144	30
KWSN3030ABL	KEBN301A EPIQ End Cabinet	30	30
KWSN3060ABL	EPIQ Series Roll Cabs	60	30
KWSN3068ACR	EPIQ Series Roll Cabs	68	30
KWSN3076ABL	EPIQ Series Roll Cabs	76	30
KWSN3084ABL	EPIQ Series Roll Cabs	84	30
KWSN3068ABL	EPIQ Series Roll Cabs	68	30



WARNING



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

TOOL STORAGE ACCESSORIES

Covers

The KAC series of storage unit covers can be used individually per unit or zipped together with the heavy duty nylon zipper to form a cover combination to match your tool storage combination. Magnets on the locker and end cab covers hold the door flap open to allow entry to the unit without removing the cover itself. Covers are available for roll cabs, roll cabs with top chests, roll cabs with workstation risers/overheads, left and right side end cabs and left and right side lockers.

EPIQ Series Roll Cab Covers

Cover Description	Black Stock No.
KERN60 Cover	KAC304860BK
KERN68 Cover	KAC304868BK
KERP76 Cover	KAC304876BK
KERN84/KERP84 Cover	KAC304884BK
KEXN603 Cover	KAC3048120BK
KEXN725/KEXP725 Cover	KAC3048144BK
60" EPIQ Roll Cab, Workcenter, 1 Locker	KAC307690BK
68" EPIQ Roll Cab, Workcenter, 1 Locker	KAC307698BK
76" EPIQ Roll Cab, Workcenter, 1 Locker	KAC3076106BK
84" EPIQ Roll Cab, Workcenter, 1 Locker	KAC3076114BK
60" EPIQ Roll Cab, Workcenter, 2 Lockers	KAC3076120BK
68" EPIQ Roll Cab, Workcenter, 2 Lockers	KAC3076128BK
76" EPIQ Roll Cab, Workcenter, 2 Lockers	KAC3076136BK
84" EPIQ Roll Cab, Workcenter, 2 Lockers	KAC3076144BK
60" EPIQ Roll Cab, Workcenter, 4 Lockers	KAC3076180BK
68" EPIQ Roll Cab, Workcenter, 4 Lockers	KAC3076188BK
76" EPIQ Roll Cab, Workcenter, 4 Lockers	KAC3076196BK
84" EPIQ Roll Cab, Workcenter, 4 Lockers	KAC3076204BK
60" EPIQ Roll Cab and Workcenter	KAC307660BK
68" EPIQ Roll Cab and Workcenter	KAC307668BK
76" EPIQ Roll Cab and Workcenter	KAC307676BK
84" EPIQ Roll Cab and Workcenter	KAC307684BK
60" EPIQ Roll Cab, Workcenter, Overheads, 2 Lockers	KAC3097120BK
68" EPIQ Roll Cab, Workcenter, Overheads, 2 Lockers	KAC3097128BK
76" EPIQ Roll Cab, Workcenter, Overheads, 2 Lockers	KAC3097136BK
84" EPIQ Roll Cab, Workcenter, Overheads, 2 Lockers	KAC3097144BK
60" EPIQ Roll Cab, Workcenter, Overheads, 4 Lockers	KAC3097180BK
68" EPIQ Roll Cab, Workcenter, Overheads, 4 Lockers	KAC3097188BK
76" EPIQ Roll Cab, Workcenter, Overheads, 4 Lockers	KAC3097196BK
84" EPIQ Roll Cab, Workcenter, Overheads, 4 Lockers	KAC3097204BK
60" EPIQ Roll Cab, Workcenter, Overhead	KAC309760BK
68" EPIQ Roll Cab, Workcenter, Overhead	KAC309768BK
76" EPIQ Roll Cab, Workcenter, Overhead	KAC309776BK
84" EPIQ Roll Cab, Workcenter, Overhead	KAC309784BK

- Heavy duty nylon zippers
- High quality 200 Denier® nylon
- Bright silver Snap-on® logo



KRL700 and Classic Series Storage Unit Covers

Cover Description	Red Stock No.	Black Stock No.
KRL722/KRA2411 Cover	KAC761	KAC761PC
KRL722/KRL791A or KRA2411/KRA2408 Combination Cover	KAC761791	KAC761791PC
Classic 73" Roll Cab/KRA2415 Chest		KAC241815PC
Classic 55" Roll Cab/KRA2410 Chest		KAC242210PC
KRL722/KRA2411/KRW7554/KRWL5435 Cover	KAC761WD	KAC761WDPC
KRL722/KRL791A/KRL712 Combination Cover	KAC761TL	KAC761TLPC
KRA2407 Roll Cab/KRA2405 Chest Cover		KAC240705PC
KRL756 or KRA2407 Cover	KAC756	KAC756PC
KRL756/KRL751, KRA2407/KRA2404 or Combination Cover	KAC756731	KAC756731PC
KRL711/KRL715 Cover (Left Side)	KAC711L	KAC711LPC
KRL711/KRL715 Cover (Right Side)	KAC711R	KAC711RPC
KRL712 Cover (Left Side)	KAC712L	KAC712LPC
KRL712 Cover (Right Side)	KAC712R	KAC712RPC
KRA2418 Cover also KRA2456 or KRA2432	KAC773	KAC773PC
Classic 73" Roll Cab/Chest Cover	KAC773793	KAC773793PC
KRA24182432/2496 with KRW7572 Cover	KAC773WD	KAC773WDPC

KRL7000 Series Covers

Cover Description	Red Stock No.	Black Stock No.
KRL7022 Cover	KAC7002	KAC7002PC
KRL7022/KRL1201 Combination Cover	KAC72121	KAC72121PC
KRL7022 with KRL7954/KRL5445 Cover		KAC702245PC
KRL7023A Cover	KAC7003	KAC7003PC
KRL7023A/KRL1203A Combination Cover	KAC73123	KAC73123PC
KRL7023A with KRL7972/KRL7245 (2) Cover		KAC702345PC
KRL7011A/KRL7015A/KRLV7015 Cover (Left Side)	KAC7011L	KAC7011LPC
KRL7011A/KRL7015A/KRLV7015 Cover (Right Side)	KAC7011R	KAC7011RPC
KRL7012/KRLV7012 Cover (Left Side)	KAC7012L	KAC7012LPC
KRL7012/KRLV7012 Cover (Right Side)	KAC7012R	KAC7012RPC

KRL1000 Series Covers

Cover Description	Red Stock No.	Black Stock No.
KRL1065 Cover	KAC1065	KAC1065PC
KRL1024/KRL1043 Cover	KAC1024	KAC1024PC
KRL1022 Cover	KAC1001	KAC1001PC
KRL1022/KRL1201A Combination Cover	KAC100112	KAC100112PC
KRL1022/KRL1201A/KRL1012A Combination Cover	KAC1001TL	KAC1001TLPC
KRL1022/KRL7954/KRL5445 Cover	KAC1001WD	KAC1001WDPC
KRL1022/KRL7954/KRL5445 Cover	KAC102245PC	
KRL1023/KRL1032/KRL1033 Cover	KAC1003	KAC1003PC
KRL1023 or KRL1032/KRL1203A Combination Cover	KAC13123	KAC13123PC
KRL1023 or KRL1032 with KRL7972/KRL7245 Cover	KAC1003WD	KAC1003WDPC
KRL1023/KRL7954/KRL5445 Cover		KAC102345PC
KRL1056 Cover	KAC1056	KAC1056PC
KRL1056/KRL1251 Combination Cover	KAC161251	KAC161251PC
KRL1011A/KRL1015A Cover (Left Side)	KAC1011L	KAC1011LPC
KRL1011A/KRL1015A Cover (Right Side)	KAC1011R	KAC1011RPC
KRL1012A Cover (Left Side)	KAC1012L	KAC1012LPC
KRL1012A Cover (Right Side)	KAC1012R	KAC1012RPC

Heritage Series Covers

Cover Description	Red Stock No.	Black Stock No.
KRA5000 Series/KRA2300 Series Roll Cab Cover/53" Roll Cabs	KAC5000	KAC5000PC
KRA5000/KRA2300 Series Roll Cab/Top Chest Cover/53" Roll Cab/Top Chest Combination	KAC530015	KAC530015PC
KRA5012 Locker Cover, Left Side	KAC5012L	KAC5012LPC
KRA5012 Locker Cover, Right Side	KAC5012R	KAC5012RPC
KRA4000/2000 Series 40" Roll Cab Cover	KAC4800	KAC4800PC
KRA4000/KRA2000 Series 40" Roll Cab/Top Chest Combination Cover	KAC48004810	KAC480010PC
KRA4000 Series 40" Roll Cab/Drawer Section/Top Chest Combinations	KAC48006010	KAC486010PC
KRA Series End Cabs Cover, Left Side	KAC4820L	KAC4820LPC
KRA Series End Cabs Cover, Right Side	KAC4820R	KAC4820RPC
KRA4008/KRA2007 Roll Cab Cover	KAC4007	KAC4007PC
KRA4000 Series 26" Roll Cab/Top Chest Combination Cover	KAC40074014	KAC40074014PC
KRA4059 Series	KRAC59	

Other Units

Cover Description	Red Stock No.	Black Stock No.
KRSC40/KRSC416/KRSC46 Carts		KACSC40APC
KRSC31/KRSC33		KACSC30PC
KRA6200 Road Chest Waterproof		KAC56200PCnot
KRA6210 Road Chest Waterproof		KAC6210PC



Protects drawers from dings and scratches. Adds a custom, personalized look to tool storage units. Installs easily. No trimming or fasteners required. Simply remove tape from underside of guard, align guard with drawer, snap in place and press firmly. Constructed from stainless steel with brushed or polished finish. Some sets are available in carbon fiber. Individual replacement guards are available.

Drawer Guards/EPIQ Series

Brushed Stock No.	Polished Stock No.	Application
KADGSERN602A	KADGPERN602A	KERN602A Roll Cabs
KADGSERN682A	KADGPERN682A	KERN682A Roll Cabs
KADGSERN762A	KADGPERP762A	KERN762A Roll Cabs
KADGSERP763A	KADGPERP763A	KERP763A Roll Cabs
KADGSERN842A	KADGPERN842A	KERN842A Roll Cabs
KADGSERP842A	KADGPERP842A	KERP842A Roll Cabs
KADGSERN843A	KADGPERN843A	KERN843A Roll Cabs
KADGSERP843A	KADGPERP843A	KERP843A Roll Cabs
KADGSECN602A	KADGPECN602A	KECN602A Top Chests
	KADGPECN682A	KECN682A Top Chests
	KADGPECN843A	KECN843A Top Chests
KADGSESN602A	KADGPESN602A	KESN602A Drawer Sections
	KADGPESN682A	KESN682A Drawer Sections
KADGSESN843A	KADGPESN843A	KESN843A Drawer Sections

Drawer Guards/KRL Series

Stainless Steel Drawer Guards/KRL Roll Cabs

Brushed Stock No.	Polished Stock No.	Application
KADG1022	KADGP1022	KRL1022(A-C)
KADG1023	KADGP1023	KRL1023(A-C)
KADG1056	KADGP1056	KRL1056(A), KRL1056B
KADG7022	KADGP7022	KRL7022(A-C), KRLP7022(A-C), KRL722(A-B)
KADG7023	KADGP7023	KRL7023(A-C)
KADGM756	KADGB756	KRL756(A-B)

Gloss black and matte black steel drawer guard sets available for some units.

Stainless Steel Drawer Guards/KRL Top Chests and End Cabs

Brushed Stock No.	Polished Stock No.	Application
KADG1011A	KADGP1011A	KRL1011A
KADG1201	KADGP1201	KRL1201, KRL1201A, KRL1202
KADG1203	KADGP1203	KRL1203, KRL1203A, KRL1203B
KADG1221	KADGP1221	KRL1221
KADG1232	KADGP1232	KRL1232
KADG1251	KADGP1251	KRL1251
KADG7011A	KADGP7011A	KRL711, KRL711A, KRL7011A
KADG731	KADGP731	KRL731, KRL751
KADG791	KADGP791	KRL791, KRL791A

Drawer Guards/KRA Series

Drawer Guards/KRA Roll Cabs

Brushed Stock No.	Polished Stock No.	Application
KADG5311	KADGP5311	KRA5311 Series Roll Cabs
KADG4008	KADGP4008	KRA4008 Series Roll Cabs
KADG4107	KADGP4107	KRA2306/KRA4107 Series Roll Cabs
KADG4813	KADGP4813	KRA4813 Series Roll Cabs
KADG4007	KADGP4007	KRA2007/KRA4007 Series Roll Cabs
KADG2432	KADGP2432	KRA2432 Series Roll Cabs
KADG2418	KADGP2418	KRA2418 Series Roll Cabs
KADG2411	KADGP2411	KRA2411 Series Roll Cabs
KADG2422	KADGP2422	KRA2422 Series Roll Cabs
KADG2496	KADGP2496	KRA2496/KRL1001(A) Series Roll Cabs

KRA Top Chests and End Cabs

Brushed Stock No.	Polished Stock No.	Application
KADG5315	KADGP5315	KRA5315 Series Top Chests
KADG5208	KADGP5208	KRA5208 Series Top Chests
KADG4114	KADGP4114	KRA4114 Series Top Chests
KADG4014	KADGP4014	KRA4014 Series Top Chests
KADG4810	KADGP4810	KRA4810 Series Top Chests
KADG4820	KADGP4820	KRA4820 Series End Cabs



KADGSHORT

KRA and KRL Drawer Guards/Individual Replacements

Brushed Stock No.	Polished Stock No.	Application	Length, inches
KADGNARROW	KADGPNARROW	KRL/Classic Narrow Drawer Guard	16
KADGWIDE	KADGPWIDE	KRL/Classic Wide Drawer Guard	32
KADGXWIDE	KADGPXWIDE	KRL/Classic Extra Wide Drawer Guard	50 1/2
KADGSWIDE	KADGPSWIDE	KRL/Heritage Super Wide Drawer Guard	69 3/16
KADGSHORT	KADGSHORT	Heritage Short Drawer Guard	12 1/16
KADGMEDIUM	KADGPMEDIUM	Heritage Medium Drawer Guard	22
KADGLONG	KADGPLONG	Heritage Long Drawer Guard	35 9/16

Use "KADGB" for gloss black; "KADGM" for matte black.



WARNING

• Read safety precautions on pages W1 to W4

TOOL STORAGE ACCESSORIES

Customization

Made of brushed stainless steel. Designed to protect the tool storage unit from solvents and floor cleaning solutions. Custom fit pieces are adhesively applied. Adds a fresh look to newer units. Also complements restoration of older units.

Masters Body Guard Sets

Stock No.	Application
KABG1022	KRL1022, KRL1001B, KRL7022, KRL7002
KABG1023A	KRL1023, KRL1003B, KRL7023(A)(B), KRL7003
KABG1024	KRL1024(A)(B)
KABG1032A	KRL1032(A)
KABG1032B	KRL1032B(C)
KABG1033	KRL1033(A)(B)
KABG722	KRL722, KRL761B
KABG1065	KRL1065(A), KRL7065(A)

EPIQ Body Guard Sets

Stock No.	Application
KABGSERN602A	KERN602 Series Brushed
KABGSERN682A	KERN682 Series Brushed
KABGSERN842A	KERN842 Series Brushed
KABGSERN843A	KERN843 Series Brushed
KABGSERP762A	KERP762 Series Brushed
KABGSERP763A	KERP763 Series Brushed
KABGSERP842A	KERP842 Series Brushed
KABGSERP843A	KERP843 Series Brushed
KABGPERN602A	KERN602 Series Polished
KABGPERN682A	KERN682 Series Polished
KABGPERN842A	KERN842 Series Polished
KABGPERN843A	KERN843 Series Polished
KABGPERP762A	KERP762 Series Polished
KABGPERP763A	KERP763 Series Polished
KABGPERP842A	KERP842 Series Polished
KABGPERP843A	KERP843 Series Polished



KABG series body guards shown installed on KRL7023A roll cab. Older style casters are shown on roll cab.



Drawer Front, "S", Magnetic

Brushed Stock No.	Polished Stock No.	Application
KADFMBS	KADFMPS	Magnetic Snap-on® S logo 10" x 6" fits narrow bottom drawers on all KRA & KRL Roll Cabs



Masters Series Stainless Steel Drawer Front Sets

Stock No.	Description
KADFKRLSTDA	Brushed Drawer Front Kit, 3 pc
KADFPKRLSTDA	Polished Drawer Front Kit, 3 pc
KADFP50X5	All Masters Top Drawer: KRA2422 Top Drawer

Classic and Masters Stainless Steel Drawer Fronts

- Brushed and polished stainless steel drawer fronts for Classic and Masters series roll cabs and top chests
- Fronts for 50" top drawers and 32" x 6" drawers feature a precision cut Snap-on logo in panel that allows the paint color to show through the logo
- Fronts for 16" x 10" deep drawers feature a precision cut Snap-on logo "S" in panel that allows the paint color to show through the logo
- Fronts for 32" x 4" and 16" x 4" drawers do not have any logo
- All drawer fronts are applied with double sided 3M® 300LSE tape with flanges and bending tabs to hold them in place

Brushed Stock No.	Polished Stock No.	Application
KADF2411	KADFP2411	Set: 50" x 4", 16" x 10", 32" x 6" Classic Drawers
KADF2418	KADFP2418	Set: 50" x 4", 16" x 10", 16" x 4", 32" x 6" Classic Drawers
KADF50X4	KADFP50X4	50" drawers on all Classic Series Roll Cabs
KADF32X6	KADFP32X6	32" x 6" drawers on all Masters and Classic Series Roll Cabs
KADF32X4	KADFP32X4	32" x 4" drawers on all Masters and Classic Series Roll Cabs and Top Chests
KADF16X4	KADFP16X4	16" x 4" drawers on all Classic Series Roll Cabs and Top Chests
KADF16X10	KADFP16X10	16" x 10" deep drawers on all Masters and Classic Series Roll Cabs

Stainless Steel Corner Guards, Classic Series

- Fits all Classic series roll cabs and top chests
- Available in brushed and polished stainless steel plus gloss black and matte black coated steel
- Designed to cover the Classic series front edges vertically (top to bottom)
- Custom wrench S stamped into top and bottom
- Applied with double sided 3M 300LSE tape and has a flange on top and bending tabs on the bottom to securely hold them in place



Brushed Stock No.	Polished Stock No.	Matte Black Stock No.	Application
KACG24RC	KACGP24RC	KACGM24RC	Classic Series Roll Cabs
KACG24TC	KACGP24TC	KACGM24TC	Classic Series Top Chests (No Lid)
KACG2410TC	KACGP2410TC	KACGM2410	Classic Series Top Chests with Lid

Use "KACGB" prefix for gloss black corner guards.

Customization



KADFP35X4



KADF35X8

Stainless Steel Drawer Fronts, Heritage Series

- Drawer front guards are available in brushed stainless steel and polished stainless steel (polished units contain "P" in part number)
- Each drawer and corner guard is applied with double sided 3M® 300LSE tape and with flanges and/or bending tabs to hold them in place

Brushed Stock No.	Polished Stock No.	Application
KADF35X8	KADFP35X8	Fits all KRA4107, 5311, KRSC46
KADF35X4	KADFP35X4	Fits all KRA4107, Top chest KRA4114 & KRSC46
KADF22X8	KADFP22X8	Fits all KRA2007, 4008, 4813 & 5319
KADF12X11	KADFP12X11	Fits 12" deep, narrow drawers on all Heritage

Carbon Fiber Drawer Fronts (Masters, Classic & Heritage)

Stock No.	Description
KADFC12X11	12" x 11" Heritage Drawer Front
KADFC16X10	16" x 10" Classic & Masters Drawer Front
KADFC16X4	16" x 4" Classic & Masters Drawer Front
KADFC22X8	22" x 8" Heritage Drawer Front
KADFC32X6	32" x 6" Classic & Masters Drawer Front
KADFC35X4	35" x 4" Classic & Masters Drawer Front
KADFC35X8	35" x 8" Heritage Drawer Front
KADFC50X4	50" x 4" Classic & Masters Drawer Front
KADFC50X5	50" x 5" Classic & Masters Drawer Front
KADFC50X6	50" x 6" Heritage 5311 Drawer Front
KADFC8X11	8" x 11" Drawer Front



Carbon Fiber Drawer Guards

	Stock No.	Description	
Sets	KACF2411	Carbon Fiber Drawer Guard Set KRA2411	
	KACF2410	Carbon Fiber Drawer Guard Set KRA2410	
	KACF2422	Carbon Fiber Drawer Guard Set KRA2422	
	KACF2418	Carbon Fiber Drawer Guard Set KRA2418	
	KACF5311	Carbon Fiber Drawer Guard Set KRA5311	
	KACF46	6 Piece Carbon Fiber Set for 35" Drawer, KRA Heritage Series, KRSC46, KRSC416	
	KACF1022	13 Piece Drawer Guard Set for KRL1022 Series Roll Cabs	
	KACF1023	22 Piece Drawer Guard Set for KRL1023 Series Roll Cabs	
	KACF722	11 Piece Drawer Guard Set for KRL722 Series Roll Cabs	
	KACF4107	7 Piece Drawer Guard Set for KRA4107 Series Roll Cabs	
	KACF4114	4 Piece Drawer Guard Set for KRA4114 Series Roll Cabs	
	KACF2410	KRA2410 Top Chest	
	Individual Replacements	KACFHWDIE	35" Heritage Drawer 1 Piece
		KACFHXWDIE	49" Heritage Drawer 1 Piece
KACFHMED		22" Heritage Drawer 1 Piece	
KACFHNRW		11" Heritage Drawer 1 Piece	
KACFCMED		Classic/Masters	
KACFCXWDIE		Classic/Masters	
KACFCNRW		Classic/Masters	



WARNING

- Do not open multiple drawers
- Read safety precautions on pages W1 to W4



KACGPHRC



KACGHRC

Rounded corners shown. Also comes in new version square corner KACG53RC and KACGP53RC

Stainless Steel Corner Guards, Heritage Series

- Corner guards are available in brushed and polished stainless steel
- Corner guards are designed to cover top to bottom vertically
- Custom wrench S machined into top and bottom
- Each corner guard is applied with double-sided 3M 300LSE tape and has a flange on top and bending tabs on the bottom to hold them in place

Brushed Stock No.	Polished Stock No.	Application
KACGHRC	KACGPHRC	Fits all Heritage roll cabs with rounded corners (2 sides included)
KACG53RC	KACGP53RC	Fits all Heritage roll cabs with square corners
KACGHRC	KACGPHRC	Fits all Heritage top chests with rounded corners (2 sides included)
KACG53TC	KACGP53TC	Fits all Heritage top chests with square corners

Gloss Black Steel Drawer Fronts

- Gloss black drawer fronts are made from powder coated steel
- Provide a nice contrast to HOT tool storage colors like Flat Black, White, Midnight Blue, Purple and Red
- Laser cut Snap-on® logo reveals paint color

Stock No.	Dimensions, inches	Application
KADFB50X4	50 x 4	Masters/Classic - Extra Wide Drawers
KADFB12X11	12 x 11	Heritage Series - Deep, Narrow Drawers
KADFB16X10	12 x 11	Heritage Series - Deep, Narrow Drawers
KADFB22X8	22 x 8	Heritage Series - Medium Width Drawers
KADFB32X6	32 x 6	Masters/Classic Series - Wide Drawers
KADFB35X4	35 x 4	Heritage Series and KRSC Series Roll Carts - Deep Drawers
KADFB35X8	35 x 8	Heritage Series and KRSC Series Roll Carts - Deep Drawers
KADFB50X5	50 x 5	Masters Series - Extra Wide Drawers
KADFB50X6	50 x 6	KRA5311 Series - Top Drawer
KADFB8X11	8 x 11	KRA2318/KRA5318 Series - Bottom Drawer

Gloss Black Steel Corner Guards

- Gloss black corner guards are made from powder coated steel
- Provide a nice contrast to HOT tool storage colors like Flat Black, White, Midnight Blue, Purple and Red
- Laser cut Snap-on "S" reveals paint color

Stock No.	Application
KACGB24RC	KRA2407, KRA2411, KRA2422, KRA2418 plus all other Classic Series Roll Cabs
KACGB24TC	KRA2404, KRA2408, KRA2412 plus all other Classic Series Top Chests
KACGB53TC	KRA2412 Only
KACGB53RC	All Square Corner F Series Heritage Roll Cabs
KACGBHRC	Heritage Series Roll Cabs with radiused corners
KACGBHTC	Heritage Series Top Chests with radiused corners
KACGB2410TC	KRA2405, KRA2410 and KRA2415 Only

TOOL STORAGE ACCESSORIES

Wheel Cover Sets

Wrench Wheel Cover Sets, Heritage Series

Stock No.	Description
KAWCR-6	Red, 6 pc
KAWCB-6	Black, 6 pc
KAWC-6	Chrome, 6 pc



Tool Storage Lighting



KEWLED4

LED Light Bars

- Automatic on/off: durable and strong contacts provide positive engagement
- Magnetic installation of the light bar and the power switch provides easy installation and maneuverability
- Create a lighting experience that outshines anything in the shop
- Top quality materials and construction
- Low energy use
- Best heat dissipation
- High output LED system uses application specific LED technology with a 3 year unlimited warranty

Stock No.	Useful Light Output (lumen)	LED Input Power (W)	System Input Power (W)	System Efficacy (lumen/W)
KEWLED2	540	6.6	8	67
KEWLED4*	1,733	21.7	25.5	68
KEWLED5*	2,080	26	30.6	68
KEWLED3P4**	1,733	21.7	25.5	68
KEWLED4P5**	2,080	26	30.6	68

*LEDs are in individual ports for premium light dispersion.

**LEDs are grouped with fewer ports for a more economical solution.

KEWLED Series Bars fit: EPIQ Series KEWN Work Centers, KEHN Overheads, KELN Lockers (KEWLED2). Masters Series KRL7972 (KEWLED5) and KRL7954 (KEWLED4).



KALED28X7R

LED Snap-on® Logo Display Panels

- Can be mounted to steel surface via included rare earth magnets
- Use AC or DC power comes with 110 V AC plug and battery pack
- Acrylic panel is dipped and coated for abrasion resistance

Stock No.	Size, inches	Description
KALED28X7R	28 x 7	Red Light
KALED28X7B	28 x 7	Blue Light
KALED28X7G	28 x 7	Green Light



KEWLEDFLEXL

LED Workstation Desklight KEWLEDFLEXL Flexible Workstation Desklight.

- 18" shaft, magnetic base, rechargeable 2,600 mAL Li-ion battery
- 110 V AC charger
- reat for carts



KALEDBLUE



KALEDRED

LED Light Kits

- 13" LED strips are lightweight and can be attached to any surface using 2 way soft tape
- LED strips can be connected in a straight line
- Connecting the LED strips with the included short connector cord allows the 13" LED strips to be placed around corners or at different levels from each other
- Each kit has a white 6 way terminal to allow up to 5 additional LED add on kits
- Kit includes (3) 13" LED strips, (2) short connector cords, (1) 6 way terminal and 2 way soft tape
- Add on kits contain (3) 13" LED strips, (2) short connector cords, (1) 6' cord and 2 way soft tape

Stock No.	Color	Stock No.	Color
KALEDWHITE	White	KALEDWHITE-1	White add on kit
KALEDBLUE	Blue	KALEDBLUE-1	Blue add on kit
KALEDGREEN	Green	KALEDGREEN-1	Green add on kit
KALEDRED	Red	KALEDRED-1	Red add on kit



KALED24

LED Light Box

KALED24 Stainless Steel LED Lighted Panel.

- 28" x 7" polished stainless steel case with laser cut *Snap-on* logo and a mirror like finish
- Internal LED system contains (2) 27" strips lined with high quality LEDs
- Use on inside top chest and roll cart lids plus back riser walls
- Polished stainless steel case with laser cut *Snap-on* logo
- 2 cool white extra bright internal LED strips pre-assembled in case
- White diffuser
- Wall outlet/switch adaptor included
- Compatible with U.S. and Canadian electrical requirements
- Bright LED lighting with low power use
- Includes LED Flexible Light Strip (2" x 27") and 110-240 V AC Power Adaptor with Switch

Logo and Racing Decals *(Background is not a part of decal.)*

Logo and racing decals show customers that you use the best while supporting Snap-on® Racing™ programs.

Stock No.	Description	Size, inches	Suggested Tool Storage Unit Color	Logo Color	Racing Color	Checker Color
SS2751A	Snap-on Logo Decal	43 x 8		White		
SS2752A	Snap-on Logo Decal	43 x 8		Black		
SS2753A	Snap-on Logo Decal	43 x 8		Silver		
SS2809A	Snap-on Logo Decal	43 x 8		Red		
SS3266A	Snap-on Logo Decal	23 x 4		White		
SS2231A	Snap-on Logo Decal	23 x 4		Silver		
SS2232A	Snap-on Logo Decal	23 x 4		Black		
SS2808A	Snap-on Logo Decal	23 x 4		Red		
SS2201A	Snap-on S Decal	13 x 8 1/2		White		
SS2240A	Snap-on S Decal	13 x 8 1/2		Black		
SS2241A	Snap-on S Decal	13 x 8 1/2		Silver		
SS2810A	Snap-on S Decal	13 x 8 1/2		Red		
SS2935A	Snap-on S Decal	23 x 15		White		
SS2936A	Snap-on S Decal	23 x 15		Silver		
SS2937A	Snap-on S Decal	23 x 15		Black		
SS2938A	Snap-on S Decal	23 x 15		Red		
SS2440B	Snap-on Racing Decal (Small)	17 x 6	Black	White	Red	Grey
SS2441B	Snap-on Racing Decal (Small)	17 x 6	Red/Green	White	Yellow	Black
SS2442B	Snap-on Racing Decal (Small)	17 x 6	Blue	White	Red	Black
SS2443B	Snap-on Racing Decal (Small)	17 x 6	Yellow/Orange	Black	Red	Black
SS3131B	Snap-on Racing Decal (Small)	17 x 6	White	Red	Yellow	Black
SS3132A	Snap-on Racing Decal (Large)	36 x 12	White	Red	Yellow	Black
SS3262A	Snap-on Racing Decal (Large)	36 x 12	Black	White	Red	Grey
SS3263A	Snap-on Racing Decal (Large)	36 x 12	Red/Green	White	Yellow	Black
SS3264A	Snap-on Racing Decal (Large)	36 x 12	Blue	White	Red	Black
SS3265A	Snap-on Racing Decal (Large)	36 x 12	Yellow/Orange	Black	Red	Black



SS3266A



SS2201A



SS2440B



SS2441B



SS2442B



SS2443B

Note: Decals shown on Suggested Tool Storage Unit Color.

Hand Tool Organization



A269C



A271B



A264A



63A5000



LSR1406



LSR3812A

Socket Rails and Clips

Stock No.	Rail Length, inches	Clip Size
A265A	7 3/8	1/4" drive
A267A	13 3/8	3/8" drive
A269C	10 3/8	3/8" drive
A270A	16 3/4	1/2" drive
A271B		1/4" drive (Pkg of 25)
A272A		3/8" drive (Pkg of 25)
A273A		1/2" drive (Pkg of 25)
A274C		3/4" drive (Pkg of 25)

A264A Socket Rail Hold Down Clip.

- Mounts to drawer, tote tray or wall board
- Snaps open to release socket rail
- Package of 10

63A5000 Hardware Clips Package.

- Assorted socket rail clips in bag
- Fits Slots-N-Dots™ system (included with workstation risers)

A278 Mounting Clips.

- 5/16 to 3/4"
- Screws into 1/8" holes
- Package of 10

A279 Mounting Clips.

- 5/8 to 1 1/4"
- Screws into 1/8" holes
- Package of 10

Socket Rails (with Quick Release Locking Clips)

- Push button, spring loaded clips provide for quick, easy release of socket even with greasy hands
- Extruded aluminum socket rail for light weight and durability
- Detent ball at bottom of clip permits clip to be easily positioned on rail
- Rail also features laser engraved Snap-on logo

Stock No.	Square Drive, inches	Clips	Rail Color	Overall Length, inches
LSR1406	1/4	6	Black	7 3/8
LSR1412	1/4	12	Black	10
LSR3812A	3/8	12	Black	12
LSR1213	1/2	13	Black	14



YA438B

Movable Peg Socket Rails

- 18" rails feature adjustable pegs to organize sockets
- Pegs can be stacked for extra storage
- Adhesive backed rail
- YA425B Socket Rail.** 1/4" square drive (20 pegs).
- YA438B Socket Rail.** 3/8" square drive (18 pegs).
- YA450B Socket Rail.** 1/2" square drive (14 pegs).

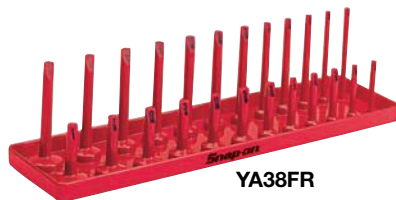


WARNING

• Read safety precautions on pages W1 to W4

TOOL STORAGE ACCESSORIES

Hand Tool Organization



YA38FR



BPMVSR14A



BPMVSR38A



BPMVSR12A

Socket Holders with Posts

- All sockets are easily visible
- Each post is marked for correct socket size
- Sockets are easily removed with one hand
- Use for hand, power and impact sockets
- High impact plastic resists oil and grease
- Socket must have a through hole (Some smaller Snap-on® sockets manufactured before 1983 do not have through holes)

Stock No.	Color	Square Drive, inches	Stores Socket Sizes (deep and shallow)	Overall Dimensions, inches
YA12FR	Red	1/2	3/8" to 1 1/4" in 1/16" increments	18 x 4 x 3 3/4
YA12MET	Grey	1/2	10 to 27 mm in 1 mm increments (excluding 26 mm)	20 1/2 x 3 1/2 x 3 3/4
YA14FR	Red	1/4	1/8" to 5/8" in 1/16" increments	9 x 2 1/8 x 2 1/2
YA14MET	Grey	1/4	4 to 15 mm in 1 mm increments	9 x 2 1/8 x 2 1/2
YA38FR	Red	3/8	1/4" to 1" in 1/16" increments	11 3/4 x 3 x 3
YA38MET	Grey	3/8	6 to 20 mm in 1 mm increments	13 1/8 x 3 x 3

Magnetic Vertical Socket Rails

- View socket sizes quickly and easily with these new magnetic vertical socket rails
 - Magnet backing (with protective foam covering) allows sockets to be attached to any metal surface
 - Allows sockets to be placed on rack so size is visible
 - Posts replaceable if lost or broken
 - Can be laid down flat in drawer if necessary
- BPMVSR14A Magnetic Vertical Socket Rail.** 1/4" drive.
BPMVSR38A Magnetic Vertical Socket Rail. 3/8" drive.
BPMVSR12A Magnetic Vertical Socket Rail. 1/2" drive.



A263B



A288B



KTA500

Multi-Row Socket Trays

- Steel panel units have socket rails attached and a carrying handle

A263B Socket Holder.

- Fits in top, below pallet
- For square drive tools to 4" deep
- Holds (4) 10 3/8" rows and (2) 3 1/2" rows of sockets
- 5 row organizer measures 10 1/8" x 8 1/4" (U.S. Patent No. 5,284,245)

A286C Socket Holder.

- 7 row organizer measures 14 1/2" x 11 7/16" (U.S. Patent No. 5,284,245)

A288B Socket Holder.

- 10 row organizer measures 14 1/2" x 17 3/16".
- 2 handles (U.S. Patent No. 5,284,245)

KTA500 Multi-Row Socket Tray.

- Holds up to 80 sockets in 1/4, 3/8 and 1/2" drive sizes
- Features 1 rail with (16) 1/4" drive clips, 2 rails with (16) 3/8" drive clips each and 2 rails with (16) 1/2" drive clips each
- Aligns sockets for fast, easy selection
- Use on roll carts and will fit into most roll cab/tool chest drawers
- Overall length of 20"
- 17 1/2" L x 7 9/16" W x 2 1/2" D
- Made of heavy gauge steel

KTA600 Multi-Row Socket Tray (Blue-Point).

- Holds up to 80 sockets in 1/4, 3/8 and 1/2" drive sizes
- 5 rails with (16) 1/4" drive clips, (32) 3/8" drive clips and (32) 1/2" drive clips
- Fits into most roll cab/tool chest drawers
- Sturdy handles on either side for easy carrying

BPSKTRLSY Multi-Row Socket Tray (Blue-Point®).

- Holds up to 80 sockets in 1/4, 3/8 and 1/2" drive sizes
- 4 rails with (20) 1/4" drive clips, (30) 3/8" drive clips and (30) 1/2" drive clips
- Low profile design to fit most drawer sizes
- Sturdy handle for either hanging or carrying the tray

YAUSET Socket Organizer.

- Accommodates up to 60 tools in 1/4, 3/8 and 1/2" drive sizes
- Complete economical socket system organizes sockets in the tool box drawer or on peg board; individual rails lift out for easy portability

- Includes ratchet extension storage

YA38UR 3/8" Drive Socket Organizer.

- Holds up to 15 sockets
- Economical socket organizer rail fully adjusts to fit a wide variety of socket configurations

YAUrcMH Horizontal Cart Mount Kit.

- Holds up to 30 sockets
- Easily attaches to the side of mobile tool carts

YAUrcMV Vertical Cart Mount Kit.

- Holds up to 15 sockets or wrenches
- Easily attaches to the side of mobile tool carts

Magnetic Socket Trays

- Hold metric or fractional sockets in these molded ABS plastic trays
- Handle for easy movement to job sites

MR1426 Magnetic Socket Tray.

- For 1/4" drive sockets
- 26 compartments
- Storage for 13 standard, 13 deep sockets

MR1426BL. Black.

MR3828 Magnetic Socket Tray.

- For 3/8" drive sockets
- 28 compartments
- Storage for 14 standard, 14 deep sockets

MR3828BL. Black.



MR1426



MR3828BL



KMAGBIT37B



KMAGBIT37R



YA38HTD

Magnetic Hex Bit Holders/Rubber Base (Blue-Point®)

- Magnetic base affixes to any ferrous metal without scratching surface
- Bits will stay in holder even in upside down applications
- Nontransferable magnetic material will not magnetize tools or damage onboard automotive computers or other related circuitry
- Resists most shop chemicals
- Rubber base won't mar finishes
- Holds up to 37 bits
- Bits not included

KMAGBIT37B Magnetic Hex Bit Holder. Black.

KMAGBIT37O Magnetic Hex Bit Holder. Orange.

KMAGBIT37R Magnetic Hex Bit Holder. Red.

Socket Driver Tray

YA38HTD Socket Driver Tray.

- Organizes the most commonly used 3/8" drive hex and TORX® socket drivers
- Use only with chrome hand socket drivers
- Sizes are clearly indicated on the holder
- Stores fractional hex drivers in 1/8 to 3/8" range (1/8, 9/6, 5/3, 3/1, 7/3, 1/4, 5/16 and 3/8"), metric hex drivers in 4 to 10 mm range (4, 5, 6, 7, 8, 9 and 10 mm) and TORX drivers from T27 to T60 sizes (T27, T30, T40, T45, T47, T50, T55 and T60)
- 3 open pockets for additional sockets
- Overall dimensions of 9 1/4" x 3 5/16" x 1/16"
- Made of durable, lightweight ABS plastic



KMAG14SD26B



KMAG38S12O



KMAG38D12R



KMAG38SD24B

Magnetic Socket Holders (Blue-Point)

- Magnetic base affixes to any ferrous metal without scratching surface
- Sockets will stay in holder even in upside down applications
- Nontransferable magnetic material will not magnetize tools or damage onboard automotive computers or other related circuitry
- Resists most shop chemicals
- Rubber base won't mark finishes

KMAG14SD26B Magnetic Socket Holder. Holds 13 shallow and 13 deep 1/4" drive sockets (1/4 to 9/16" and 4 to 14 mm). Black.

KMAG14SD26O Magnetic Socket Holder. Holds 13 shallow and 13 deep 1/4" drive sockets (1/4 to 9/16" and 4 to 14 mm). Orange.

KMAG14SD26R Magnetic Socket Holder. Holds 13 shallow and 13 deep 1/4" drive sockets (1/4 to 9/16" and 4 to 14 mm). Red.

KMAG38S12B Magnetic Socket Holder. Holds 12 shallow 3/8" drive sockets (up to 1"). Black.

KMAG38S12O Magnetic Socket Holder. Holds 12 shallow 3/8" drive sockets (up to 1"). Orange.

KMAG38S12R Magnetic Socket Holder. Holds 12 shallow 3/8" drive sockets (up to 1"). Red.

KMAG38D12B Magnetic Socket Holder. Holds 12 deep 3/8" drive sockets (up to 1"). Black.

KMAG38D12O Magnetic Socket Holder. Holds 12 deep 3/8" drive sockets (up to 1"). Orange.

KMAG38D12R Magnetic Socket Holder. Holds 12 deep 3/8" drive sockets (up to 1"). Red.

KMAG38SD24B Magnetic Socket Holder. Holds 12 shallow and 12 deep 3/8" drive sockets (up to 1"). Black.

KMAG38SD24O Magnetic Socket Holder. Holds 12 shallow and 12 deep 3/8" drive sockets (up to 1"). Orange.

KMAG38SD24R Magnetic Socket Holder. Holds 12 shallow and 12 deep 3/8" drive sockets (up to 1"). Red.



WARNING

- Read safety precautions on pages W1 to W4

TOOL STORAGE ACCESSORIES

Hand Tool Organization



BPTRYLAS



BPSSTRYLAS

Lock-A-Socket Trays (Blue-Point®)

BPTRYLAS Lock-A-Socket Tray.

- Holds a variety of drive sizes on one tray
- Tray measures 8 3/4" x 20"
- Sockets are locked by turning to the right 90°, unlocked by turning to the left 90°
- 8 clips are included for ratchets and other attachments
- Rubber pegs are located underneath for surface grip and protection
- Swivel handles included for easy carrying
- Manufactured from 16 gauge powder coated steel for extra strength
- Lock-A-Socket posts are available separately and are interchangeable for customization

BPSSTRYLAS Lock-A-Socket Tray. Same features as BPTRYLAS, manufactured from 16 gauge stainless steel for extra strength.

MTSLAS50LP25 Lock-A-Socket Posts. 1/2" drive posts for BPTRYLAS. Pack of 25.

MTSLAS38LP25 Lock-A-Socket Posts. 3/8" drive posts for BPTRYLAS. Pack of 25.

MTSLAS25LP25 Lock-A-Socket Posts. 1/4" drive posts for BPTRYLAS. Pack of 25.



MAGRAK10



WRM10



BPS14MWH



BPM14MWH

Magnetic Wrench Organizers (Blue-Point)

MAGRAK10 Magnetic Wrench Organizer.

- 10 angular slots provide storage for most wrenches
- A ridge at the base prevents wrenches from contacting tool storage surfaces
- Mount magnetically for instant wrench access
- Black

MAGRAK10R Magnetic Wrench Organizer. Red.

WRM10 Adjustable Wrench Organizer.

- Holds 10 wrenches
- Adjusts to hold a variety of wrench sizes
- Magnets secure individual wrenches to rack
- Individual magnets hold each wrench securely at its center allowing easy one hand removal
- Magnetic holders slide on aluminum rail to adjust wrench spacing
- Base magnets secure the wrench rack to tool storage unit or other ferrous metal surfaces
- Base is made of nonscratch, heavy duty anodized aluminum
- Red

WRM10-B Adjustable Wrench Organizer. Holds 10 wrenches. Blue.

WRM15 Adjustable Wrench Organizer. Holds 15 wrenches. Red.

BPS14MWH Magnetic Wrench Holder.

- Holds sizes 1/4" to 1" wrenches
- Strong magnets secure wrenches in place during movement
- Entire unit is magnetized to hold rack to drawer
- Blue

BPM14MWH Magnetic Wrench Holder. Same as BPS14MWH except it holds 8 to 21 mm wrench sizes. Black.



KRA15A



YA381A



YA389ABL

Wrench Organizers

Includes a pair of 24" long plastic organizers. Cut to desired length and attach to any drawer with foam backing.

KRA15A Wrench Organizer. For smaller wrenches.

KRA22A Wrench Organizer. For larger wrenches.

Wrench Organizers (Blue-Point)

- The wrench holding tabs on the YA389 series are the reverse of the YA381 series so 2 or more sets can be stored side by side with all wrenches facing forward
- 6 1/4" x 2 1/2" x 9 1/2" long

YA381A Wrench Organizer. Red, holds up to 12 wrenches.

YA381ABL Wrench Organizer. Black, holds up to 12 wrenches.

YA389A Wrench Organizer. Red, holds up to 12 wrenches.

YA389ABL Wrench Organizer. Black, holds up to 12 wrenches.



YA384SSG7B



YA384SSG7R



YA381SG12



YA389SG12

Soft rip Stubby Wrench Racks (Blue-Point®)

- Easily stores and organizes wrenches
- Fits all 2" deep drawers in Snap-on® tool storage units
- Mounting holes align with the Slots-N-Dots™ system on Snap-on workstation riser units
- Molded handle allows easy transport of loaded rack
- Red and black color schemes allow user to easily differentiate fractional from metric sizes
- Racks may be trimmed for use with smaller wrench sets
- Flexible plastic material will not corrode or mar wrench finish

YA384SSG7B Stubby Wrench Rack.

Holds 7 stubby wrenches. Black.

YA384SSG7R Stubby Wrench Rack.

Holds 7 stubby wrenches. Red.

YA384SSG10B Stubby Wrench Rack.

Holds 10 stubby wrenches. Black.

YA384SSG10R Stubby Wrench Rack.

Holds 10 stubby wrenches. Red.

Soft rip Wrench Racks

- Design holds wrench securely yet provides quick and easy release
- Easily stores and organizes wrenches
- Fits all 2" deep drawers in Snap-on tool storage units
- Mounting holes align with the Slots-N-Dots system on Snap-on workstation riser units
- Molded handle allows easy transport of loaded rack
- Red and grey color schemes allow user to easily differentiate fractional from metric sizes
- Racks may be trimmed for use with smaller wrench sets
- Flexible plastic material will not corrode or mar wrench finish
- Available in standard and reverse styles for convenient side by side mounting in tool drawers (U.S. Patent 5,638,964 applies)

Standard configuration (Red):

YA381SG8 Soft Grip Wrench Organizer.

Holds up to 8 wrenches.

YA381SG12 Soft Grip Wrench Organizer.

Holds up to 12 wrenches.

YA381SG15 Soft Grip Wrench Organizer.

Holds up to 15 wrenches.

Reverse configuration (Grey):

YA389SG8 Soft Grip Wrench Organizer.

Holds up to 8 wrenches.

YA389SG12 Soft Grip Wrench Organizer.

Holds up to 12 wrenches.

YA389SG15 Soft Grip Wrench Organizer.

Holds up to 15 wrenches.



YA207

Magnetic Nut Holder

YA207 Nut Holder.

- Flexible stainless steel body with pivoting magnetic head clips onto open end and box end wrenches
- Holds nut on sizes 3/8 to 3/4" (10 to 19 mm)



A277

Crowfoot Wrench Holder

A277 Crowfoot Holder.

- For 3/8" drive crowfoot wrenches
- Conveniently organize and store your crowfoot wrenches on this holder
- 2 pc design snaps apart for access to desired size
- 8 3/4" long



YA381FRA

Wrench Racks

- Specifically designed to hold up to 13 Snap-on wrenches from 7 to 19 mm sizes
- Wrench size is clearly visible on rack
- Fits 2" deep KRL drawers and most 2" deep KRA drawers
- Retaining tabs for convenient vertical mounting or carrying
- **YA381FRA Wrench Rack.** Red, holds 1/4 to 1" sizes.
- **YA381MET Wrench Rack.** Grey, holds 7 to 19 mm sizes.



WARNING

• Read safety precautions on pages W1 to W4

TOOL STORAGE ACCESSORIES

Hand Tool Organization

Drawer Liners/Adhesive Spray

JKRL35F Drawer Liner.

- Foam drawer liner can be cut to size for lining drawers, roll cab tops, etc. 48" x 25" sheets
- Pack of 10

JKRL35NS Drawer Liner.

- Non slip drawer liner can be cut to size for lining drawers, roll cab tops, etc. 48" x 25" sheets
- Pack of 10

KRL1F Drawer Liner.

- 1/16" thick black polyethylene can be cut to size for lining drawers, roll cab tops, etc
- 48" x 25" sheets (1 each)

AS6 Adhesive Spray.

- Ideal for securing KRL1 drawer liner
- 12 oz spray can
- Also available in 6 pack containers (order 6)
- Not included with sets



TCK1827BBR



TCK3627BUY

Tool Control Kits

- Custom design and organize your tool drawers
- Each kit contains 6 self adhesive sheets of top and base material, 1 cutting tool and 1 roll of tracing paper
- Top is 1/2" thick, base is 1/8" thick

Top is black, base is red.

TCK1827BBR Tool Control Kit. 18" x 27".

TCK3627BBR Tool Control Kit. 36" x 27".

TCK4020BBR Tool Control Kit. 40" x 20".

Top is blue, base is yellow.

TCK1827BUY Tool Control Kit. 18" x 27".

TCK3627BUY Tool Control Kit. 36" x 27".

TCK4020BUY Tool Control Kit. 40" x 20".

Magnetic Accessories



BLP2CANHLDR



BLP3CANHLDR



BLPPTHDR



KACUPHOLDA

Magnetic Can / Bottle Holder (Blue-Point®)

BLP2CANHLDR Magnetic Can/Screwdriver Holder.

- Ideal for use on side of tool box or service cart
- Holds 2 spray cans and 5 screwdrivers
- Spray can slot is 3" diameter
- 6 powerful cushioned magnets resist surface scratching
- Heavy gauge 0.80 mm black powder coated steel construction
- Weight: 1.92 lbs
- Dimensions: 5" W x 8.5" L x 5.12" H

BLP3CANHLDR Magnetic Can/Screwdriver Holder.

- Ideal for use on side of tool box or service cart
- Holds 3 spray cans and 7 screwdrivers
- Spray can slot is 3" diameter
- 8 powerful cushioned magnets resist surface scratching.
- Heavy gauge 0.80 mm black powder coated steel construction.
- Weight: 2.62 lbs
- Dimensions: 5" W x 11.75" L x 5.12" H

BLPPTHDR Magnetic Roll Towel Holder.

- Ideal for use on side of tool box or service cart
- Holds roll of shop towels (set of 2 holders)
- Powerful cushioned magnet resists surface scratching
- Heavy gauge 0.80 mm black powder coated steel construction
- Weight: 1.38 lbs Dimensions: 4" W x 5 1/8" L x 3 1/4" H (each piece)

KACUPHOLDA Magnetic Adjustable Can/Bottle Holder.

- Magnetic adjustable can and bottle holder can be used with cleaners, lubricants, spray paint cans, beverages and more
- Adjustable strap will fit oval or odd shaped bottles or cans from 2 to 3 5/8"
- Easily attaches to roll cabs, top chests, end cabs, carts or any other ferrous metal
- Large 1 5/8" x 4 1/2" magnet grips securely
- Minimum container height: 3 3/8"
- Available in red only

KRSA30



Magnetic Tool Silhouettes

KRSA30 Magnetic Tool Silhouettes.

- (30) 1" x 1 1/2" magnetic tool silhouettes
- Apply anywhere on tool storage unit to visually aid in tool organization
- Magnetic, leaves no sticky adhesive



KRDDMAG130

Flexible Magnetic Strip

KRDDMAG130 Flexible Magnetic Strip.

- Magnetic, adhesive backed strip allows easy drawer divider attachment
- 1" wide, 30' long

Magnetic Accessories



KAMM1212



KAMM126



KAMM612



KAMM122

Magnetic Panels

- Magnetic base attaches to riser, tool box, cart, creeper or any ferrous surface in seconds
- Tools are easily positioned on the magnetic panel
- Ideal for holding fasteners during removal and assembly operations
- High strength magnets
- Made from 16 gauge steel. 3/16" thick
- Will not magnetize tools

KAMM1212 Magnetic Panel. Measures 12" x 12".

KAMM126 Magnetic Panel. Measures 12" x 6".

KAMM612 Magnetic Panel. Measures 6" x 12".

KAMM122 Magnetic Panel. Measures 2" x 10 5/8".



YA162



KAMR123



YA209

Magnetic Bar Tool Holders

Magnet holds tools for easy access.

YA161 Magnetic Tool Bar Holder. Black finish, 24" long.

YA162 Magnetic Bar Tool Holder. Black finish, 13" long.

KAMR123 Magnetic Bar Tool Holder.

- Can magnetically mount to metal surface or can be screw mounted
- Measures 11 3/4" L x 2 1/4" W x 7/8" D
- Housing is black finish with chrome finished magnet plate

YA209 Magnetic Bar Tool Holder. Chrome finish, 24" long.



BPMST135



MAGWRENCH

BPMST135 Storage Tray (Blue-Point).

- Create additional workspace for your toolbox or roll cart
- Strong magnetic panel inside tray holds a variety of metal objects like sockets, nuts, bolts, extensions and parts
- Hangs easily on the side of a drawer or toolbox tray
- Made of heavy duty powder coated steel
- Measures 2" H x 2" D x 13 1/2" L

MAGWRENCH Magnetic Bar Tool Holder (Blue-Point).

- Industrial strength magnets keep it secured to a metal surface
- Holds tools for quick and easy access
- Chrome plated steel bar with chrome plated nylon ends
- Overall size is 20" (with approximately 12" of magnetic holding space)



MRB5A



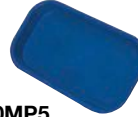
MRB10A



MRB12A



MRPB10MP5



MRB15A

Magnetic Trays and Dishes (Blue-Point®)

MRB5A Magnetic Bowl.

- Round stainless steel dish features powerful mounting magnet
- Securely holds small parts and tools
- 5 3/8" ID

MRB10A Magnetic Tray.

- Rectangular magnetic tray holds metal parts and small tools
- Magnetically attaches to any flat iron or steel surface
- Measures 9 1/2" x 5 1/2"

MRB12A Magnetic Tray.

- Rectangular magnetic tray holds metal parts and small tools
- Magnetically attaches to any flat iron or steel surface
- Features (3) 3 1/8" diameter magnets that are rubber coated to prevent scratching
- Measures 6 5/16" x 14 7/32"

MRPB10MP5 Magnetic Dish (5 pack).

- Each tray measures 9 1/2" L x 5 1/2" W x 1 1/8" D
- Molded plastic design coupled with rubber base helps prevent damage to vehicle finish
- Fully magnetized to hold contents and adhere to ferrous surfaces
- Use upside down or on the side of the vehicle. Each tray weighs 1.4 lbs
- Package of 5 trays includes one tray each in the following high visibility colors: red, orange, green, yellow and blue

MRB15A Magnetic Tool Tray.

- Keep tools or parts within easy reach with this magnetic tray
- Stainless steel with 4 large rubber based magnets on the bottom to resist scratching
- 11 5/8" L x 10 3/4" W x 1/2" D



BLPMPT6A



BLPMPT8A



BLPMPT10A



BLPMPT12A

BLPMPTSETA

Magnetic Parts Trays (Blue-Point).

- Tray attaches to a cart or box with full length magnets that cover the entire backside of tray
- Holds nuts, bolts, sockets or a variety of other tools and hardware
- Tray won't scratch paint and attaches to any flat metal surface
- Corrosion resistant finish

BLPMPT6A Magnetic Parts Tray. 6" long.

BLPMPT8A Magnetic Parts Tray. 8" long.

BLPMPT10A Magnetic Parts Tray. 10" long.

BLPMPT12A Magnetic Parts Tray. 12" long.

BLPMPTSETA Set. 1 each of BLPMPT6A, BLPMPT8A, BLPMPT10A and BLPMPT12A.



WARNING

• Read safety precautions on pages W1 to W4

TOOL STORAGE ACCESSORIES

Drawer Organization



KDDU2A



KDD2C-4A



KDD54-6



KDD4C-4

Plastic Drawer Dividers/2" Drawer Height

KDD52-6A Drawer Divider Rail. 5" long. Pack of 6.

KDD72-6A Drawer Divider Rail. 7" long. Pack of 6.

KDD122-6A Drawer Divider Rail. 12" long. Pack of 6.

KDD2-20A Drawer Divider Rail Clips. Rail divider clips.

Use to attach divider rails to perimeter rails or to other divider rails. Pack of 20.

KDD2C-4A Perimeter Rail Corner Clips. Perimeter rails and corner clips. Pack of 4.

KDD2L-2A Drawer Divider Rail. 35" long universal drawer divider rails. Can be cut to any length. Pack of 2.

KDDU2A Drawer Divider Set. Fits 1 drawer deeper than 1 1/2". Includes: perimeter rail set (4 pcs w/corner clips), 26" divider rails (3 each), 12" divider rails (3 each), 7" divider rails (3 each), 5" divider rails (3 each) and divider clips (14 each).

KDDP2A Perimeter Rail Set. 35" rails (4 each) and corner clips (4 each).

Stock No.	Drawer Style	Inside Drawer Dimensions, inches	Box Depth, inches
KDD402A	KRA medium	1 19/32 H x 21 W x 17 D	All KRA
KDD412A	KRA wide	1 19/32 H x 34 1/2 W x 17 D	All KRA
KDD702A	KRL narrow	1 19/32 H x 14 7/16 W x 21 1/2 D	24
KDD712A	KRL narrow	1 19/32 H x 14 7/16 W x 26 1/2 D	29
KDD722A	KRL medium	1 19/32 H x 30 3/16 W x 21 1/2 D	24
KDD732A	KRL medium	1 19/32 H x 30 3/16 W x 26 1/2 D	29

ALL SETS (except KDDU2A) - Each set is designed to fit specific KRA and KRL drawers. Set includes 4 pre-cut perimeter rails that fit along the inside wall of drawers, 4 corner clips to attach perimeter rails to each other and an assortment of pre-cut adjustable divider rails and divider clips that match the size of the specified drawer. KDDU2 SET ONLY - Universal set that fits any Snap-on tool storage drawer. Rails can be cut to desired length.



KRA17B

Plastic Drawer Dividers

KRA17B Drawer Divider.

- Partition drawers by cutting divider to desired length
- Attach to drawer with foam backing
- 24" long

KRA27B Drawer Divider.

- Same as KRA17B
- 31" long

Plastic Parts Tray Drawer Inserts

- Lightweight but tough reinforced polymer construction
- Each compartment has an area for labeling, if desired
- Use in tool drawers or cart to organize fasteners, clips, etc
- Fits into a 2" narrow drawer, such as on KRL722, KRA2411 and KRA2418 models



SPP804-2

SPP804-2 Parts Tray.

- 35 compartments
- 1 5/16" H x 14 9/16" W x 21 7/16" D

SPP804-1 Parts Tray.

- 14 compartments
- 1 5/16" H x 14 9/16" W x 21 7/16" D

Plastic Drawer Dividers/4" Drawer Height

KDD54-6 Drawer Divider Rail. 5" long. Pack of 6.

KDD74-6 Drawer Divider Rail. 7" long. Pack of 6.

KDD124-6 Drawer Divider Rail. 12" long. Pack of 6.

KDD4C-4 Perimeter Rail Corner Clips. Perimeter rails and corner clips. Pack of 4.

KDD4-20 Drawer Divider Rail Clips. Rail divider clips. Use to attach divider rails to perimeter rails or to other divider rails. Pack of 20.

KDD4L-2 Drawer Divider Rail. 35" long universal drawer divider rails. Can be cut to any length to fit any drawer storage need. Pack of 2.

KDDU4 Drawer Divider Set.

- Includes: perimeter rails that fit along the inside wall of drawers, 4 corner clips to attach perimeter rails to each other, and an assortment of adjustable divider rails and divider clips that fit any Snap-on® tool storage drawer

- All rails must be cut to desired length

KDDP4 Perimeter Rail Set. 35" rails (4 each) and corner clips (4 each).

Stock No.	Drawer Style	Inside Drawer Dimensions, inches	Box Depth, inches
KDD404	KRA medium	3 19/32 H x 21 W x 17 D	All KRA
KDD414	KRA wide	3 19/32 H x 34 1/2 W x 17 D	All KRA
KDD704	KRL narrow	3 19/32 H x 14 7/16 W x 21 1/2 D	24
KDD714	KRL narrow	3 19/32 H x 14 7/16 W x 26 1/2 D	29
KDD724	KRL medium	3 19/32 H x 30 3/16 W x 21 1/2 D	24
KDD734	KRL medium	3 19/32 H x 30 3/16 W x 26 1/2 D	29

KDD404, KDD414, KDD704, KDD714, KDD724, KDD734 SETS ONLY - Each set includes 4 pre-cut perimeter rails that fit along the inside wall of drawers, 4 corner clips to attach perimeter rails to each other and an assortment of pre-cut adjustable divider rails and divider clips that match the size of the specified drawer. KDDU4 SET ONLY - Same as other sets except rails are not pre-cut. All rails must be cut to desired length. Fits any Snap-on tool storage drawer.



KADDS2404
4" Drawer

KADDS2402
2" Drawer

Drawer Dividers, Steel

- Designed to be used in all KRL Masters Series (24 and 29" deep), Classic Series (24" deep) and KRA6200 Series road chests
- Simply place the side edges and front/back edges around the perimeter of the drawer and then locate middle dividers and divider tabs wherever they are needed (in 3, 5, 7, 10 and 15" width increments).

- Additional individual components for KRL1000 and KRL7000 Series (29" deep) available at www.snapon.com/toolstorage.

KADDS2404 Drawer Divider Kit, 4". Use on KRA2407, KRA2411, KRA2418, KRL722, KRL756 Series.

KADDS2402 Drawer Divider Kit, 2". Use on KRA2407, KRA2411, KRA2418, KRL722, KRL756, KRA6200 and KRA6210.

Workcenter Accessories



YA3089A



KAT12APV



KASR12APV



KALR12APV



KAS12PWRPV



KAMS18PV



KAT12PVA



KAFL148



ECU4250A



KALS15



KAHCK3



KAHK6



KAHLK3



KATR12PV

Workcenter Accessories

- Use these quality accessories to enhance the organization and storage capabilities of the KRL7000 workstation series
- All accessories designed to work with the Slots-N-Dots™ mounting system

Looped Tool Organizer (Blue-Point®). Loops hold screwdrivers, extensions, ratchets, pliers and other small hand tools.

YA3086A 6" long.

YA3123A 12" long.

YA3089A 9" long.

YA3182A 17 1/2" long.

KAT12APV Spray Can Rack (12").

- Holds 3 to 4 spray cans
- 12" long

KAT18APV Spray Can Rack (18").

- Holds 5 to 6 spray cans
- 18" long

KASR12APV Screwdriver Rack.

- Holds up to 7 screwdrivers or other tools
- 12" long

KALR12APV Literature Bin.

- Stores manuals, magazines, papers and other printed materials
- 12" deep

KAS12PWRPV Power Tool Rack.

- Holds 3 units
- Fits all slotted walls found on carts and workstation.

KAMS18PV Shop Manual Stand.

- Shop manual stand with page holder
- 18" wide

KAT12PVA Flat Utility Shelf.

- 12" wide shelf for miscellaneous items

KAFL148 Task Light.

- Screw mounts under the top riser/shelf of workstation
- Uses standard 40 W fluorescent bulb (not included) and 6' cord

ECU4250A (120 V AC) 15 W Fluorescent.

- Resists grease, oil and vapors
- Not immersible
- Plug in ballast, light reflectors, hanging hook, and 3 conductor extension cord included
- Floating, molded nylon sockets absorb shock for longer bulb life
- UL®/CUL® listed

ECU44255A Magnetic Utility Light Clamp.

- Features an expandable clamp on a magnetic base
- Can be used with any of our fluorescent utility lights (except ECU410)

KAPR24PVA Prybar Rack. Holds prybars up to 48". Mounts to all EPIQ, Masters, Classic and KRSC100 series. Black textured finish.

KALS15. 15" Laptop Stand. Mounts to *Slots-N-Dots* system.

KAHCK3. 3" Hook up accessory. Mounts to *Slots-N-Dots* system.

KAHK6. 6" Hook up accessory. Mounts to *Slots-N-Dots* system.

KAHLK3. 3" Loop accessory. Mounts to *Slots-N-Dots* system.

KATR12PV. 12" T-Handle rack. Mounts to *Slots-N-Dots* system.

Shelves, Trays and Racks

KRA412FPBO Folding Shelf.

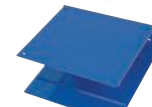
- Fits all KRA tool storage units
- Bracket slips over raised lip of roll cab
- Shelf is hinged to bracket, which has drilled mounting holes
- Full length piano hinge
- Folds down when not in use
- 18 1/4" x 18" x 1/4" rim
- Red



KRA412FPBO



KRA412FPC



KRA412FPCM

KRA412FPC Folding Shelf. Same as KRA412FPBO except black.

KRA412FPCM Folding Shelf. Same as KRA412FPBO except blue.

KRA412FPV Folding Shelf. Same as KRA412FPBO except textured black.

JKRR412AR Rubber Mat. Fits KRA412FPBO folding shelf.



WARNING

- Read safety precautions on pages W1 to W4

TOOL STORAGE ACCESSORIES

Shelves, Trays and Racks



KRA16AAPV



KR294AAPV



KRJC23AAPV



Tools shown not included

KA41X36



KR295



KR14



KRA19



1003X36PV

KRA16AAPV Valve Rack.

- (16) 11/16" holes provide easy access to valves
- Hang on roll cab or tool chest with 1/4" or more lip
- This handy unit hooks over the lip of any Snap-on® roll cab
- Black textured finish

KR294AAPV Prybar Rack.

- Hang up to 4 prybars or long tools with handles
- Notched angle plate keeps tools from shifting
- Suspend from roll cab or tool chest with 1/4" or more lip
- Black textured finish

KAPR24PVA Prybar Rack.

- Prybar rack for use on KRL1000, KRL7000, classic, KRSC100 and KRSC101 series mobile workstations hold large prybars
- Black textured finish

KR295 End Cab (Red). KR295PV Textured Black.

- End cabs offers 28 holes in various diameters for safe and secure storage of small prybars and other long tools
- Hole specifications; 8 holes (5/8"), 10 holes (3/4"), 4 holes (7/8"), 4 holes (1") and 2 holes (1 1/4")

KRJC23AAPV Creeper Hanger.

- Secures creepers to roll cabs
- Hanger hooks over lip of roll cab and screws down
- Adjustable to 4 different creeper widths
- 2 hook bolts and a lock rod are included so creeper can be padlocked (not included) (U.S. Patent 5,407,170)
- 16 13/16" length
- Black textured finish

KR14 Screwdriver Rack. Keeps frequently used screwdrivers accessible.

KRA19 Hang-on Parts Tray.

- Organize small parts or spray cans
- Hang on roll cabs or tool chest with 1/4" or more lip
- Also for use in drawers as storage trays
- Measures 15" x 3" x 2 1/4"

KRA20 Hang-on Parts Tray. Same as KRA19. Measures 25" x 3" x 2 1/4".

Sliding Trays. Provide additional work or storage surface.

KA41X36 Sliding Tray. Maximize your 36" drawer space. Fits common Heritage and KRSC series 36" drawers.

KA41X36-6 Tray Divider Set. Set includes 6 additional dividers for the KA41X36 sliding tray.

KA31X36 Sliding Tray. Maximize your 31" drawer space. Fits Masters and Classic series.

761XL36PV Sliding Tray. Fits KRL and classic. Measures 29 7/8" W x 6" D x 1 1/8" H.

1001XL36PV Sliding Tray. Fits KRL and classic. Measures 14 1/8" W x 6" D x 1 1/8" H.

1003X36PV Sliding Tray. Fits KRL. Measures 14 5/8" W x 6" D x 1 1/8" H.

Locking Bars



KRBL4



8-27336A

Locking Bars

Serve as a secondary locking system when ultimate protection is called for. Padlock must be purchased separately. Hardware included.

KRBL2 Lock Bar. 32" long. For use on KRL722, KRA2411, KRA2418.

KRBL4 Lock Bar. 36 13/32". For use on KRL1022 and KRL1023.

KRABL2 Lock Bar. 32" long. For use on all KRA Series Roll Cabs except KRA2400 series.

8-26836A Lock Bar. Hinged secondary lock bar fits side of low profile KRL roll cabs such as KRL756 series (similar to 8-27336A).

8-27336A Lock Bar. Fits all Heritage and Blue-Point® hinged manual lock bar. Secondary lock system uses padlock for extra security (not included).

Padlocks



ML1A



ML1504DA

Padlocks

Master Lock® padlocks. Brass cylinders, nickel/silver pin tumblers and brass locking levers for maximum locking protection.

ML1A Padlock. 1 3/4" steel case, 5/16" diameter.

ML3A Padlock. 1 1/2" steel case, 9/32" diameter.

ML7A Padlock. 1 1/4" steel case, 3/16" diameter.

ML1504DA Combination Padlock.

- Case hardened 9/32" steel shackle offers protection against cutting and sawing
- Secure 3 digit combination
- Automatic locking lever



TB10A



TB20A



TB30



TB40



TB50



CTTOTE



BPTOTE

Tote Bags

- Rugged, versatile tote bags are constructed from heavy duty 600 x 300 D-polyester
- Water resistant PVC backing
- Reinforced top hem
- Wide top opening for easy access
- Padded handles and shoulder strap
- Embroidered logos

TB10A Collapsible Tote Bag.

- Folds flat for convenient storage using Velcro® with metal snap corner closures
- Multiple interior and exterior pockets
- Fold down interior bin dividers
- Molded plastic bottom for strength
- Overall dimensions: 18" L x 8" W x 9" D

TB20A Tote Bag.

- Multiple interior and exterior pockets
- Removable plastic parts storage bin accessed via lower side storage pocket
- Overall dimensions: 15" L x 10 1/2" W x 12" H

TB30 Tote Bag.

- Ultimate small tool organizer
- Multiorganizing pockets
- Heavy duty zippers
- Overall dimensions 13" x 10" x 8"

TB40 Tote Bag.

- Lots of cargo space for air tools, etc
- Heavy duty shoulder strap
- Overall dimensions 17" x 9" x 11"

TB50 Tote Bag.

- Multipockets inside and out
- Easy grip handle
- Special hard body design
- Overall dimensions 20" x 11" x 9"

CTTOTE Tote Bag.

- Wide opening for easy access to tools
- Extra padding to protect tools
- Durable 600 Denier® outside for strength
- Interior pockets and compartments for tool organization
- Padded handles for comfortable transport
- Reinforced bottom for strength
- Six external pockets for extra storage
- Approximate inside bag dimensions, open: 18" L x 8" W x 11 1/2" D. EU - B

BPTOTE Tote Bag (Blue-Point®).

- Rugged and versatile
- Constructed from heavy duty 600 x 300 D-polyester
- Water resistant
- Embroidered Blue-Point logo
- Wide top opening for easy access
- Multiple interior and external pockets for tool organization
- Overall dimensions: 16 1/2" L x 10 1/2" W x 12 1/4" H



WARNING

• Read safety precautions on pages W1 to W4

TOOL STORAGE ACCESSORIES

Miscellaneous

Step Stool

KASS13 step stool/seat.

- Versatile step stool, seat and storage unit all in one
- Holds up to 305 lbs and has nonskid rubber grommets for stability
- Large interior storage capacity with built in tote tray
- Has a handle for mobility that folds flat when used as a stool
- 13" H x 22" W x 15" D



KASS13

Accessory Box

KRA444A Accessory Box.

- Lockable box mounts inside roll cab or tool chest for protection of valuables
- 8 1/4" x 4 3/4" x 1 1/4"

- Requires 2" minimum drawer depth

KRA444APV Accessory Box.

- Same as KRA444A with black textured finish



KRA444A

Floor Lock Kits

- For roll cabs that require better roll cab immobilization

KRFL6A Adjustable Floor Lock Kit.

- For KRL Masters series
- 29" deep, 54" wide and larger



KRFL6A

Leather Tool Pouches

YA869 Leather Tool Sheath (Blue-Point®).

- 1 pocket sheath attaches to any work belt
- 8 1/2" x 2"



YA869

Keychain (Blue-Point®)

GA155A Keychain.

- Spring retractable, 24" chain
- Clips onto belt or pocket



GA155A

Floor and Kneeling Mats



JKAFM3672DP

Anti Fatigue Diamond Plate Floor Mats

- Skid resistant chrome diamond plate mat surface
- Flexible anti-fatigue material with extra padding
- Durable, easy to clean and damage resistant

	Stock No.	Size, inches
Diamond Plate Anti-Fatigue Floor Mat	JKAFM3636DP	36 x 36
	JKAFM3648DP	36 x 48
	JKAFM3654DP	36 x 54
	JKAFM3660DP	36 x 60
	JKAFM3672DP	36 x 72
	JKAFM36102DP	36 x 102
	JKAFM36120DP	36 x 120

Kneeling Mats

MAT19PK Kneeling Mat.

- Kneeling mat is constructed from 3 layers of high density foam for comfort
- Black with Snap-on® logo
- Handle for ease of carrying
- Pack of 5

MAT13PK Kneeling Mat.

- Cushioned floor mat can help reduce fatigue, protect clothing and increase comfort
- Multilayered closed foam construction is durable and tear resistant
- Resistant to most shop chemicals
- Measures 8 1/2" x 13" x 1 1/8" thick
- Pack of 5

MAT38PK Kneeling Mat.

- Cushioned creeper mat can be used on a creeper or on the floor
- Multilayered foam construction is durable and tear resistant
- Resistant to most shop chemicals
- Measures 15 3/4" x 38 1/2" x 1 1/8" thick
- Pack of 5



JKAFM2436BK



JKAFM2448BR

Cushioned Floor Mats

- Exceptional anti-fatigue properties
- Eases lower back stress and leg and foot discomforts from prolonged standing on hard surfaces
- Under padding hugs the smoothest floor surfaces to prevent mat slippage
- Skid resistant diamond plate mat surface provides sure footing
- Mat resists most shop chemicals
- Graphics are inlaid PVC for greater wear resistance

	Stock No.	Size, inches
Black Mat with Red Snap-on logo	JKAFM2436BK	24 x 36
	JKAFM2448BK	24 x 48
	JKAFM2460BK	24 x 60
	JKAFM2472BK	24 x 72
	JKAFM3636BK	36 x 36
	JKAFM3648BK	36 x 48
	JKAFM3660BK	36 x 60
	JKAFM3672BK	36 x 72
Black Mat with Red Border/Red Snap-on logo	JKAFM2436BR	24 x 36
	JKAFM2448BR	24 x 48
	JKAFM2460BR	24 x 60
	JKAFM2472BR	24 x 72
	JKAFM3636BR	36 x 36
	JKAFM3648BR	36 x 48
	JKAFM3660BR	36 x 60
	JKAFM3672BR	36 x 72



MAT13PK



8-88HBRK



8-88RRK



Detent Kits

Detent kits for ball bearing slides. Kits include standard detents for normal use or firmer retrofit detents to help prevent unlocked drawers from inadvertently rolling open.

8-88CWRK Detent Kit. 2 pair of wide detents. Grey pair for increased stiffness. Off white pair for standard stiffness.

8-88HBRK Detent Kit. A pair of heavy duty standard cabinet member bumper kits for use with latch (black).

8-88HDRK Detent Kit. A pair of heavy duty cabinet member detent kits for use without latch (grey).

8-88HSRK Detent Kit. A pair of heavy duty intermediate member sequencing detent kits for use with/without latch (black).

8-88ANRK Detent Kit. A pair of narrow, firm stiffness detent kits for drawers without latch (grey).

8-88RRK Detent Kit. A pair of firm stiffness detent kits for over under slide used on KR Series Units (grey).

8-88ASNRK Detent Kit. A pair of narrow, standard stiffness detent kits for drawers without latch (black).

8-88SWRK Detent Kit. A pair of wide, standard stiffness detent kits (black).

8-88WRK Detent Kit. A pair of wide, firm stiffness detent kits (grey).

Ball Bearing Drawer Slides

8-05088ALRS Drawer Slide Set. Left/right slide kit with screws. For KRL700 series tool storage units.

8-05188ALRS Ball Bearing Slide Set. Left/right slide kit for 2400 series.

8-05288ALRS Ball Bearing Slide Set. Left/right slide kit with screws. For all narrow and wide drawers in KRA2000/KRA4000/KRA5000 series units and KRSC series carts.

8-05388ALRS Drawer Slide Set. Left/right slide kit with screws. For KRL1000/KRL7000 series tool storage units.

8-05488AS Ball Bearing Slide Set. Includes 2 slides and screws. For KRL712 series lockers and KRL7015 series end cabs.

8-05588AS Ball Bearing Slide Set. Includes 2 slides and screws. For KRL1012/KRL7012 lockers and KRL1015/KRL7015/KRLV7015 end cabs only.

KRL Series Drawer Control (Special Order)

Available for new KRL series roll cabs and top chests. Drawer control permits only 1 drawer per bank to be opened at a time, reducing the chance of the unit tipping. Existing units cannot be retrofitted. Special order.

Drawer Latches

10-185B Lock-n-Roll® Latch (Narrow Bank). Drawer latch for narrow bank drawers on KRL700/KRL1000/KRL7000 series tool storage units.

10-285B Lock-n-Roll Latch (Wide Bank). Drawer latch for wide bank drawers on KRL700/KRL1000/KRL7000 series tool storage units and KRA4000 series 40" wide drawers.

10-385B Lock-n-Roll Latch (Extra Wide Bank). Drawer latch for extra wide bank drawers on KRL700/KRL1000/KRL7000 series tool storage units.

10-485B Lock-n-Roll Latch (Narrow Bank). Drawer latch for narrow bank drawers on KRA4000 series tool storage units.

10-885B Lock-n-Roll Drawer Latch (Wide). Drawer latch for narrow bank drawers on KRA4000 series 26" wide and wide bank of 40" wide units.

10-01085A Lock-n-Roll Drawer Latch (Super Wide). Drawer latch for wide bank drawers on KRL1032B(C) and KRL1033(A) roll cabs.

10-01185A Lock-n-Roll Drawer Latch. Drawer latch for KRL1099).

Tool Storage Unit Maintenance

Touch-up Paint

Color	1/2 oz Bottle Stock No.	12 oz Spray Can Stock No.	PPG® Powder No.	PPG Ditzler Wet Spray No.
Red	PN2-83408	REP12A	AR320 Resin	73504
Black (High Gloss)	PN2-84208	PN12-84208	PCU-90200	9895 (9300)
Black (Textured)		PN12-86908	PCU-90106	9817
Royal Blue	PN286308	PN1286308	PCU-50134	19026
Cranberry	PN2-84508	PN12-84508	PCU-60139	51797
Ultra Yellow	PN2-87808	PN12-87808	PCU-30115	84199
Green Mica	PN286708	PN1286708	PCU-43100	47767
Deep Purple	PN2-87408	PN12-87408	PCU-60122	52560
Candy Apple Red	PN2-809508A	PN12-809508A	PCU-60137	902979
Electric Orange	PN2-809908A	PN12-809908A	PCU-30132	90621
Arctic Silver	PN2-810208A	PN12-810208A	PCU-73120	910517
Extreme Green	PN2-809808A	PN12-809808A	PCU-40134	906120
Tractor Green	PN2-85308	PN12-85308	PCU-40400	47403
White	PN285208	PN1285208	PCU-80103	91207
Midnight Blue	PN2-87308	PN12-87308	PCU-50117	191009
Flat Black	PN2-811308A	PN12-811308A	PCUP-90105	
Clear	PN2-CLEAR	PN12-CLEAR		



REP12A



PN1286308



PN286308



- Do not open multiple drawers
- Read safety precautions on pages W1 to W4

TOOL STORAGE ACCESSORIES

Tool Storage Unit Maintenance



Casters

Replacement casters for Snap-on® Tool Storage Roll Cabs.

Stock No.	Description	Capacity, lbs	Size, Inches	Material	Application
8-20739	Heavy Duty (Swivel)	900	6 x 2	GLA-NYL	KRL1056A, KRL722, KRL756A
8-20839	Heavy Duty (Rigid)	900	6 x 2	GLA-NYL	
8-30939	Extra Heavy Duty, ISO-Ride (Rigid)	1,700	6 x 2	GLA-Polymer	KRL1022A, KRL1033, KRL1024A, KRL1023A, KRL1043A, KRL1053A, KRL1065A, KRL7022A, KRL7023A, KRL7065A
8-30839 8-26939A-SL	Extra Heavy Duty, ISO-Ride (Swivel) Pivot Lock for 8-26939A Caster	1,700 -	6 x 2 -	GLA-Polymer -	
8-27980A	Heavy Duty (Rigid)	900	6 x 2	GLA-Polymer	KRL1056B, KRL722A, KRL756B
8-28039A	Heavy Duty (Swivel)	900	6 x 2	GLA-Polymer	
8-28139A	Medium Duty (Swivel)	600	6 x 2	Monoprene (Soft)	KRA2407, KRA2411, KRA2418, KRA2432, KRA4107D, KRA4813D, KRA5213D, KRA5319D, KRSC40A, KRSC41, KRA2422, KRA5311
8-28239A	Medium Duty (Rigid)	600	6 x 2	Monoprene (Soft)	
8-26139A	Medium Duty (Swivel)	330	5 x 2	Cast Iron w/Rubber	KRA2106A, KRA2107A, KRA2212, KRA2306, KRA2312, KRA4008E, KRSC31, KRSC40, KRA2005, KRA2007 (Replace all 4)
8-26439A	Medium Duty (Rigid)	330	5 x 2	Cast Iron w/Rubber	
8-30539A	EPIQ Caster, Swivel with Pivot Lock	2,000	7 x 2	GLA/NYL	KERP763B, KERP843B, KERP762B, KERP842B, KERN842B, KERN843B, KERN602B, KERN682B
8-30639A	EPIQ Caster, Rigid	2,000	7 x 2	GLA/NYL	
8-21839A	Donut Aluminum Hub Kingpinless (Swivel)	500	6 x 2	Aluminum w/Rubber	KRSC10, KRL756B, Classic, Heritage
8-21939A	Donut Aluminum Hub (Rigid)	500	6 x 2	Aluminum w/Rubber	KRL756B, Classic, Heritage
8-30439AR	Heavy Duty Swivel with Rigid Lock	900	8 x 2	Steel w/Polymer	KRSC100, KRSC40, KRSC41, KRSC46
8-31039A	Donut Aluminum Hub Standard (Swivel)	500	6 x 2	Aluminum w/Rubber	KRSC10, also fits Classic and Heritage
8-31139A	Soft Wheel, Black Horn (Rigid)	600	6 x 2	Monoprene (Soft)	Classic, Heritage, KRSC carts
8-31239A	Soft Wheel, Black Horn (Swivel)	600	6 x 2	Monoprene (Soft)	Classic, Heritage, KRSC carts
8-24239A	Soft Wheel, Swivel with Lock	330	5 x 1.25	Monoprene (Soft)	KRA2005, KRA2007
8-24339A	Soft Wheel, Rigid	330	5 x 1.25	Monoprene (Soft)	



KACAP6BK



KACAP6BU



KACAP6RD

Custom Caster Bolt Covers

- Fits all *Snap-on* casters current models and most past models
- Caps fit all current *Snap-on* roll cabs
- Also fits the bolt on the caster horn found on all EPIQ and Masters Series roll cabs
- Also fits Classic 6" x 2" caster bolt
- Machined aluminum with custom *Snap-on* wrench S marking
- 6 pc sets (2 for each swivel caster one for each rigid)
- Includes set screw for positive attachment (includes Allen Wrench for install)

KACAP6BK Powder Coated Black Caster Bolt Covers (6 pcs) Powder coated black aluminum.

KACAP6BU Anodized Blue Caster Bolt Covers (6 pcs) Blue anodized aluminum.

KACAP6RD Anodized Red Caster Bolt Covers (6 pcs) Red anodized aluminum.

Heavy Duty Brass Replacement Locks

- Can be used to replace all *Snap-on* round key (K-Series) locks
- Replace standard locks subject to abnormal usage, exposure to shop fluids or extreme temperature and humidity fluctuations
- Ideal for multishift/user situations
- Hard brass cylinder plug for a longer life cycle
- Highly finished brass cylinder plug for smoother operation
- More secure retention in the tool storage unit
- Tested to operate smoothly over 25,000 cycles
- 200 different cylinder plugs available as replacement items

K1HLA 1 lock assembly with 2 keys.

K2HLA 2 keyed alike lock assemblies with 2 keys.

K3HLA 3 keyed alike lock assemblies with 2 keys.

K4HLA 4 keyed alike lock assemblies with 2 keys.

K5HLA 5 keyed alike lock assemblies with 2 keys.

K6HLA 6 keyed alike lock assemblies with 2 keys.

K7HLA 7 keyed alike lock assemblies with 2 keys.



K1LA

Tubular Lock Assemblies

- High security tubular tool storage locks with rotating collars are harder to pick and are more resistant to vandalism
 - Key alike any number of *Snap-on* tool storage units
 - Older units can be converted to this new style lock
 - Each lock has an individual combination
 - Lock kits include mounting nut and lock washer
- K1LA** 1 lock assembly with 2 keys.
K2LA 2 keyed alike lock assemblies with 2 keys.
K3LA 3 keyed alike lock assemblies with 2 keys.
K4LA 4 keyed alike lock assemblies with 2 keys.
K5LA 5 keyed alike lock assemblies with 2 keys.
K6LA 6 keyed alike lock assemblies with 2 keys.
K7LA 7 keyed alike lock assemblies with 2 keys.

DIAGNOSTICS

Overview	402
ETHOS®	404
SOLUS Ultra®	405
Vantage PRO™	406
VERDICT™	407
VERUS®	408
Accessories	410
Heavy Duty	422



Scan to learn about innovations in diagnostics from Snap-on

www.snapon.com/1200/diagnostics



YOU NEED ANSWERS SNAP-ON HAS THEM

Snap-on® diagnostic tools help you quickly get to the heart of complex problems

Platforms

From scan tools and oscilloscopes to internet capable multifunction tools, *Snap-on* diagnostics can help you manage the repair and your business

SCAN TOOLS – ETHOS® offers OEM specific coverage for dozens of systems on 40 makes, while SOLUS Ultra® also includes real-world troubleshooter tips and timesavers



OSCILLOSCOPE — Vantage PRO™ puts guided component tests in your hands, plus the accuracy of over 8 million data samples per second

MULTIFUNCTION TOOLS —VERDICT™ offers the freedom of Wi-Fi®, Windows®, a wireless scope, scan tool and display tablet. VERUS® also adds a big ten-inch display screen and 4-channel ignition test capabilities

Software and Accessories

The right software and accessories help you take advantage of all the power your diagnostic tools are designed to deliver

SOFTWARE UPGRADES — Snap-on offers regularly scheduled software upgrades with up-to-date information on today's vehicles

EUROPEAN SOFTWARE — Get the in-depth scanner coverage that is critical for servicing European makes

ACCESSORIES — From adaptors to secure storage to advanced testing tools, a comprehensive line of accessories will help match the tool to your work

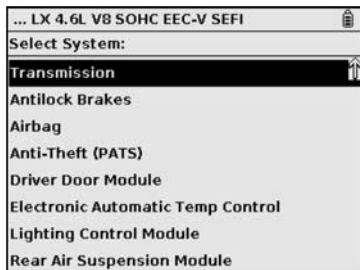


DIAGNOSTICS

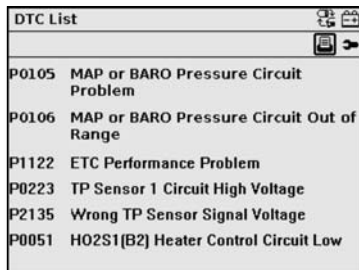
ETHOS® Scan Tool



EESC312 ETHOS Scan Tool. Gives VIN specific coverage that goes way beyond generic. First time users will love it for its straightforward operation, complete trouble code definitions and attractive price. Veteran users will love it for its lightning fast boot up and ability to quickly read and clear codes and graph live data.



VIN specific codes and live data graphing for major vehicle systems.



Read and clear OEM proprietary and global codes in just seconds with easy operation and simple code definitions.



Switch between English and Spanish language on the fly. Easy Y/N navigation saves time.

Features:

- 4.7" backlit monochrome display
- Fast 4 second boot up
- Easy year/make/model selection
- Bilingual (English and Spanish)
- Quick release protective display shield
- Graphs 4 live data parameters; or 9 parameters in digital mode
- User selectable hotkey for instant access to frequently used function
- Plug & play USB printing

- Store codes, screenshots and up to 230 frame movies for all data parameters
- Save and recall 20 previous vehicles
- 1983-later VIN specific codes and data for 33 U.S. and Asian makes*
- Deep coverage for dozens of systems: engine, transmission, hybrid control, transfer case, ABS, airbag, body, HVAC, instruments, TPMS, antitheft and more
- Optional software for Audi®, BMW®, Land Rover®, Mercedes®, MINI®, Volkswagen®, SMART Car® and Volvo® vehicles

Includes:

- VIN specific U.S. and Asian software
- U.S. and Asian adaptor set, 1996 to current
- Hands on training video and user guide
- AC and DC power adaptors
- USB cable for PC connection
- 6 AA batteries

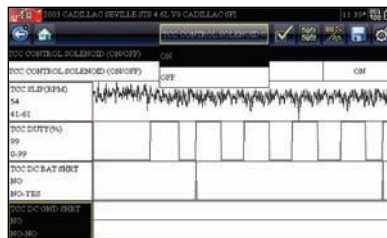
*Note: Some pre-1996 applications require optional adaptors



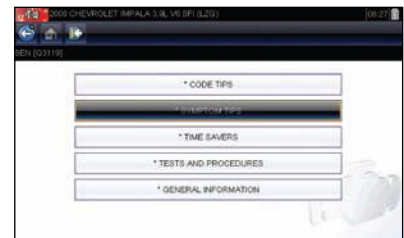
EESC318 SOLUS Ultra SCAN TOOL. Brings together a full range of scan tool functions, without any baggage to slow you down. No Personality Keys. No long boot ups. Combine that with the high resolution data graphing, detailed code definitions and OEM specific coverage and you have productivity and simplicity working together in perfect harmony.



Easy to read icons on big 7" display operate all functions from the 4 way keypad or the touch screen (even when wearing gloves).



Powerful bidirectional tests. Control vehicle functions while viewing live data results on the screen.



Exclusive Fast-Track® Troubleshooter provides expert code tips, symptom tips, tests and timesavers.

Features:

- Never stop to charge. "Steady charge" battery technology charges directly from vehicle
- Best in class display. Big 7" widescreen has 800 x 480 pixels; 50% larger than competitors
- Never change keys. A single, keyless adaptor covers all OBD-II applications
- Unique Cause and Effect Diagnostics. Control vehicle functions with bidirectional controls while viewing live data results on the screen
- Fast boot up. Ready to work in only 10 seconds
- Fast and easy icon navigation operates completely by touchscreen, or use the 4 way keypad and Y/N button
- Enhanced coverage for 1980-newer vehicles without the cost and complexity of factory scan tools
- Codes, live data (PIDS), functional tests, relearns, adaptations for 40 makes (European coverage optional)
- OEM specific coverage for dozens of vehicle systems, including the new systems techs need, like hybrids, TPMS, steering, body controls, EVAP, clean diesels and more

- *Fast-Track* Troubleshooter provides experience based fast fixes to get through repairs quickly. Real world advice from technicians, including code tips, symptom tips, tests and timesavers
- Read and clear trouble codes; Display detailed trouble code descriptions on screen
- Graph from 1 to 4 live data parameters (PIDs) simultaneously; view up to 7 data parameters in text mode
- Print/save/share/view results on PC via ShopStream™ Connect software
- Custom controls: user programmable shortcut key, PID trigger, zoom, freeze frame, custom data list, screen capture, movies and cursor functions
- Powerful functional tests and bidirectional controls provide control of vehicle systems for repair validation and a confident diagnosis

Includes:

- SOLUS Ultra scan tool
- Upgradable software on microSD card
- Keyless data cable for all OBD-II vehicle applications
- Li-ion battery pack
- 110 V AC power adaptor and cord
- USB cable for PC connection
- Custom fit blow molded carrying case
- Safety instructions; Quick start guide; User manual on CD

Note: Some applications require optional adaptors.



WARNING



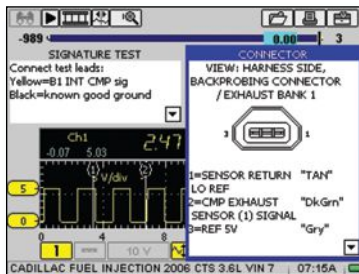
- Do not use in environment with explosive vapor
- Read safety precaution on pages W1 to W4

DIAGNOSTICS

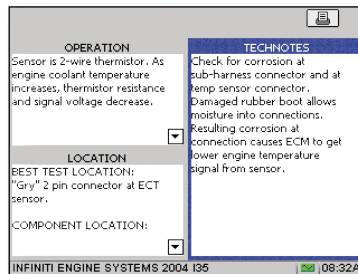
Vantage PRO™ Power Graphing Meter



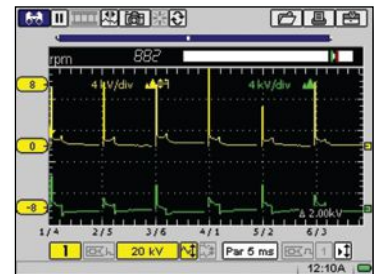
EETM303 Vantage PRO Meter. Unparalleled component diagnostics with a high speed scope and graphing multimeter. Get the answers needed for confident diagnosis including 2 million component tests, and 8 million samples per second of data. Compare live readings with known good data and sample waveforms. Simply select the vehicle and component and *Vantage PRO* will configure the meter and guide user through the test.



Graphing meter and advanced scope based test information for over 2 million components.



Guided test procedures include connector locations, component operations, meter presets, common faults and expected values.



Lab scope, ignition scope and graphing multimeter allow you to test everything from sensors to multicylinder ignition.

Features:

- Big 5.7" backlit color display is easy to read
- Removable high power NiMH battery for over 5 hours continuous use
- Fast boot; ready to go in 10 seconds
- Store over 1,000 screens of data
- Up to 57 hours of continuous recording
- Peak detect clearly displays glitches and dropouts other scopes miss

Component Test Information:

- Component database for 40 U.S., Asian and European makes, 1979 to current
- Navigate by year/make/model or select a specific component or system
- Coverage for sensors, solenoids, ignition, injectors and much more

- Tips and tutorials including component locator, test procedures, connection diagrams, presets and reference values
- Waveform Library; compare live data with known good values

2-Channel Lab Scope and Ignition Scope:

- Sample rate 8 megasamples/sec/channel; Bandwidth 3 MHz; Scales 0-100 mV to 0-200 V, 50 kV secondary ignition; plus dedicated shunt amps channel
- Sweep rate 50 microseconds to 20 seconds
- Secondary ignition scope with single/multicylinder, raster, parade and superimposed views (multicylinder adaptors optional)

Digital/Graphing Volt-Ohm Meter:

- Auto scaling; 0-100 mV to 0-400 V scales, 0-100 mA to 0-10 A scales; 10 Megohm high impedance, 50 mS glitch capture, min/max capture
- DC volts, AC volts, amps, ohms, duty cycle, frequency, pulse width
- Sweep rates from 1 sec to 5 min

Includes:

- Component database for U.S., Asian, European makes
- 2 shielded scope leads, 2 insulated alligator clips and 2 probe tips
- Hands on training video and user guide
- Protective carrying case
- Rechargeable NiMH battery pack
- Battery charging station
- AC power adaptor

VERDICT™ Modular Diagnostic & Information System



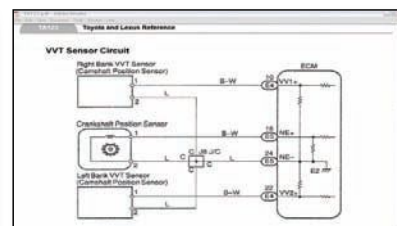
EEMS324 VERDICT Diagnostic System. Includes a wireless display, scanner and meter to let you be in more places at once. View all of your readings and control the scanner and scope remotely from the display. Have everything you want, use only what you need.



High resolution display shows detailed graphing of up to 12 data parameters for precise results.



Wireless Component Test Meter features automatic presets, guided test procedures and known good values and waveforms.



Hotlinks to Fast-Track® reference material including valuable TSBs, component locator and wiring diagrams.

Features:

- Wireless display, scanner and meter lets technicians be in more places at once
- Real world answers in your hands from anywhere in the shop: codes, live data, bi-directional controls, *Fast-Track* guided component tests, Internet and Troubleshooter
- OEM specific scanner coverage for 1980-newer vehicles
- High speed 2 channel scope and graphing meter
- Keyless scanner module for quick, simple connection
- Wi-Fi® and Internet browser to access web resources
- Windows® operating system
- Internal hard drive
- Touch screen operation

VERDICT D7 Display

Tablet Features:

- Big, bright 7" color touchscreen
- Windows multitasking
- Internet browser and Wi-Fi
- Wireless: Long-range Class 1 Bluetooth®
- 1 touch navigation shortcuts
- 60 GB internal hard drive
- Built-in 2 mega pixel camera
- Li-ion battery pack for up to 4 hours of continuous operation

VERDICT S3 Scanner

Module Features:

- Wireless remote control from the VERDICT D7 Display Tablet
- Keyless adaptor for OBD-II applications
- OEM specific coverage for 40 makes (European optional)
- *Fast-Track* Troubleshooter code tips, symptom tips and repair timesavers
- *Fast-Track* database of reference values, TSBs, wiring diagrams and more
- View up to 12 live data graphs at once

VERDICT M2 Scope/Meter

Module Features:

- High speed 2 channel lab scope and digital/graphing meter
- *Fast-Track* guided component tests for 40 U.S., Asian and European models
- Use alone or by wireless remote control from display tablet
- 20 megasamples/sec on each channel
- Scale range: 0-100 mV to 0-1000 V DC
- Sweep rate: 50 microseconds to 20 seconds. Up to 60 minutes in meter mode
- 2 MHz bandwidth
- 1/4 V A full color display
- High speed glitch capture
- 10 Megohm high impedance meter
- V DC, V AC, ohms, continuity, frequency, capacitance, duty cycle, pulse width and diode test
- CATIII and CATIV certified to 1,000 V
- NiMH battery pack for up to 12 hours continuous operation

Note: Some applications require optional adaptors.



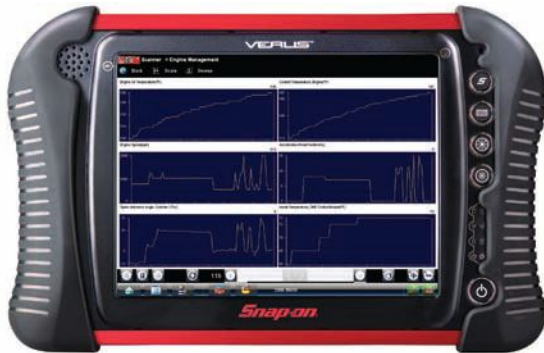
WARNING



- Do not use in environment with explosive vapor
- Read safety precaution on pages W1 to W4

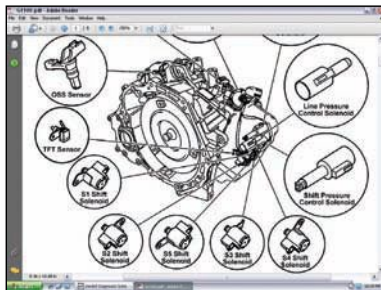
DIAGNOSTICS

VERUS® Wireless Diagnostic & Information System

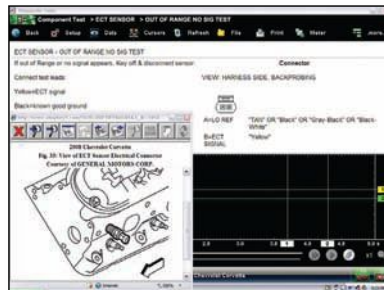


EEMS325

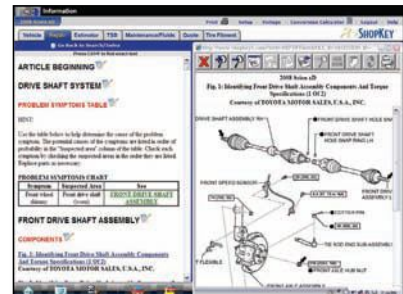
EEMS323 VERUS Wireless and Information System. Puts the answers you need at your fingertips, to manage the complete job from start to finish. With true Windows® multitasking, Wi-Fi® and an internet browser, you won't have to leave the service bay to access technical forums, OEM websites, online parts suppliers or the optional ShopKey® repair information system.



Complete *Fast-Track* Troubleshooter and quick links to the onboard reference database.



Windows XP® multitasking provides the flexibility to use and view several tools at once.



Direct links take you from the scan tool function to the integrated *ShopKey* Repair Information System (*ShopKey* subscription optional).

Features:

- 10.4" high resolution X A 1024 x 768 touchscreen color display
- Save time with one click shortcuts to diagnostic applications
- Replaceable Li-ion battery pack for up to 4 hours of continuous power
- 802.11b/g Wi-Fi and web browser
- Connectivity and expandable storage; V A, LAN, AUX, audio and USB ports
- Big 250 B hard drive to store test results, vehicle records and software applications

Scanner:

- Freedom to scan from anywhere in the bay with wireless scan module
- Custom data lists, freeze frame, PID sorting, pause, zoom, PID trigger, snapshot and cursor functions
- raph 16 live data parameters; or view up to 50 in digital mode
- Detailed code definitions, live data, functional tests, and relearns/adaptations
- OEM specific vehicle communication for 1980-newer models

- Optional coverage for European makes Audi®, BMW®, Land Rover®, MINI®, Mercedes®, SMART®, Volvo® and VW® vehicles

Component Test Information:

- Component database for 40 U.S., Asian and European makes, 1979-current
- uided diagnostics including component locator, test procedures, connection diagrams, presets and reference values
- Coverage for sensors, solenoids, ignition, injectors and much more
- Waveform Library compares live readings with known good values

4-Channel Lab Scope and Ignition Scope:

- Automatic scaling, presets and custom configurations for easy setup
- Sample rate 6 megasamples/sec; Bandwidth 3 MHz; scales 0-100 mV to 0-400 V, 50 KV secondary ignition
- Sweep rate 50 microseconds to 20 seconds
- Secondary ignition scope (multicylinder ignition adaptors optional)

Digital/Graphing Volt-Ohm Meter:

- Auto scaling; 0-100 mV to 0-400 V scales, 0-100 mA to 0-10 A scales; 10 Megohm high impedance, 50 mS glitch capture, min/max capture
- DC volts, AC volts, amps, ohms, duty cycle, frequency, pulse width
- Amps, vacuum, pressure functions (probes optional)
- Sweep rates from 1 second to 5 minutes

Includes:

- VIN specific U.S. and Asian Software
- U.S. and Asian adaptor set, 1996 to current
- 4 shielded scope leads, clips
- Hands on training video and user guide
- Protective carrying case
- Rechargeable Li-ion battery pack
- AC power adaptor

Note: Some applications require optional adaptors.

	Vantage PRO™	ETHOS®	SOLUS Ultra®	VERDICT™	VERUS® Wireless
					
	EETM303	EESC312	EESC318	EEMS324	EEMS325
Touchscreen Operation			X	X	X
10" Color Backlit Display					X
7" Color Backlit Display			X	X	
5.7" Color Backlit Display	X				
4.7" Monochrome Backlit Display		X			
Reads and Clears Codes & Data		X	X	X	X
Live Data Graphing Display		X	X	X	X
Functional Tests/Bidirectional Controls			X	X	X
Relearns & Initializations			X	X	X
Fast-Track Troubleshooter			X	X	X
Keyless Scanner Adapter			X	X	X
Wireless Scanner				X	X
2 Channel High Speed Oscilloscope	X			X	
4 Channel High Speed Oscilloscope					X
Ignition Scope	X				X
Graphing/Digital Multimeter	X			X	X
Wireless Scope/Meter				X	X
Bilingual (English/Spanish)		X			
High Capacity Internal Hard Drive				X	X
USB Port	X	X	X	X	X
Wi-Fi Enabled & Internet Browser				X	X
High-Energy Rechargeable Battery	X		X	X	X
Windows Operating System				X	X
Fast-Track Guided Component Tests (U.S., Asian and European)	X			X	X
OEM Specific 1980-newer U.S. Scanner Coverage		X	X	X	X
OEM Specific 1983-newer Asian Scanner Coverage		X	X	X	X
OEM Specific European Scanner Coverage		0	0	0	0
Global OBD-II Coverage for all Makes		X	X	X	X
User Programmable Function Key	X	X	X	X	X
ShopKey Repair Information System				0	0
ShopKey Manager SE Viewer				0	0

X = Standard Equipment 0 = Optional



WARNING



- Do not use in environment with explosive vapor
- Read safety precaution on pages W1 to W4

Accessories

VERUS®



EAK0294B21A VERUS Wireless Conversion Kit.

- Wireless Scan Module adds wireless freedom and keyless simplicity to EEMS323 Diagnostic and Information System
- Simplicity, no more searching for keys. Keyless scan module covers OBD-II applications with a single adaptor
- Scan wirelessly with remote control of the Scan Module; set codes, live data, functional tests, relearns and adaptations while moving freely around the vehicle
- Includes: Wireless scan module, OBD-II data cable, data cable for adaptors, USB cable and instructions
- Note: Requires VERUS diagnostic unit with Software Bundle 10.4 or higher



EAA0354L40A Velcro® Handgrip.

- Secure, adjustable Velcro strap makes it easy to hold VERUS diagnostic unit with one hand. (VERUS shown not included)

Silicone Protective Skins.

- Personalize and protect your VERUS diagnostic unit in choice of colors
- Custom fit, nonslip silicone rubber protective skin keeps VERUS diagnostic unit clean and safe

- EAC0101L70A1 - Black
- EAC0101L70A2 - Blue
- EAC0101L70A3 - Red (VERUS shown not included)

Stylus (3 pack).

- High polished chrome stylus or durable black nylon stylus
 - Soft tip to protect touchscreen
- 3-06206A01 - Nylon
3-07406A01 - Chrome

EAK0294B02A Charging Station with USB Hub.

- Secure benchtop workstation for VERUS diagnostic unit
- Charges VERUS battery when used with standard VERUS power adaptor
- Internal USB hub joins up to 4 USB devices when connected to VERUS diagnostic unit with standard USB cable (included). (VERUS shown not included)



EAE0059L07A External Battery Charger.

- Smart charger for up to 2 VERUS battery packs
- Automatic fast charge and trickle mode
- Includes 110 V AC power supply

EAA0354L12A VERUS Battery Pack.

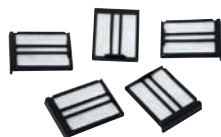
- Keep a diagnostic tool on duty all day long with a spare high energy Li-ion battery
- Built in LEDs show charge status

2-02539A 110 V AC Power Supply.

- Powers VERUS diagnostic unit and quick charges battery pack
- Requires 6-06321A power cord

6-06321 AC cord for 110 V Power Supply.

- Line cord for AC power adaptor



EAK0253B02A Replacement Air Filters (5 pack).

- Help to keep VERUS electronic components cool and clean



EAK0294B08A Maintenance Kit.

- Includes 3 screen protectors, 3 nylon touchscreen stylus and 5 air filters



EAC0101L69A1 Screen Protector Film (3 pack).

- Crystal clear sheets protect screen from scratches, solvents and dirt
- Easy peel and stick application

VERDICT™



EAA0365L01A



EAA0365L03A



EAA0365L06A

VERDICT Accessories

EAA0365L01A Docking Station.

- Convenient and secure charging station for the VERDICT Diagnostic System
- Keep the VERDICT Diagnostic System powered up and charged up all day long
- Uses standard power adapter included with VERDICT Diagnostic System
- USB hub to connect up to 4 USB devices
- 15 pin video connector displays VERDICT results on external big screen monitors
- Multiposition stand, as an angled folding stand, laid flat to fit in tool storage drawer or in a vertical orientation
- LED indicates when docking station is receiving power
- Simple drop-in docking for fast grab and go portability

EAA0365L03A Battery Pack.

- Removable battery pack for fresh power in a snap
- Keep VERDICT Diagnostic System on-duty all day long with a spare battery pack
- Calibrated power meter on VERDICT toolbar shows state of charge
- Multicell battery pack provides up to 4 hours of nonstop use
- Li-ion battery cells for long charge life, long cycle life and quick recharge

EAC0107L03A5 Screen Protector Sheets.

- Includes 3 removable screen protector sheets
- Easy peel and stick application
- Simply peel off old protector sheet and press on a new one
- Help to keep VERDICT touchscreen clean and protected
- Helps maintain touchscreen sensitivity
- Protects screen from scratches, solvents and dirt
- Crystal clear protection for optimum viewing inside the shop or outside in the sun

EAA0365L06A Battery Pack.

- Extended charge life battery pack
- Work longer without a recharge; 6 cell battery offers twice the charge life of standard 3 cell VERDICT battery
- Up to 8 hours of nonstop use with VERDICT D7 Display
- No extra bulk, fits in the standard VERDICT battery slot
- Removable battery pack for fresh power in a snap
- Keep VERDICT Diagnostic System on duty all day long with a spare battery
- Calibrated power meter on VERDICT toolbar shows state of charge
- Li-ion battery cells for long charge life, long cycle life and quick recharge



2-02839A AC Power Supply with Cord.

- For VERDICT D7 display (standard with VERDICT diagnostic unit)



EAK0301L01A1 AC Power Supply with Cord.

- For VERDICT M2 meter (standard with VERDICT diagnostic unit)



EAK0301L03A Replacement Scope/Meter Test Leads.

- With alligator clip set (standard with VERDICT diagnostic unit)



EEMS324PSA Pressure Transducer Adaptor.

- Adapts VERDICT M2 meter to EEPV302AL, EEPV302AT and EEPV302AH pressure transducers (not included)



WARNING



- Do not use in environment with explosive vapor
- Read safety precaution on pages W1 to W4

DIAGNOSTICS

Accessories

SOLUS Ultra®



SOLUS ULTRA Accessories

EAC0111L40A3 Screen Guards.

- Includes 3 removable screen protector sheets
- Simply peel off old protector sheet and press on a new one
- Helps maintain touchscreen sensitivity
- Protects screen from scratches, solvents and dirt for a clear view



EAX0068L10A Extended Length OBD-II Data Cable.

- Extend your diagnostic range and mobility with 9' OBD-II data cable



2-04650A SOLUS Ultra Spare Battery.

Protective Skin

- Soft, sturdy and flexible thermoplastic rubber
- Protects *SOLUS Ultra* diagnostic unit from dirt, grease and other automotive fluids; keep your tool looking like new
- Give *SOLUS Ultra* diagnostic unit a personal touch with your choice of colors
- Forms a nonslip grip over outside of your *SOLUS Ultra* platform
- Designed with access openings for screen, connectors and cooling vents for unimpeded operation

EAC0111L50A1 - Black

EAC0111L50A2 - Red



2-35466A 110 V AC Power Supply.

- Quick charges battery pack (power cord sold separately)



6-06321A AC Line Cord.

- Power cord for 110 V power supply

SOLUS PRO™



EAA0352L35A Replacement Display Window.

- Keep the display looking new and easy to see
- Easy snapfit replacement



Protective Skin

- Personalize and protect your *SOLUS PRO* diagnostic unit with custom fit, nonslip rubber skin

EAC0098L01A1 - Black

EAC0098L01A2 - Red

EAK0290L10A Screen Protector Film (5 pack).

- Crystal clear sheets protect screen from scratches, solvents and dirt
- Easy peel and stick application (*SOLUS PRO* diagnostic unit shown not included)



EAK0276B02A 110 V AC Power Supply.

- Provides power and quick charge battery pack



EETM303A01 Spare Battery Pack for SOLUS PRO.

- Keep a spare, high energy NiMH battery charged and ready to go

ETHOS®



EAC0093L01A Replacement ETHOS Data Cable.

- Replacement data cable for global OBD-II applications



EAC0089L07A Replacement ETHOS DB25/DB15 Adaptor Cable.

- Replacement data cable for OBD-I and OBD-II VIN specific applications



EAK0287L03A Replacement Display Window.

- Keep the display looking new and easy to see
- Easy snap fit replacement

EAK0287L04A Screen Protector Film (5 pack).

- Crystal clear sheets protect screen from scratches, solvents and dirt
- Easy peel and stick application (*ETHOS* diagnostic unit shown not included)



EAK0287L05D ETHOS Extended Adaptor Set.

- Optional OBD-II connectors for VIN specific U.S. and Asian vehicle applications



EAK0276L10A Replacement Display Window.

- Keep the display looking new and easy to see
- Easy snapfit replacement



EAK0276L11A Screen Protector Film (5 pack).

- Crystal clear sheets protect screen from scratches, solvents and dirt
- Easy peel and stick application (*Vantage PRO* diagnostic unit shown not included)



EAK0276B02A 110 V AC Power Supply.

- Provides power and quick charge battery pack



EETM303A01 Spare Battery Pack for Vantage PRO.

- Keep a spare, high energy NiMH battery charged and ready to go



WARNING



- Do not use in environment with explosive vapor
- Read safety precaution on pages W1 to W4

DIAGNOSTICS

Accessories



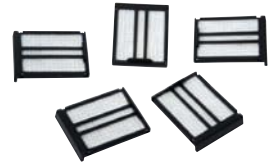
2-35466A 110 V AC Power Supply.
Adaptor powers *MODIS* and quick charges battery pack (power cord sold separately).



6-06321A AC Cord for 110 V Power Supply. Line cord for AC power adaptor.



EEMS301A01 *MODIS* Battery Pack. Keep *MODIS* on duty all day long with a spare high energy NiMH battery charged and ready to go.



EAK0253B02A Replacement Air Filters (5 pack). Helps to keep *MODIS* electronic components cool and clean.



Screen Protector Film (5 pack)
Crystal clear sheets protect screen from scratches, solvents and dirt. Easy peel and stick application.
EAK0253B20A - Pre-2006 *MODIS*
EAK0253L62A - 2006-later (with removable window)
(*MODIS* diagnostic unit shown not included)



EEMS301A02 External Battery Charger with 110 V AC Converter.

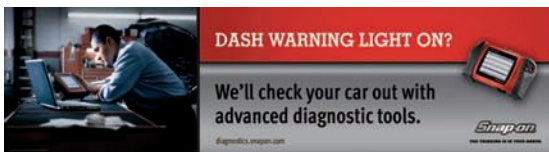
- Faster, cooler charge for long battery life
- Keep a spare battery on charge, ready for action
- Includes 110 V AC power supply and cord.

Service Banners

Service Banners

2 H x 8 W.

Show your customers that the shop is well equipped and qualified with these sturdy reinforced vinyl banners.



EAZ0003B58B *MODIS* Banner



EAZ0003B66A *MODIS* Banner (Spanish)



EAZ0042B17A ShopKey® Banner



EAZ0063L28A VERDICT™ Service Banner



EAZ0060L19A SOLUS PRO Banner (Spanish)



EAZ0042B18A VERUS™ Banner



EAZ0075L22A SOLUS Ultra® Banner

Scan Tool Accessories: Specific Applications Listed Below



EAA0355L46C Replacement OBD-II Key Adaptor.

- For U.S. and Asian vehicle applications
- Accepts "K" personality keys
- Fits VERUS®, MODIS™ and SOLUS PRO™ diagnostic units



EAX0066L50A Replacement Data Cable.

- For connection between scan tool and vehicle adaptors
- For VERUS, MODIS, SOLUS PRO and SOLUS Ultra® diagnostic units only



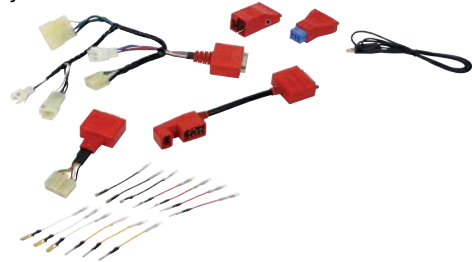
EAX0066L30A OBD Data Cable Extension.

- Extend scan tool reach by 6'
- Fits VERUS, MODIS, SOLUS PRO and ETHOS® diagnostic units



EAA0355L68A DL-16 Key Adaptor-European Vehicles.

- Replacement adaptor for European vehicle applications
- Accepts "S" personality keys
- Fits VERUS, MODIS, SOLUS PRO and ETHOS diagnostic units



EAK0288B04B OBD-I Vehicle Adaptor Kit 2.

- For U.S. and Asian applications
- Includes: Chrysler1, Chrysler2, Multi2, Jeep1, Hyundai2 adaptors, ground leads and jumper leads
- Fits VERUS, VERUS Wireless, VERDICT™, SOLUS PRO, SOLUS Ultra, MODIS and ETHOS diagnostic units



European Vehicle Adaptor Kit

EAK0301B07B

- Fits VERUS Wireless, VERDICT, SOLUS Ultra diagnostic units

EAK0267B01H

- Fits VERUS, MODIS, SOLUS PRO, ETHOS diagnostic units
- European vehicle adaptor kit
- Includes VW1, MB1, MB2A, BM1B adaptors (includes keys where applicable)
- Requires European Vehicle Software Activation
- Covers the most popular 1992-newer European vehicles

EAK0294B34A Key Kit for Land Rover® vehicles.

- Set of personality keys required for complete Land Rover coverage with VERUS, MODIS, SOLUS PRO and ETHOS diagnostic units



EAK0301B08A OBD-I Vehicle Adaptor Kit 1.

- OBD-I vehicle adaptor kit includes the most U.S. and Asian vehicles
- Kit includes data cable and the: Multi1, Ford1B, Ford4, T™1, Toyota1, Toyota2, Nissan1, Nissan2, Mazda1, Honda1, Mitsubishi1 adaptors
- Optional for VERDICT and SOLUS Ultra



EAX0068L01A Replacement Data Cable for OBD-I and European Adaptor Applications.

- Fits VERUS Wireless, VERDICT and SOLUS Ultra diagnostic units



EAX0068L00B Replacement OBD-II Data Cable.

- Fits VERUS Wireless, VERDICT and SOLUS Ultra diagnostic units



WARNING



- Do not use in environment with explosive vapor
- Read safety precaution on pages W1 to W4

DIAGNOSTICS

Scope & Meter Accessories: VERUS®, VERUS Wireless, MODIS™ & Vantage PRO™ only



- Pressure Transducer Kits.**
- Record, plot and monitor pressure in real time
 - Typical applications include ABS, PS, transmissions, hydraulics and fuel systems
 - VERUS, Vantage PRO and MODIS require EEMS301A05
 - VERDICT requires EEMS324PSA
 - EEPV302AL** - 0-100 psi
 - EEPV302AT** - 0-500 psi
 - EEPV302AH** - 0-5000 psi



- EAX0024B40A Transducer Y Adaptor Cable.**
- Enables simultaneous use of 2 pressure transducers for multiple point comparison testing



- EETA108B Extra Long Scope Lead Set (2 pack).**
- 10' leads extend the reach of scope/meter leads for testing hard to reach components



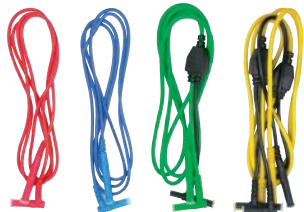
- EETA308D Low AMP Probe.**
- Hall effect technology gives accurate nonintrusive circuit testing
 - Perform precision testing of parasitic draw, injectors, pumps, relays, and more
 - 20/60 A ranges



- EEMS301A05 Split Lead Adaptor.**
- Enables simultaneous use of 2 pressure transducers and rpm pickup
 - Fits VERUS, VERUS Wireless, Vantage PRO and MODIS



- EESX306A Waveform Demonstration Tool.**
- Versatile scope training/demo tool
 - Use with any scope
 - Simulates good waveforms, bad waveforms and glitches
 - Square wave, variable duty, FI pattern, AC signal, secondary ignition pattern
 - Adjustable frequency, voltage, rpm and amplitude



- Test Leads.**
- Shielded, soft, flexible leads for meter and scope measurement
 - Stackable, right angle ground plug attached
 - 6-03022A** - Channel-1 (Yellow)
 - 6-03122A** - Channel-2 (Green)
 - 6-03222A** - Channel-3 (Blue)
 - 6-03322A** - Channel-4 (Red)



- Alligator Clips.**
- Spring loaded clips provide secure, insulated connection for meter and scope measurements
 - 2-06433A1** - Black
 - 2-06433A2** - Red
 - 2-06433A3** - Blue
 - 2-06433A4** - Yellow
 - 2-06433A5** - Green



- MT3000430ASR Backprobe Adaptors.**
- Used for adapting wire harness terminals to alligator clip type test leads
 - Helps prevent accidental grounding



- EAX0024B30A 6' Transducer Cable Extension.**
- Extends the reach of EEPV302AL/AT/AH pressure transducers by 6'

Scope & Meter Accessories: VERUS®, VERUS Wireless, MODIST™ & Vantage PRO™ only



Multi-cylinder Secondary Ignition Scope Adaptors

Exclusive kV ignition adaptors make for easy connection and testing of secondary ignition on coil-on-plug (COP) and coil-in-cap (CIC) systems. Custom fit to vehicle ignition systems. Requires EAK0294B09A ignition scope lead kit.

EAC0056L00A General-purpose COP/CIC Single Flag Pick-up. Single cylinder pickup. Use with 3 flag pickup for V8 engines.

EAC0056L02A General-purpose COP/CIC Three Flag Pick-up. 3 cylinder pickup. Use 2 for V6 engines or use 2 with single cylinder pickup for V8 engines.

EAC0056L03A General-purpose COP/CIC Stick Pick-up. For inline 4 cylinder engines.

EETM306A03 COP-1 Ignition Pick-up for Ford® Vehicles.

EETM306A04 COP-2 Ignition Pick-up for Chrysler® Vehicles.

EETM306A07 COP-3 Ignition Pick-up for VW®/Audi® Vehicles.

EETM306A08 COP-4 Ignition Pick-up for Acura®/Honda®/Isuzu® Vehicles.

EETM306A09 COP-5 Ignition Pick-up for Volvo®/BMW® Vehicles.

EETM306A10 COP-6 Ignition Pick-up for Mercedes® Vehicles.

EETM306A11 COP-7 Ignition Pick-up for Mercedes Vehicles.

EETM306A12 COP-8 Ignition Pick-up for BMW Vehicles.

EETM306A13 COP-9 Ignition Pick-up for Lexus® Vehicles.

EETM306A14 COP-11 Ignition Pick-up for Chrysler/Jeep®/Lexus/Toyota® Vehicles.

EETM306A06 CIC-1 HEI CIC Pick-up for GM® Vehicles.

EETM306A05 CIC-2 CIC Pick-up for Toyota/Honda Vehicles.



EAK0294B09A Ignition Scope Lead Kit.

- For multicylinder secondary ignition testing
- Includes inductive rpm pickup trigger, coil adaptor lead and secondary kV clip on probe
- Ideal for distributor systems, and for COP/CIC systems using optional COP/CIC adaptors

EETA309A15 SIA 2000 Multi Ignition Adaptor.

- Ideal for waste spark ignition systems up to 8 cylinders
- Simply clamps directly to plug wires
- Also for COP/CIC systems (COP/CIC adaptors sold separately)



WARNING



- Do not use in environment with explosive vapor
- Read safety precautions on pages W1 to W4

DIAGNOSTICS

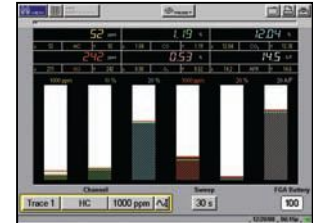
5-Gas Analyzer: VERUS®, MODIS™ or PC



EEEE305A

EEEE305A FGA Flexible Gas Analyzer.

- Completely portable 5-T_{ms} Analyzer with rechargeable internal battery
- Exhaust gas analysis helps pinpoint engine, emissions, catalytic converter and related system problems
- Live graphing and digital display of CO, O₂, CO₂, HC, NO_x, Air/Fuel ratio and Lambda
- Heavy duty sensors with automatic water removal system
- Includes probe, hose, power adaptors and RS-232 cable
- VERUS and PC applications also require EEEA305ASW software sold separately



HHGA5A

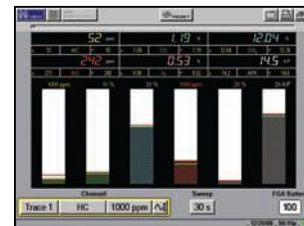
Hand Held Gas Analyzer

HHGA5A Hand Held Gas Analyzer Kit (5 Gas).

- Fully portable 5-T_{ms} Analyzer goes anywhere, can be used anywhere
- 110 V AC and 12 V DC powered
- The internal rechargeable battery provides up to 1 hour use
- Ideal for road testing and mobile use
- Measures exhaust emissions for CO, CO₂, HC, O₂, NO_x and AFR/Lambda
- Provides an instant assessment of an engine vehicle exhaust and catalytic converter
- MODIS, VERDICT™ and VERUS Link for enhanced real time viewing
- Add a 5-T_{ms} Analyzer function to MODIS, VERUS and VERDICT
- Set up required with included software on USB stick
- Gather all the evidence required for effective and accurate vehicle diagnostics on one screen in real time
- T_{ms} Analysis

- Component tests
- Scope readings
- Digital graphing function
- Scanner results
- View, graph, save and recall data
- Monitor and reduce vehicle emissions; improve driveability and fuel efficiency
- Truly handheld about the size and weight of a DMM offering true portability
- Compatible with gasoline, CN™, propane and diesel fuel types
- Very sensitive and pulls only 1/14th the exhaust volume of competing analyzers. This means no problems with water ingress and pumps last longer

TECHNICAL SUPPORT
1-888-717-1333



Custom Fit Foam Organizers

- Turn a tool cart into a high power mobile workstation
- Set of drawer organizers holds diagnostic platform and all standard accessories, plus room for many optional accessories

Drawer organizers to fit roll carts KRSC30, KRSC31, KRSC33 and KRSC326:

- VERUSFOAM3** Foam drawer organization for VERUS® and adaptors.
- VERUSWFOAM3** Foam drawer organization for VERUS Wireless and adaptors.
- VERDICTFOAM3** Foam drawer organization for VERDICT™ and adaptors.
- MODISFOAM3** Foam drawer organization for MODIS™ and adaptors.
- SOLUSVPFOAM** Foam drawer organization for SOLUS PRO™ and Vantage PRO™ and adaptors.
- SOLUSUFOAM3** Foam drawer organization for SOLUS Ultra® and Vantage PRO and adaptors.



KRSC40 cart sold separately. Tools not included.

Drawer organizers to fit roll carts KRSC40, KRSC42 and KRSC46:

- VERUSFOAM4** Foam drawer organization for VERUS and adaptors.
- VERUSWFOAM4** Foam drawer organization for VERUS Wireless and adaptors.
- VERDICTFOAM4** Foam drawer organization for VERDICT and adaptors.
- MODISFOAM4** Foam drawer organization for MODIS and adaptors.
- SOLUSUFOAM4** Foam drawer organization for SOLUS Ultra and Vantage PRO and adaptors.



VERUSFOAM4



EAK0294B04A

EAK0294B04A - Leather Travel Case.

- Ultimate in portability and protection
- Multiple zippered compartments to organize diagnostic platform and accessories
- Handle and sturdy nylon shoulder strap for easy portability
- For VERUS, VERDICT, SOLUS PRO, SOLUS Ultra, Vantage PRO and ETHOS® diagnostic units (not included)



EAK0294B17A

EAK0294B17A - Low Profile Organizer Case.

- Protect and organize your diagnostic tool and accessories for easy storage and portability
- Includes foam inserts to fit VERUS, MODIS, SOLUS PRO or SOLUS Ultra (diagnostic tool not included)
- Custom fit foam organizer for standard accessories; adaptors, cables, battery, charger, etc.
- Textured fabric exterior with semi rigid shell case
- Padded handle and shoulder strap included
- Low profile to fit in toolbox drawer 5.5" D x 14" W x 25" L



WARNING



• Read safety precautions on pages W1 to W4

DIAGNOSTICS

Software and Information Systems

Diagnostic Software Upgrades - for VERUS®, VERUS Wireless, VERDICT™, MODIS™, SOLUS PRO™, SOLUS Ultra®, Vantage PRO™ and ETHOS®

- Continue to improve your productivity with regularly scheduled software upgrades from Snap-on featuring updated coverage for new vehicles, expanded coverage for earlier models and the latest enhancements that add capabilities to your tool
- You'll access thousands of new vehicle systems, trouble codes and live data parameters, as well as thousands of new experience based troubleshooter tips, functional tests, adaptations and component tests for platforms with those functions
- For details on the latest software upgrade, see your Snap-on representative

European Vehicle Activation for VERUS, VERUS Wireless, VERDICT, MODIS, SOLUS PRO, SOLUS Ultra and ETHOS

- Comprehensive OEM specific coverage is critical for servicing European makes, from fault codes and data for dozens of vehicle systems, to functional tests, relearns and adaptations for vehicles with those features
- Coverage for Audi®, BMW®, Land Rover®, Mercedes®, MINI®, SMART®, Volvo® and Volkswagen® vehicles as far back as 1992
- See your Snap-on representative



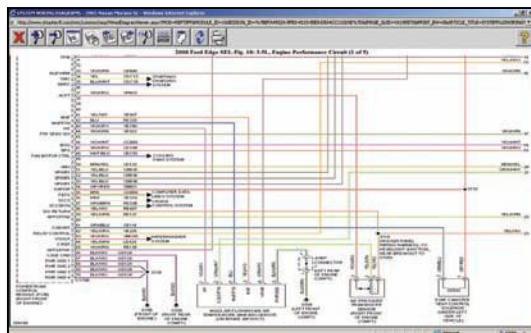
EETA113B Pass Thru Pro II.

- Reprogram vehicle control modules like the OEMs
- Updates software/firmware in vehicle electronic control units (ECU)
- For J2534 compliant 2004-later vehicles
- Includes OEM approved programming interface, cables and software
- Requires internet access, OEM data subscription or a PC

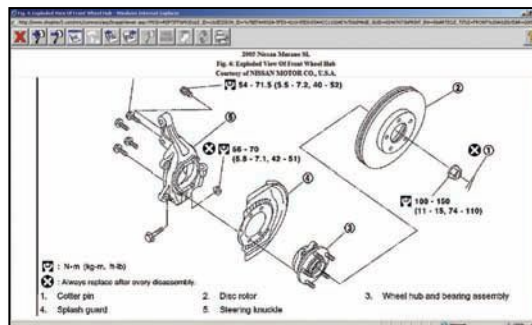


ShopKey Repair Information System ShopKey Medium Truck ShopKey Tractor-Trailer and REPAIR>CONNECT ShopKey Service Writer/Shop Management

- The most trusted source of automotive repair information available, ShopKey is loaded with features to make you more efficient and your repair job easier
- Access tools such as ShopKey live tips, enhanced TSB's, the industry's only scalable vector graphic color wiring diagrams and vintage information dating back to 1960
- With ShopKey online access you're always up to date on the latest vehicle coverage and industry changes
- Whether it's repair and estimating for Light Duty vehicles, Medium Truck, Tractor-Trailer, Service Writer or Shop Management software you're looking for, ShopKey has you covered
- Access ShopKey on your Snap-on® VERDICT, VERUS or VERUS Wireless platform and you'll never have to leave the service bay again to access the information you need to get the job done
- For details on how to make ShopKey a part of your daily diagnostic and repair routine, see your Snap-on representative or visit diagnostics.snapon.com/shopkey



Full color OEM wiring diagrams simplify even the most difficult procedures.



Become an instant expert on millions of different repairs.

EESC717PRO MICROSCAN® Pro (Blue-Point®) Global OBD-II Scanner.

- With internal battery power and automatic code display in as little as 10 seconds
- Covers all 10 modes of OBD-II
- Codes, live data, experience based code tips and timesavers for a confident diagnosis
- Easy Y/N buttons and icon shortcuts for frequently used functions
- 2 PID graphing to compare two live data streams side by side
- Big 7 line backlit display shows easy to read results and complete code definitions in plain language
- Exclusive code tips point to common causes and get to the root cause of a trouble code faster
- Record and playback 64 point data files
- Save vehicle ID and diagnostic results for 25 vehicles
- Enhanced engine codes for complete driveability diagnostics on M®, Ford®, Chrysler® vehicles
- ABS brake system codes for GM, Ford and Chrysler vehicles
- OBD-I coverage for GM, Ford, Chrysler, and select Toyota® vehicles (requires optional EAK0302L01A adaptor kit)



MICROSCAN Accessories

EAK0302L01A MICROSCAN (Blue-Point) OBD-1 Adaptor Kit.

- Connect MICROSCAN PRO to pre-1996 GM, Ford, Chrysler and Toyota vehicles

Note: For MICROSCAN PRO scanner only. Not applicable to Snap-on® brand scan tools

8-07324A MICROSCAN (Blue-Point) Travel Bag.

- Padded nylon soft case, custom fit for MICROSCAN scanner
- Keeps MICROSCAN scanner and all standard accessories organized and protected

EAC0106L18A MICROSCAN (Blue-Point) Custom Fit Silicon Skin.

- Keeps MICROSCAN scanner clean and protected from grease, solvents and dirt
- Comfortable, cushioned nonslip silicone rubber

Car Reader Scan Tools

EECR1 CarScan-Reader.

- Works on new 2010 Diesel emissions systems and Hybrids
- Backlit display
- Vehicle Health Status LEDs confirm if a vehicle will pass or fail an emissions/ smog test
- Mini USB

EECR2 CarScan-Diagnostics.

- Plug and play diagnostics
- ABS DTCs
- Internal batteries, on screen DTC library in English and Spanish
- USB and software are included
- Freeze frame data and manufacturer specific definitions
- Mini USB

TECHNICAL SUPPORT

1-877-447-6276

	Description	EECR1	EECR2
Application	Diagnostic Check Engine Lights on 1996 and Newer Vehicles	•	•
	Turns off Check Engine Light	•	•
	Works on Late Model Vehicles with CAN Protocol	•	•
Unique Features	Plug and Play Diagnostics with All in One Display	•	•
	Vehicle Health Status LED Display	•	•
	OBID Emissions Readiness	•	•
	Hot Keys for Intuitive Navigation	•	•
	Complete Drive Cycles with Emissions Readiness Advisor	•	•
	Automatic Vehicle Identification	•	•
	Trilingual Display		•
	Battery Backup for off Vehicle Review		•
	Backlit Display		
On Board Diagnostic Features	Retrieves Manufacturer and Generic Codes	•	•
	Displays Enhanced Freeze Frame Data		•
	On Screen Code Definitions in English, French or Spanish		•
Bonus Features	Create Vehicle Diagnostic Reports		•
	Internet Updateable, Software and Cable Included		•



EECR1

EECR2



WARNING



• Read safety precautions on pages W1 to W4

DIAGNOSTICS

iQ™ Heavy Duty Scan Tools



TECHNICAL SUPPORT
1-800-639-6774



EEHD188001 Pro-Link® iQ Kit.

Smarter. Easier. Essential. The recognized standard in diagnostic scan tools.

Pro-Link iQ kit is designed to help diagnose engine, brake and transmission failures. This easy to use, advanced tool is engineered to support today's commercial vehicles as well as the more complex vehicles of tomorrow. Using clear menus and message screens, the *Pro-Link iQ* kit guides technicians through the most complicated vehicle tests.

Key Functions and Features:

- Large, sharp color graphics
- Information clearly displayed
- Fast data downloads
- Portable and powerful

Kit Includes:

Pro-Link iQ Scan Tool.

EEHD889008 *iQ* Heavy Duty Standard Application.

EEHD501002 Power and Data Cable.

EEHD488099 Power Supply.

EEHD488024 6 Pin Deutsch Adaptor.

EEHD488028 9 Pin Deutsch Adaptor.

EEHD4001018 2 Cell Battery Pack.

EEHD850089 CD Manual/Driver.

EEHD1402813 Stylus Pen (1 in kit).

EEHD210007 Carrying Case.

EEHD889008 Heavy Duty

Standard J1939*.

EEHD888076 OBD II Software*.

EEHD481013 OBD II/J1962

Adaptor*.

EEHD909008 Fault Code Guide*.



EEHD181030S Pocket iQ Scan Tool (Blue-Point®).

The quick and convenient way to gather critical truck performance data.

Whether covering a large fleet or monitoring just a truck or 2, the compact *Pocket iQ* scan tool makes it easy to collect operating information. With its advanced capabilities, touchscreen technology and clear message and menu screens, the *Pocket iQ* scan tool reports critical engine, brake and transmission functions. It also stores and accesses vital facts and figures, fault codes and more.

Key Functions and Features:

- Monitors all vehicle data
- Checks engine speed and load, pressures, temperatures and more
- Reads active fault codes
- Reads and clears inactive fault codes
- Displays trip data
- Collects and stores data from multiple vehicles
- Stores data in PDF or text format
- Supports J1708 and J1939 communication
- Supports OBD-II communication*

Kit Includes:

EEHD501002 Power and Data Cable.

EEHD488024 6 Pin Deutsch Adaptor.

EEHD488028 9 Pin Deutsch Adaptor.

EEHD481013 OBD II/J1962 Adaptor*.

EEHD403098 USB Cable.

EEHD181030-2 Battery Pack.

EEHD181030PB Soft Storage Case.

EEHD1402813 Stylus Pen (1 in kit).

SS3241 Instructional DVD*.

EAK0276B02A AC Power Adaptor.

*Included exclusively in the Snap-on® and Blue-Point versions.

EEHD681004 Extreme Heavy Duty Pro-Link® iQ Kit. Smarter. Easier. Essential. The recognized standard in diagnostic scan tools.

This kit includes all current available software for diagnostics, the most common adaptors, the fault code guide, and includes the hardened case to protect your investment.

Key Functions and Features:

- Large, sharp color graphics
- Information clearly displayed
- Fast data downloads
- Portable and powerful
- 1 Year Warranty

Accessories Included:

- EEHD481009 HD/1962 GM® Truck for GM Truck CAT® Engine Adaptor.
- EEHD481003 12 Pin Connector*.
- EEHD909008 Heavy Duty Fault Code Guide*.
- EEHD219006 Extreme Heavy Duty Case*.
- EEHD219006-1 Foam*.

Kit Includes:

- EEHD188001 Pro-Link iQ Scan Tool.
- EEHD889008 J1939 Heavy Duty Standard**.
- EEHD888008 J1708/J1587 Heavy Duty Standard**.
- EEHD888076 OBD-II for Light and Medium Trucks.
- EEHD501002 Power and Data Cable.
- EEHD488099 110 V Power Adaptor.
- EEHD488028 9 Pin Deutsch Adaptor.
- EEHD488024 6 Pin Deutsch Adaptor.
- EEHD481013 OBD-II/J1962 Adaptor.
- EEHD4001018 2 Cell Battery Pack.
- EEHD1402813 Stylus Pen (1 in kit).
- EEHD850089 CD Manual/Drivers.

* Cummins® support for these applications limited to basic codes and data

** New to the Extreme Kit. (Not in the old RWD Master Kit).

TECHNICAL SUPPORT
1-800-639-6774



- Software Included: EEHD681004
- EEHD889015 For DDEC VI Software (2007-2009) for Detroit Diesel® Electronic Systems.
 - EEHD888015 For DDEC Software Suite - DDEC III, IV and V (1995-2006) for *Detroit Diesel* Electronic Controls.
 - EEHD889031 For *Detroit Diesel* MBE Engines (Pre-EPA07).
 - EEHD880024 For Caterpillar® ACERT® 2.0 (2003-2009) for Diesel Engines.
 - EEHD889024 For CAT Electronic Engines (1990-2003).
 - EEHD888005 Allison® Software Suite - GEN IV, 1K/2K, 3K/4K, CEC1 for *Allison* Engines.
 - EEHD888014 WABCO Suite for Air and Hydraulic Diagnostic Systems.
 - EEHD881048 LMT Software - Enhanced for Ford®, GM and Isuzu® Vehicles.
 - EEHD880010 International® Engines Software 2.0 (1994-2006) for *International* Engines**.
 - EEHD881009 For Navistar® MaxxForce® (2007-2009) Diesel Engines**.

Engines

Detroit Diesel Engine Applications

- EEHD889015 DDEC VI/MBE Software (2007-2009) for *Detroit Diesel* Engines.
- EEHD888015 DDEC Suite III, IV, V Software (1995-2006) for *Detroit Diesel* Engines.
- EEHD889031 DDEC MBE Software (2001-2006) for *Detroit Diesel* Engines.
- EEHD481003 12 Pin Adaptor, DDEC I & II for GM Engines.

International-Navistar Engine Applications

- EEHD881009 For *Navistar MaxxForce* (2007-2009) Diesel Engines.
- EEHD880010 *International* Engines Software v2.0 (1994-2006) for *International* Engines.
- EEHD880010U *International* Engines Software v2.0 Upgrade (1994-2006) for *International* Engines.

Caterpillar Engine Applications

- EEHD880024 *Caterpillar ACERT* Software v2.0 (2003-2009) for *Caterpillar* Engines.
- EEHD880024U *Caterpillar ACERT* Software v2.0 Upgrade (2003-2009) for *Caterpillar* Engines.
- EEHD889024 For *Caterpillar* Engines (1990-2003).
- EEHD401015 9 Pin for *Caterpillar* Deutsch Engines (1990-1995). Required.
- EEHD401014 9 Pin for *Caterpillar* T Engines (1990-1993).

Mack®, Volvo®, Cummins and Other Applications

Snap-on is pleased to offer the Heavy Duty Standard application for use with *Mack*, *Volvo*, *Cummins* and other engines.



WARNING



• Read safety precautions on pages W1 to W4

iQ Software

Transmissions

Heavy Duty Transmission Applications

Heavy Duty Transmission applications allow viewing of proprietary information and the running of tests.

- EEHD888005 *Allison* Transmission Suite GEN IV, 1K/2K, WTEC, CEC1.



Brakes

Heavy Duty ABS Applications

Heavy Duty ABS applications provide diagnostic ABS information for both tractors and trailers. Allow viewing of proprietary information and running of special tests.

- EEHD888014 Meritor *WABCO* Air and Hydraulic Diagnostic Systems.
- EEHD889013 For Bendix Air ABS Brake Systems.
- EEHD601020 PLC Converter Kit (2002-Current) for ABS Powerline Carriers.

Required for newer trailers.



EEHD601020

DIAGNOSTICS

Heavy Duty Vehicle Diagnostics

Light and Medium Truck (LMT) Applications

EEHD881048 Light/Medium Duty Trucks for Ford®, GM® and Isuzu® (2001-2010) vehicles.

EEHD881048U Light/Medium Duty Trucks for Ford, GM and Isuzu Upgrade (2001-2010) vehicles.

EEHD888076 For Light/Medium Duty Trucks (1996-2011) OBDII Scanner.

Enhanced coverage for gas and diesel engines, including the following:

- Ford**
- 7.3 Liter Powerstroke
 - 6.4 Liter Powerstroke
 - 6.0 Liter Powerstroke

Transmission and ABS coverage:

Ford Brakes and Transmission

- F250-F750
- E250-E450

GM and Isuzu

- 8.1 Liter
- 6.6 Liter Duramax
- 7.8 Liter Diesel
- 5.2 Liter Diesel

GM Brakes and Transmission

- C1500-C7500
- T4500-T7500
- P chassis
- Workhorse

Isuzu Brakes and Transmission

- NPR/NF3
- NQR/NRR



Heavy Duty Standard Applications

Snap-on offers Heavy Duty Standard (HDS) generic applications covering engines, transmissions and brakes that provide access to limited, nonproprietary diagnostic information. HDS capabilities:

- Read active fault codes
- Read and clear inactive fault codes
- View nonproprietary parameters
- Read trip information

EEHD889008 Medium/Heavy Duty Standard J1939 (2004-Current).

Heavy Duty Standard J1708.

Medium/Heavy Duty Trucks 1989-2009 Included.

Pro-Link iQ™ Cables and Accessories



EEHD488024
6 Pin Deutsch Adaptor.



EEHD488028
9 Pin Deutsch Adaptor.



EEHD481009
HD/J1962.



EEHD481013
OBD II/J1962.



EEHD488099
AC Adaptor.



EEHD1402813
Stylus Pens (3-Pack).



EEHD4001018
2 Cell Battery Pack.



EEHD4001019
4 Cell Battery Pack.



EEHD2450801A
Screen Protector.



EEHD210007
Carrying Case.



EEHD219006
Extreme Carrying Case.



EEHD219006-1
2 pc Protective Foam.



EEHD481003
12 Pin Adaptor.



EEHD401012
8 Pin AMP Adaptor.



EEHD401013
2 Pin Adaptor for
Cummins® Engine.



EEHD401014
T 9 Pin Adaptor for
Caterpillar® Engine.



EEHD401015
9 Pin Deutsch
Adaptor for
Caterpillar Engines.



EEHD401016
9 Pin AMP Adaptor.



EEHD421001
J560 PLC Cable.



EEHD501002
Power and Data Cable.



EEHD501003
Data Cable.



EEHD501004
Power Cable.

TECHNICAL SUPPORT
1-800-639-6774

Overview	426
Specialty Meters and Analyzers	428
Battery Service	460
Air Conditioning and Cooling	468
Under Car Service	483
Welding	515
Lighting	527
Shop Equipment	535
Cleaning and Safety	601



Scan to learn about innovations in shop & tech tools from Snap-on

www.snapon.com/1200/shopandtech



IT'S ABOUT TIME... AND MONEY

Whether a shop owner or a technician, Snap-on has productivity solutions to save you time and help increase revenue

Equipment for the Shop

Expand your shop's capabilities and productivity, keeping business where it belongs—with you

ROI — From welders built to withstand tough shop environments to battery chargers that perform a variety of functions, your investment is rewarded



SHOP & TECHNICIAN TOOLS

INNOVATION — Keep customers loyal to your shop by servicing their vehicles with the most up-to-date equipment available

BREADTH — Expand your services, enhance your capabilities and attract more business, choosing from 22 shop equipment categories that meet your needs and your vision

Essentials for the Technician

Tools to grow your potential and enhance your productivity in the shop

WORK SMARTER — Complete system coverage from multimeters to video inspection scope to noise detection devices

WORK FASTER — Cut prep and labor time, providing the opportunity to earn more

WORK SAFER — Protect yourself and your profitability, and stay on the job with proper safety equipment



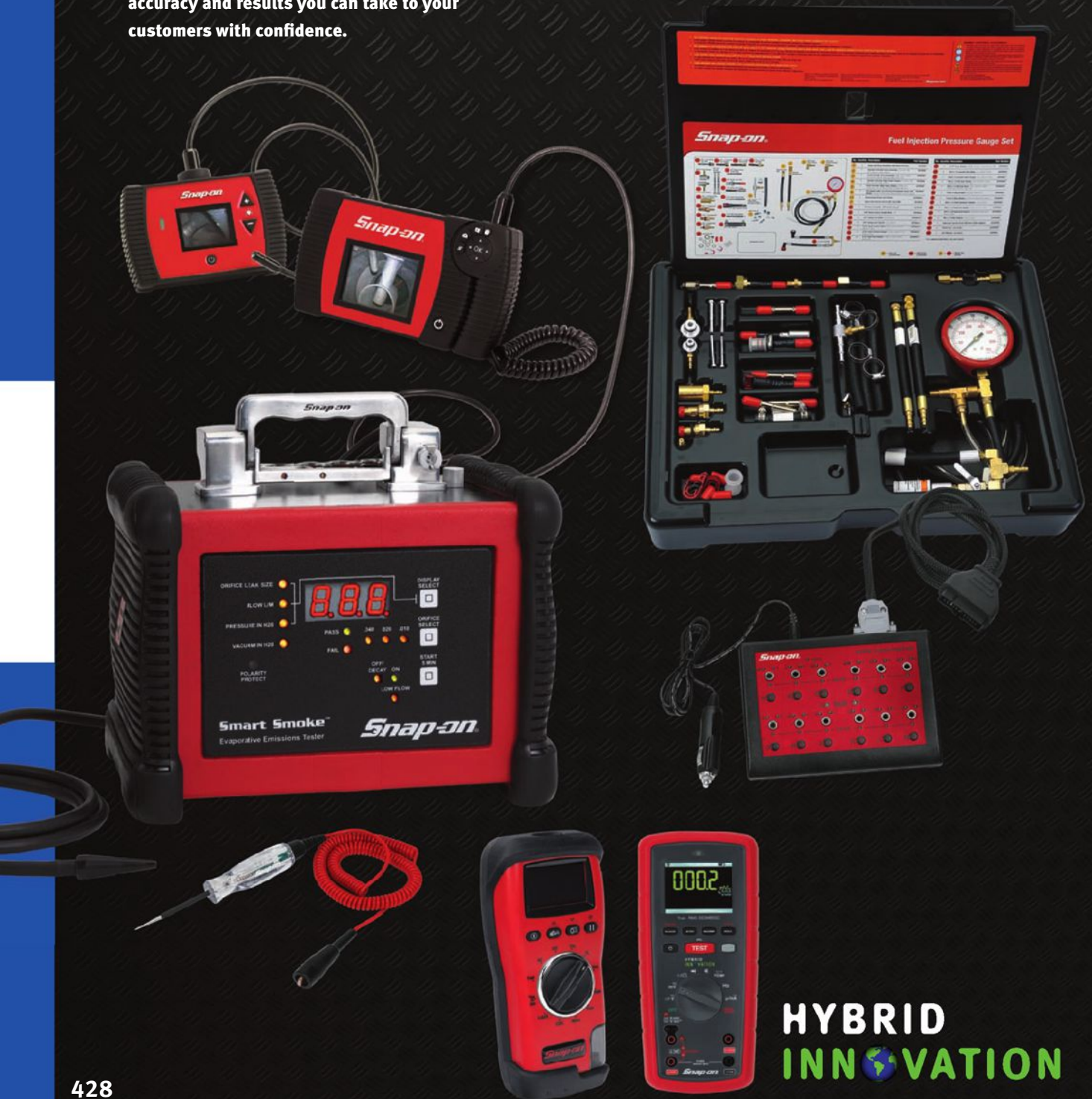
SPECIALTY METERS & ANALYZERS

Enhance Your Senses.

Whether its getting a closer look at a problem with a videoscope, detecting the slightest engine noise with a listening device or diagnosing a complex electrical problem with a multimeter, Snap-on gives you capabilities to see, hear and analyze. They deliver pinpoint accuracy and results you can take to your customers with confidence.

Measure and Detect.

Problems come in many forms. Snap-on helps reduce the time and effort it takes to find the source, whether it s related to amps, volts, HC, CO₂, CO, O₂, NO_x, degrees, grounds, short or open circuits, watts, rpm, decibels, compression, cylinder leakage or vacuum.



**HYBRID
INNOVATION**



BK6000

BK6000 Video/Still Recording Digital Borescope.

- Records and plays back still images and video clips
- 3 1/2" display offers large viewing screen and 2x digital zoom
- Removable, rechargeable Li-ion battery pack
- Can operate BK6000 while charging the battery
- Easy to use, multi language interface
- Mini USB connector for uploading images and video
- External SDHC card slot
- Control handle disengages to allow greater maneuverability
- Audio input jack for recording comments with optional ear bud and microphone attachment
- CE

BK6000/BK5500A Applications:

- Ideal for engine, A/C, under dash, suspension and transmission work
- Inspect cylinder bores and valves through the spark plug hole
- Examine for gear wear in differentials and manual transmissions
- View inside door and body panels to check for malfunctions, defects and hidden damage
- Inspect under dash for electrical routing, HVAC actuator operation and radio code verification
- Locate fluid leaks without a direct line of sight



BK5500A

BK5500A Video Inspection Scope.

- Time saving inspection tool:
 - Ideal for engine, A/C, under dash, suspension and transmission work
- Simple to use:
 - Single On/Off button and battery indicator
 - Convenient thumb control for LED light intensity
 - 8.5 mm diameter imager head fits into most spark plug holes
 - High intensity LEDs direct light where it is needed
 - 36" long obedient shaft for added reach
 - .75" shaft bend radius for great flexibility
- Excellent image quality:
 - 320 x 240 display resolution
 - 720 x 480 imager resolution when using the video-out port to an external monitor
 - 2.4" color LCD provides a larger viewing image than eyepiece borescopes
 - Close focus range from 0.5 to 12"
 - Video out port
- CE

BK6000/BK5500A Shared Features:

- 8.5 mm diameter imager head fits into most spark plug holes
- High intensity LEDs direct light where it is needed
- 36" long obedient shaft for added reach
- 3/4" shaft bend radius for great flexibility
- 320 x 240 display resolution
- 720 x 480 imager resolution when using the video-out port to an external monitor
- Close focus range from 1/2 to 12"
- Quick change connector enables use of optional length, specialized purpose imagers
- Integrated stand and hanger for flexible positioning



BK5500-7



BK5500-9



BK5500-10



BK5500-12



BK5500-13



BK5500-15

Stock No.	Description	Included with BK5500A	Included with BK6000	Accessory for BK5500A	Accessory for BK6000
BK5500-1	36" Imager (8.5 mm head)	•			
BK5500-2	Mirror and Magnet	•	•		
BK5500-6	Blow Molded Case			•	
BK5500-7	72" Imager (8.5 mm head)			•	•
BK5500-8	Video Out Cable	•			
BK5500-9	120" Imager (8.5 mm head)			•	•
BK5500-10	36" Blue Light / UV Imager (8.5 mm head)			•	•
BK5500-12	Dual Imager (mm head)			•	•
BK5500-13	36" View Imager (5.5 mm head)			•	•
BK5500-15	30" Dual Imager (12.5 mm head)			•	•
BK6000-1	Battery, Li-ion		•		
BK6000-2	S-Hook		•		
BK6000-6	Blow Molded Case		•		
BK6000-10	Battery Charger		•		
BK6000-11	Earbud and Microphone				•
BK6000-12	USB Cable		•		
BK6000-13	Kick Stand		•		
	(4) AA Batteries	•			
	Warranty	2 years	2 years		
	Instruction Manual	•	•		

CE



WARNING



- Do not use in environment with explosive vapor
- Read safety precautions on pages W1 to W4

Select the Meter For Your Needs



7 Year Limited Warranty

CHECK YOUR NEEDS

Specifications	✓	EEDM596DK	EEDM525D	EEDM504D	EEDM503D
Certificate of Calibration Model		EEDM596DCRT		EEDM504DCRT	
Display Count		40,000	4,000	4,000	2,000
AC Volts		750	750	750	750
DC Volts		1,000	1,000	1,000	1,000
Basic DC Accuracy		0.10%	0.50%	0.50%	0.50%
AC Amps		10	10	10	10
Micro Amps		Yes	Yes	Yes	Yes
DC Amps		10	10	10	10
True RMS (Root Mean Square)		Yes	Yes		
Resistance		40M Ohm	40M Ohm	40M Ohm	20M Ohm
Capacitance		Yes	Yes	Yes	
Frequency		Yes	Yes	Yes	
Insulation Test		No	No	No	No
Analog Bar Graph		Yes	Yes	Yes	
Auto Range		Yes	Yes	Yes	
Data Hold		Yes	Yes	Yes	Yes
Min/Max		Yes	Yes	Yes	
Backlight		Yes	Yes		
Auto Power Off		Yes	Yes	Yes	
RPM (*opt.)		Yes	EEDMRPMG*	EEDMRPMG*	EEDMRPMG*
Adj. Trigger Level		Yes			
Noise Red. Circuit		Yes			
Temperature (*opt.)		Yes	Yes	EEDM506C*	EEDM506C*
Duty/Dwell		Yes	Duty Only	Duty Only	
mS Pulse Width		Yes			
Comp. Output (USB)		Yes, Included			
UL Listed		cULus 61010-1	cULus 61010-1	cULus 61010-1	cULus 61010-1
CAT Rating		CATII 750 V AC CATIII 1000 V DC CATIII 600 V AC/DC	CATII 750 V AC CATIII 1000 V DC CATIII 600 V AC/DC	CATII 750 V AC CATIII 1000 V DC CATIII 600 V AC/DC	CATII 750 V AC CATIII 1000 V DC CATIII 600 V AC/DC
Easy Open Battery and Fuse Door		Yes	Yes	Yes	Yes
Glitch Capture		Yes			
Low Pass Filter (LPF)		Yes	Yes		
Blown Fuse Identifier		Yes	Yes	Yes	Yes
Dimensions (w/Boot), inches		7 ³ / ₄ x 3 ³ / ₄ x 1 ¹ / ₂	7 ³ / ₄ x 3 ³ / ₄ x 1 ¹ / ₂	7 ³ / ₄ x 3 ³ / ₄ x 1 ¹ / ₂	7 ³ / ₄ x 3 ³ / ₄ x 1 ¹ / ₂
Case		MT586BK1	MT586BK1	EEDM503B3	
Replacement Fuses		EEDM504B1 EEDM504B2	EEDM525D6 EEDM525D7	EEDM504B1 EEDM504B2	EEDM503B2 EEDM504B2

CE

*Certified and UL listed

TECHNICAL SUPPORT
1-888-382-6522

**HYBRID
INNOVATION**



7 Year Limited Warranty on Snap-on® meters

5 Year Limited Warranty on Blue-Point® meters

CHECK YOUR NEEDS

EEDM604C	EEDM650C	MT454C**	MT501C**	MT574C**	Specifications	✓
	EEDM650CCRT			MT574CCRT	Certificate of Calibration Model	
50,000	4,000	4,000	2,000	4,000	Display Count	
1,000	1,000	600	600	600	AC Volts	
1,000	1,000	600	600	600	DC Volts	
0.05%	±0.1% + 2 digits	0.50%	0.75%	0.30%	Basic DC Accuracy	
10	400mA			400mA	AC Amps	
Yes	Yes				Micro Amps	
10	400mA			400mA	DC Amps	
Yes	Yes				True RMS (Root Mean Square)	
(plus conductance)	40M Ohm	40M Ohm	2K Ohm	40M Ohm	Resistance	
Yes	Yes				Capacitance	
Yes	Yes				Frequency	
No	Yes	No	No	No	Insulation Test	
Yes					Analog Bar Graph	
Yes	Yes	Yes		Yes	Auto Range	
Yes	Yes		Yes	Yes	Data Hold	
Yes	Yes			Yes	Min/Max	
Yes	Yes				Backlight	
Yes	Yes	Yes		Yes	Auto Power Off	
EEDMRPMG*	EEDMRPMG*		EEDMRPMG*	EEDMRPMG*	RPM (*opt.)	
	Yes				Adj. Trigger Level	
	Yes				Noise Red. Circuit	
MT586B	Yes		EEDM506C*	EEDM506C*	Temperature (*opt.)	
					Duty/Dwell	
Yes					mS Pulse Width	
					Comp. Output (USB)	
cULus 61010-1	cULus 61010-1	cULus 3111	cULus 3111	cULus 3111	UL Listed	
CATIII 1,000 V CAT IV 600 V	CATIII 1,000V CAT IV 600V	CATIII 600 V	CATIII 600 V	CATIII 600 V	CAT Rating	
Yes	Yes				Easy Open Battery and Fuse Door	
Yes	Yes (0.25 mS)				Glitch Capture	
	Yes				Low Pass Filter (LPF)	
Yes	Yes				Blown Fuse Identifier	
3 13/16 x 8 x 2 13/32	9 x 4 1/4 x 2	6 x 3 x 2	6 x 3 x 2	6 x 3 x 2	Dimensions (w/Boot), inches	
MT586BK1*	MT596AK1				Case (*optional)	
EEDM604C1 EEDM604C2	EEDM604C1			EEDM504B1	Replacement Fuses	

CE

*Certified and UL listed

**Blue-Point

TECHNICAL SUPPORT

1-888-382-6522



WARNING



• Do not use in environment with explosive vapor
• Read safety precautions on pages W1 to W4

Digital Multimeter Accessories



EETA501C

EETA501C Clamp on Amp Probe.

- Measures AC and DC currents greater than 10 A without breaking the circuit
- Ideal for measuring starter (A) and automotive current draw
- Used with DMMs that have 2 V and 200 mV AC and DC ranges
- Range: 0 to 20 A on 200 mV AC or DC, 0 to 400 A on 2 V AC or DC



EETA502C

EETA502C Clamp on Amp Probe.

- Similar to EETA501C except range is 0 to 2,000 A AC or DC

EETA503C Low Current Adaptor.

- AC/DC low current adaptor for digital multimeters with DC mV Range and 10 mA impedance
- Measures parasitic current draw on battery cable when key is in off position to indicate component failures or shorts
- Quickly measures branch circuit draw to isolate problem area
- Safely measures current draw of electrical fuel pumps
- Measures from 10 mA to 60 A



EETA503C

EEDM5030 Pressure Adaptor.

- Measure pressure from 1 to 500 psi and vacuum from 1 to 29 inHg
- Output is 1 mV DC per psi or inHg
- Ideal for measuring transmission or hydraulic pressure
- 1/4" NPT fitting on pressure transducer
- Sensor compatible for air or liquid
- 6 1/2' cable length



EEDM5030

EEDMRPMG Gasoline Engine RPM Adaptor.

- Ideal for small, single cylinder, 2 and 4 stroke gas engine applications
- Use with any digital multimeter that has DC mV ranges to measure gasoline engine rpm
- Plug adaptor into DMM (set to DC mV function), clip lead above engine spark plug boot and multiply reading by 10
- Range is 300 to 6,000 rpm
- Output is 1 DCmV per 10 rpm
- Powered by 9 V battery (included)



EEDMRPMG



EEDM575D

Specifications	EEDM575D
Display Count	11,000
AC Amps	400
AC Volts	600
DC Amps	400
DC Volts	600
Basic DC Accuracy	0.5%
Frequency	10 KHz
Resistance, ohms	110M
Dimensions, (L x W x H) inches	10" x 1 3/8" x 2 1/2"



EEDMRPMD

EEDMRPMD Diesel Engine RPM Adaptor.

- Ideal for small diesel engine applications
- Measures diesel engine rpm
- Plug adaptor into the DMM (set to IP), attach transducer to fuel line leading to an injector and read rpm on the meter
- Range is 300 to 4,000 rpm
- Resolution is 1 rpm, powered by 9 V battery (included)



EEDM5997

EEDM5997 DMM RPM Adaptor.

- For motorcycles, outboard motors, snowmobiles and ATVs with limited or no ignition shielding
- Use with 2 or 4 stroke engines
- Internal circuitry filters out noise
- Pick up features dual tapped coils to help eliminate errors on negative polarity ignitions



EEDMDVA

EEDMDVA Direct Voltage Adaptor.

- Converts outboard marine, motorcycle and other small engine ignition pulse signals into DC voltage signals
- Adaptor helps identify secondary ignition problems like failed individual coil packs or poor spark



EEDM5830

EEDM5830 Amp Adaptor.

- Allows DMMs to accurately measure up to 30 A AC/DC by converting the signal to millivolts
- Measure current draw of individual circuits from fuse box on automobiles, trucks and buses
- Measure the parasitic load on the battery
- Requires no internal/external power supply
- Range of 0 to 30 A



EETA106B

EETA106B Inductive Pick Up (Blue-Point®).

- Nonintrusive pickup slides over to secondary ignition spark plug wire and snaps shut for quick hook-ups without directly connecting to ignition circuit
- Used on most engines with 2 and 4 cycle ignition systems including small engines and waste spark systems

Digital AC/DC Clamp On Meters

EEDM575D Digital Clamp On Meter.

- True RMS meter that provides accurate measurements of nonlinear current
- Designed to measure starting current to 400 A, as well as volts, resistance and frequency
- Use to diagnose wheel speed sensors, injector control signals, cam and crank outputs, test cables, connections and fuses LCD display and analog bar graph enhance viewing of fast signal changes
- Records maximum and minimum values of RMS current, frequency or other measurements with Min/Max/Rec function
- Meets UL®, IEC and cULus61010 safety standards
- Includes test leads, temperature probe, soft carrying case, battery and instruction manual

Temperature Probes and Adaptor

EEDM506D Temperature Adaptor.

- Adds temperature capabilities to multimeters that do not have built-in temperature functions
- Provides dual temperature and differential temperature measurements for multimeters
- Output equals 1mV per degree
- Use with any multimeter with 200 mV DC and/or 2 V DC ranges
- Provides readings from -50 to 1,800 °F. Includes 2 beaded K-type temp probes. Low battery indicator light. Accuracy: $\pm 0.75\%$ of full scale + one digit

EETH501C Temperature Probe. Measures temperature in fluids and soft materials.

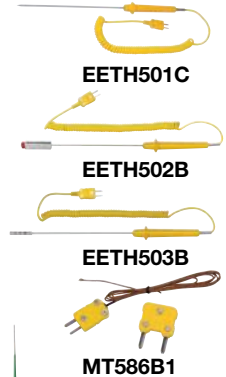
EETH502B Temperature Probe. Measures surface temperatures. 8" tip.

EETH503B Temperature Probe. Measures air temperatures. 8" tip.

MT586B1 Temperature Probe Meter Adaptor. Use for most contact, air or liquid measurements. Flexible cable.



EEDM506D



EETH501C

EETH502B

EETH503B

MT586B1



MTTL501

MTTL501 Probe Extension.

- 8" probe extension for EEDM504B3
- Reach connectors under dash or deep in engine compartment
- Alligator clips (not included) screw on to probe ends
- Fully insulated for user safety



EEDM504B3

EEDM504B3 Test Lead Set w/Alligator Clips.

- Standard vinyl jacketed set of test leads with screw on alligator clips for basic application testing needs
- Screw on probe protectors limit the metal probe shaft from touching during testing for safety (remove the protectors when using alligator clips or adaptors)



MTTL7005PK

MTTL7005PK Backprobes.

- Color coded for easy identification
- Bendable stainless steel tips
- Nonintrusive probes slide behind terminals
- Modular ends attach quickly

MTTLBOOT Replacement Boot Kit. 5 red, 5 black, 5 green, 5 blue and 5 gray.



MTTL504

MTTL504 Fused Test Leads.

- 48" fused test leads help protect unfused digital multimeters from electronic damage
- Provides additional protection when measuring high voltage
- Includes test lead set with alligator clips and 5 extra fuses
- Overall length is 48"



EETA107B

EETA107B Shielded Test Lead.

- Shielded test leads block out radio frequency interference (RFI)
- 6' leads are heat and oil resistant



EETA108B

EETA108B Shielded Test Lead.

- Shielded test leads block out radio frequency interference (RFI)
- 10' leads are heat and oil resistant

MTTL5041 5 A Fuses.

- 3 pack of replacement 5 A fuses for MTTL504 fused test leads



MTTL502

MTTL502 Insulation Piercing Test Probes.

- Use probes on threaded probe tips
- Banana adaptors included so probes can be used on banana plug lead sets



TL2A

TL2A Test Lead Set.

- High grade test lead pair fits all meters using standard banana plug jacks
- Nonslip prodding probes have stainless steel points
- Coiled cords stretch to more than 60"
- Screw on alligator clips convert the leads to jumper wires



TL3A

TL3A Test Leads.

- Heavy duty pair of jumper leads
- Use to connect a power source or a ground to test a fixture in automobile
- Heavy duty alligator clips feature the "bed of nails" concept
- Banana plug screws allow use with most multimeters



TL4A

TL4A Multimeter Test Leads.

- High grade test leads offer excellent coil memory and can be used with most popular test meters
- Leads feature the "bed of nails" concept, wire piercing probe and alligator style all in one tips



WARNING



- Do not use in environment with explosive vapor
- Read safety precautions on pages W1 to W4

Test Leads



TLS7B

TLS7B Test Lead and Adaptor Kit.

- Quick attach probes and mini alligator clips press onto the straight PVC jacketed lead set
- Threaded hook clips, standard plugs and alligator clips thread onto the probe ends
- Provides an economical set for conducting various tests



MTTL300

MTTL300 Test Lead Kit.

- 4 color coded test leads help reduce the chance of wrong connections
- Use as test lead, jumper wires or for shorting out components when performing ignition system tests
- Each lead is 4' long



MTTL301

MTTL301 Test Lead Kit.

- Contains 12", 18", 24", and 10' jumper leads
- Use as extension leads or for shorting out components when testing ignition



MTTL500

High Grade Test Leads (For Digital Multimeters)

MTTL500 Test Lead Kit.

- Interchangeable probes permits wider range of testing possibilities
- Right angle 48" long test leads are made from double insulated silicone super flex wire
- Spring hooks for use on 16 gauge and smaller bare wire
- Alligator clips for attachment to bolts and large wire conductors
- Spade terminals for use on terminal blocks and prods for probing wire ends



MTTL800

MTTL800 Test Lead Kit.

Kit includes:

Stock No.	Description	Overall Length, inches (cm)	Tip Size, inches (mm)
MTTL7005PK	Back Probes	4 1/2 (11.5)	Diameter: 1/32 (1)
MTTL800-1	Modular Test Leads	48 (122)	Tip Ends: Modular push-on
MTTL800-3	Crocodile Clips	3 1/4 (8.3)	1/4 (7) x 1 1/4 (31.75)
MTTL800-4	Piercing Probes	3 1/4 (8.3)	1/4 (7) x 1/4 (7)
MTTL800-5	Grabbers 90	7 (17.8)	3/8 (10) x 1/4 (7)
MTTL800-6	Prods	5 (12.7)	1/16 (2)
MTTL800-7	Spring Hooks 90	7 (17.8)	3/16 (1)
MTTL800-PB	Storage Pouch	31 (78.7) Width: 10 (25.4)	N/A

CE



MTA70

MTA70 Alligator Clip Set.

- Screw on style alligator clips for use with EEDM504B3
- Do not use with MTA24

Stock No.	Description	MTTL500	MTTL600	MTTL700
MTA20	Prods - Modular	•		
MTA24	Test Leads Silicone Jacket - Modular	•		
MTA75	Alligator Clips - Medium - Modular	•		
MTA80	Spring Hooks - Modular	•		
MTA85	Alligator Clips - Heavy Duty - Flanged	•		
MTTL7001	Test Leads Silicone Jacket - Threaded			•
MTTL7002	Banana Plugs - Screw-on		•	•
MTTL7003	Alligator Clips - Large - Modular		•	•
MTTL7004	Insulation Piercing Prods - Modular		•	•
MTTL7005	Backprobe Adaptors - Needle - Modular		•	•



MTTL505

MTTL505 Grabber Lead Set.

- rubber leads slide in to grab wire or terminal ends in tight areas
- Recommended for use with MTTL500 modular test lead set or MTTL700 with the MTTL7002 screw on banana plug adaptors
- Use with any threaded test lead set using the MTTL7002
- Finger grip and plunger placement provides technician controlled placement of the jaws even under extreme conditions
- Jaw gripping pressure securely bites on the target terminal or wire
- Plunger and finger grip allow maximum jaw opening with minimum pressure for ideal placement, enabling a good contact
- Safety CAT III 1000 V, 10 A rating. cULus 61010 and IEC61010 listed



MTTL700

MTTL700 Test Lead Kit.

- Includes screw on banana plug adaptors, needle backprobe adaptors, large alligator clips and insulation piercing prods
- Test leads with interchangeable tips are 50" long
- Double insulated silicone wire is heat and flame resistant and flexible in extreme cold conditions



MTTL600

MTTL600 Test Lead Kit.

- Includes screw on banana plug adaptors, needle backprobe adaptors, large alligator clips and insulation piercing prods



TL616AO

TL624AG

TL648AR

High Visibility Jump Leads

TL Series High Visibility Jump Leads.

- High grade test leads offer the highest heat and oil resistance and exceptional coil memory
- Leads feature a removable “bed of nails” concept
- After removal, probe end with 8-32 brass thread allows use of other product accessories

TL616AO Test Leads. Hi-vis orange color, 16' extended length.

TL624AG Test Leads. Hi-vis green color, 24' extended length.

TL648AR Test Leads. Hi-vis red color, 48' extended length.



YA1175KIT

Retractable Test Leads (Blue-Point®)

YA1175KIT Retractable Test Lead Kit.

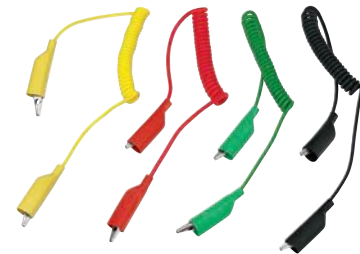
- Includes YA1175
- Retractable test leads, YA1175-1 probes (pair), YA1175-2 alligator Clips (pair) and YA1175-3 spring hooks (pair)
- Retractable test leads pull out and stay at desired length
- Rewind test leads when not in use for compact storage
- 18 gauge copper wire and interchangeable tips
- CE

Coiled Jump Leads

MTTL310 Coiled Jump Lead Set.

- 4 distinct colors facilitate easy identification of test circuits
- Crocodile clips on both ends securely grip terminal connections
- Coiled cord stretches to 48" (122 cm) for extra reach
- Coil cords recoil requiring minimum storage space and less tangling
- Heavy duty but flexible boots provide safety insulation and strain relief
- Soldered and clamped connections provide low signal loss and prolongs life

Stock No.	Coiled Length, inches (cm)	Stretched Length, inches (cm)	Crocodile Clip Opening, inches (cm)	Color
MTTL310-1	20 (51)	48 (122)	1/2 (1.27)	Black
MTTL310-2	20 (51)	48 (122)	1/2 (1.27)	Red
MTTL310-3	20 (51)	48 (122)	1/2 (1.27)	Green
MTTL310-4	20 (51)	48 (122)	1/2 (1.27)	Yellow



MTTL310

MTTL311 Coiled Jump Lead Set.

- 4 sizes facilitate various applications that make the job easier to complete
- Alligator clips on both ends securely grip terminal connections
- Coil cords recoil requiring minimum storage space and less tangling
- Heavy duty yet flexible rubber boots provide safety insulation strain relief
- Soldered and clamped wire connections to alligator clips provides low signal loss

Stock Number	Coiled Length, Inches (cm)	Stretched Length Inches (cm)
MTTL311-1	10" (25)	12" (30.5)
MTTL311-2	11" (28)	18" (46)
MTTL311-3	13" (33)	24" (61)
MTTL311-4	24" (61)	10 (305)



MTTL311



TLR6B

TLBR6B

Intrusive Circuit Testing Adaptors

- High quality “bed of nails” wire piercing adaptors
- These alligator style clips allow circuit testing when back probing is not desired or practical

TLB6B Adaptor. Straight nose test clip with black boot.

TLR6B Adaptor. Straight nose test clip with red boot.

TLBL6B Adaptor. Straight nose test clip with blue boot.

TLBB6B Adaptor. 15° bent nose test clip with black boot.

TLBR6B Adaptor. 15° bent nose test clip with red boot.

TLBBL6B Adaptor. 15° bent nose test clip with blue boot.



TLS4A

Battery Adaptor

TLS4A Battery Adaptor.

- 12 V accessory adaptor supplies power to circuit testers and scanners as well as to most other 12 V powered devices like car phones and lights
- Copper coated alligator clips with vinyl grips attach to battery terminals
- 3' cord length



WARNING



- Do not use in environment with explosive vapor
- Read safety precautions on pages W1 to W4

TESTING AND ELECTRONICS

Circuit Testers



6 and 12 Volt Circuit Testers

- Used to detect power and ground, also to find shorts and breaks
- Patented Instinct® Handle for style and comfort
- Molded internal contact links with the LED assembly top dimple for low loss signal transfer
- Smart LED design has more brilliant light output and longer life than traditional bulb

- Copper Clip is a superior quality component for maximum electrical signal transfer
- Low power consumption smart circuit design
- Convenient circuit board and spring assembly



EECT2H



EECT4H



EECT300HG



EECT300HR



EECT300HO

Specifications:	EECT2H	EECT4H	EECT300HG	EECT300HR	EECT300HO
Voltage	6 & 12	6 & 12	6 & 12	6 & 12	6 & 12
Cord Type/Color	Straight Cord/Black	Straight Cord/Black	Coiled Cord/Green	Coiled Cord/Red	Coiled Cord/Orange
Cord Material/Wire Gauge	Rubber/18	Rubber/18	PolyUrethane/18	PolyUrethane/18	PolyUrethane/18
Outside wire diameter, mm	4.0	4.0	4.0	4.0	4.0
Cord length, inches (extended)	70	70	135	135	135
Replacement Cord Assembly	EECTCORDBLS	EECTCORDBLS	EECTCORDBG	EECTCORDR	EECTCORDO
Replacement LED and Spring Assembly/Color	EECT2HLED/White	EECT4HLED/White	EECT300HGLED/Green	EECT300HRLED/Red	EECT300HOLED/Orange
Handle Size/Color	Mini Instinct/Clear	Medium Instinct/Clear	Medium Instinct/Clear	Medium Instinct/Clear	Medium Instinct/Clear
Terminal End	Heavy duty - copper clip	Heavy duty - copper clip	Heavy duty - copper clip	Heavy duty - copper clip	Heavy duty - copper clip
Replacement Clip	EECTCLIP2	EECTCLIP	EECTCLIP	EECTCLIP	EECTCLIP
Boot	EECTBOOT2	EECTBOOT	EECTBOOT	EECTBOOT	EECTBOOT
Stainless Steel Shank Length, inches	2	3 5/8	3 5/8	3 5/8	3 5/8

* Note: In low voltage situations LED light will not dim as significantly as incandescent bulb style.



TECHNICAL SUPPORT

1-888-382-6522



EECT313H



EECT301H



EECT24H



EECT314H



EECT3HL

Specifications:	EECT313H	EECT301H	EECT24H	EECT314H	EECT3HL
Voltage	6 & 12	12 only	18 & 24	12 to 42	6 to 12
Cord Type/Color	Straight Cord/Black	Coiled Cord/Black	Straight Cord/Black	Coiled Cord/Black	Straight Cord/Black
Cord Material/Gauge	Rubber/18	PolyUrethane/Dual 18	Rubber/18	PolyUrethane/18	Rubber/18
Outside wire diameter, mm	4.0	4.5	4.0	4.0	4.0
Cord length, inches (extended)	70 plus 72" extension	125	70	125	70
Replacement Cord Assembly	EECTCORDBLJ	EECTCORDBLP	EECTCORDBLS	EECTCORDBL	EECTCORDBLS
Replacement LED Spring Assembly/Color	EECT4HLED/White	EECT301HLED/Red (Power) Green (Ground)	EECT24HLED/White	EECT314HLED/Blue (12-17 V) Red (18-42 V)	2-5130 Bulb
Handle style & size	Medium Instinct/Clear	Medium Instinct/Clear	Medium Instinct/Red	Medium Instinct/Clear	Mini Instinct/Clear
Terminal End	Banana plug on terminal end	cigarette lighter adaptor	Heavy duty - copper clip	Heavy duty - copper clip	Heavy duty - copper clip
Replacement Clip			EECTCLIP	EECTCLIP	EECTCLIP
Boot			EECTBOOT	EECTBOOT	EECTBOOT
Stainless Steel Shank Length, inches	1	3 5/8	3 5/8	3 5/8	3 5/8
Additional components	nonintrusive accessories and carrying case				
Replacement Carrying Case	EECT313HBAG				

* Note: In low voltage situations LED light will not dim as significantly as incandescent bulb style.



Specialty Circuit Testers

CTS42V Circuit Tester (Blue-Point®).

- Quickly finds broken wires, blown fuses, bad switches and more
- Microprocessor controlled current loading capability for tests of powers and grounds
- Unit features all the advantages of an incandescent test light while being computer and air bag safe
- Super bright LED headlamp for working under dash, under hood or behind door panels
- Dual audible tone and bicolor LED indicate power, ground or open circuits
- 42 V



CTS42V



CTN10001

CTN10001 Circuit Tester.

- Cordless unit with no ground wire to deal with
- Red LED indicator and audio signal to verify power
- Computer and air bag safe
- 3 to 24 V DC range



YA11167

YA11167 OBD-II Breakout Box (Blue-Point).

- Provides easy access to all 16 OBD-II terminals and connection to scan tool
- Eliminates guessing which terminals are being probed
- Eliminates damage to vehicle terminals from probing
- Tester probes plug in securely so you are free to diagnose
- No more crawling under the dash
- Great for diagnosing inoperative communication links



EEDMRACKM

EEDMRACKM

- Convenient rack to hold circuit testers, DMM lead sets, amp clamps, temperature probes and other accessories for multimeters
- Can be mounted to wall with screws or placed on rollcab with magnetic block

Dynamic Test Leads

EECT180 LOADpro® Dynamic Test Leads.

LOADpro finds these problems fast:

- High corrosive resistance
- Shorts to ground
- Open circuits

Specifications:

- LOADpro applies 40 mA/V dynamic load with each load test
- Works with any DMM with standard banana plugs
- Test leads are 60" in length
- Alligator clips included
- For use on circuits up to 28.5 V
- Do not use on computer ECM input circuits
- LOADpro Dynamic Test Leads work with any DMM

- LOADpro performs a voltage drop test with press of a button
- Steady pin probe tips - small recess allows probe to sit on connector pin
- This simple test finds hidden problems, like corroded wire/connections, bad grounds
- Reading loaded voltage is the difference that helps prevent parts swapping episodes and cut wires
- Pressing the switch applies a load of 40 mA per volt across the circuit (example: 40 mA x 12 V = .48 A of load)
- Start doing voltage drop tests now
- Related item ESI182 trouble shooting guide (available through RWD)
- Automotive, Heavy duty, Marine, RV and equipment



EECT180

Data Bus Fault Finder

EEFF500 Data Bus Fault Finder.

- Modern vehicles have 15 to 20 computers talking to each other on shared circuits that can fail
- Technicians can waste hours searching for a serial data circuit failure or use this product
- The "go to" tool to diagnose scan tool communication failures
- User controlled elimination of modules to isolate defects and find failure location
- Eliminate rogue/defective modules that lock up data bus via 12 switchable data circuits
- LED indicators that light amber for short to ground and red for short to power, plus a self test upon powering on
- 12 standard banana jacks for DMM probing
- Communicates via Data Bus Network Connector
- U.S. Patent 7,664,579
- 2 year warranty

TECHNICAL SUPPORT
1-888-704-9201



EEFF500

EEFF500-1 GM Star Cable.

- M Star Cable for EEFF500 Data Bus Fault Finder

EEFF500-2 GM Double Stack Cable.

- M Double Stack Cable for EEFF500 Data Bus Fault Finder

EEFF500-3 Breakout/Pigtail Cable.

- Breakout/Pigtail Cable for EEFF500 Data Bus Fault Finder

EEFF500-4 DC Power Cord.

- Power Cord for EEFF500 Data Bus Fault Finder

EEFF500-PB Storage Case.

- Storage Case for EEFF500 Data Bus Fault Finder



WARNING



- Do not use in environment with explosive vapor
- Read safety precautions on pages W1 to W4

TESTING AND ELECTRONICS

Circuit Testers (Blue-Point®)



ECT60660

Relay Kit

ECT60660 Deluxe Relay Test Kit.

- Kit makes testing relays or live circuits quick and easy
- Includes 8 jumpers to fit most popular relays
- Includes test lead kit for easily and securely connecting relay test jumpers to a multimeter
- Relay puller pliers easily remove electrical relays without damage to the relay or electrical box



EEFB310

Fuse Buddy Kits

EEFB310 Fuse Buddy® Pro Test Kit.

- Great tool for reading circuit amperage draws and troubleshooting up to 30 A
- Includes: 1 meter with 3 interchangeable test functions: 30 A MINI circuit current testing, 30 A ATC circuit current testing and 30 A all purpose current test
- Plugs directly into MINI and ATC fuse sockets
- Original fuse is replaced in line, thereby maintaining circuit protection
- Measuring range: 0-30 A/48 V DC – 10 seconds
- Accuracy: ±2% of reading
- Resolution: 100 mA



EEFB315

EEFB315 Max Fuse Buddy Kit.

- MAXI circuit testing capability up to 80 A
- Works with ATC and MINI circuits (adaptors included)
- Unit features peak hold functions and one touch zero function
- Use on antilock brake circuits, car stereo circuits, power distribution circuits, marine and automotive branch circuits, rear window defogger circuits, solar power dc branch circuits, traction control circuits, solar charge controller circuits and heavy duty equipment circuits
- Amps: 0-80 A DC
- Resolution: 0.1 A
- Accuracy: ±2.0% of reading + 4 digits



YA111KITA

Short Circuit Locator

YA111KITA Relay Shorting Plug Kit.

- Plugs close normally open contacts and instantly determine which half of an output circuit is suspect
- Eliminates guessing which terminals to short
- Significantly reduces diagnostic time
- Kit works on all vehicles using standard 4 and 5 pin relays
- Avoids damage to relay socket as a result of probing

YA111-10A Relay Shorting Plug.

- 10 A

YA111-15A Relay Shorting Plug.

- 15 A

YA111-20A Relay Shorting Plug.

- 20 A



YA8006

Fuse Savers

YA8006 Master Fuse Saver Kit.

- Dual type fuse box connector with 10' cord allows you to move around the vehicle shake testing wires while looking for the short
- No wasted fuses
- Includes: 5, 10, 15, 20 and 30 A resetting breaker handles, buzz alert module and 6 fuse adaptors
- Use when installing radios, CD players, radar detectors and other accessory equipment
- C E



YA8005

YA8005 Fuse Saver Kit.

- Dual type fuse box connector with 10' cord allows you to move around the vehicle testing wires while looking for the short
- Includes: 10, 15 and 20 A resetting breaker handles
- Use when installing radios, CD players, radar detectors and other accessory equipment

Accessories

YA8005-EXT 10 E xtension Cord.

- 10' extension cord

YA8005-11 Buzz Alert Adaptor.

- Buzz alert sound module



YA8026



YA8027



YA8028



YA8029

Trailer Harness Testers and Adaptors

YA8026 Towing Maintenance Kit.

- Use for 4/5 pin vehicle side circuit testing and cleaning
- Test, clean and repair truck and trailer connections
- Great preventative maintenance tool
- Extends harness life
- Eliminate guesswork, reduce down time and improve safety
- Kit includes: 4/5 pin tester, terminal cleaning tool and 2 mL tube of DeoxIT® electric contact cleaner
- Packaged in compact clamshell

YA8027 Towing Maintenance Kit.

- Use for 6 round pin vehicle side circuit testing
- Test, clean and repair truck and trailer connections plus light assemblies
- Great preventative maintenance tool
- Extends harness life
- Eliminate guesswork, reduce down time and improve safety
- Kit includes: 6 round pin tester, (2) terminal cleaning tools and 2 mL tube of DeoxIT electric contact cleaner
- Packaged in compact clamshell

YA8028 Towing Maintenance Kit.

- Use for 7 spade pin vehicle side circuit testing and cleaning
- Test, clean and repair truck and trailer connections
- Great preventative maintenance tool
- Extends harness life
- Eliminate guesswork, reduce down time and improve safety
- Kit includes: 7 spade pin tester, (2) terminal cleaning tools and 2 mL tube of DeoxIT electric contact cleaner
- Packaged in compact clamshell

YA8029 Towing Maintenance Kit.

- Use for 7 round pin vehicle side circuit testing and cleaning plus 7 round pin connector cleaning
- Test, clean and repair truck and trailer connections
- Great preventative maintenance tool
- Use as a pin wear gauge on trucks and trailers
- Eliminate guesswork, reduce down time and improve safety
- Kit includes: YA3197B 7 round pin tester, IPA8024-AS1 and IPA8024-AS2 2 round pin terminal cleaners plus 2 mL tube of DeoxIT electric contact cleaner
- Packaged in compact clamshell



MTAC110

AC Voltage Sensor MTAC110

MTAC110 AC Voltage Sensor.

- Nonintrusive AC sensor detects voltage from 110 to 600 V AC
- Use to ensure the absence of current before working on a circuit
- Move probe tip along an insulated wire, near an outlet or near a circuit breaker and tip will glow if voltage is present



TLT8003



TLT8000



TLT5



TLT6



TLT7

TLT8003 Trailer Plug Adaptor (Blue-Point®).

- Converts 12 V feed at the back of a truck or SUV trailer socket to a dual 12 V power outlet
- Powers 12 V test equipment, charging equipment and work lights in shop environment
- Recreation purposes such as running air pumps, radios or TVs while tailgating and camping
- Plugs into any 7 way spade pin trailer connection

TLT8000 3 Way Trailer Adaptor.

- Adapts 7 way connection to 6 round pin and 4/5 pin connections
- Sealed plugs to keep road debris from corroding connections
- Winged grip for easy installation and removal
- Use on medium/light duty trucks, 1/2, 3/4 and 1 ton pickups, campers and other heavy duty applications

TLT5 Trailer Harness Tester.

- Easily locates electrical problems in the tow vehicle
- Checks both 4 and 5 pin flat trailer connectors with LED indicator lights
- Tests left and right signals, brake lights and running lights

TLT6 Trailer Harness Tester.

- Checks 6 pin round trailer connectors with LED indicator lights
- Same applications as TLT5

TLT7 Trailer Harness Tester.

- Checks 7 pin round trailer connectors with LED indicator lights.
- Same applications as TLT5



YA3179B

YA3179B Circuit Chaser.

- Round pin circuit chaser for semi trailers
- Test the semi trailer plug and cable
- Both male and female ends so technician can isolate a fault to trailer or cable
- Can temporarily repair short circuits in the shop or on the road
- Includes: 5 jumper tabs and 1 replacement prong



AC41C

Electrical Brushes

AC41C Taillight Socket Brush.

- Stiff carbon steel wire bristles
- 6 5/8" long



WARNING



- Do not use in environment with explosive vapor • Use only in well ventilated area
- Read safety precautions on pages W1 to W4

TESTING AND ELECTRONICS

Leak Detectors



Portable Diagnostic Smoke Machine

EELD500 Portable Smart Smoke® Machine.

- Portability, take it under and around vehicle with optional 14.4 V Ni-Cad or 18 V Lithium battery and operate using cordless remote control or connect to vehicle 12 V battery
- Necessity, 8 of the top emission DTC codes can be diagnosed with *Smart Smoke* technology
- Computerized digital readout displays leak sizes down to 0.001" - LPM and Pressure/vacuum in H₂O
- Smart, self calibrates for .010, .020, .040" and automatically preforms EVAP pass/fail test
- One touch EVAP testing with automatic pass or fail
- Low flow mode makes it easier to find leaks
- Vacuum port adaptor to diagnose Chrysler ESIM and NVLD systems
- Find leaks, the evaporative emissions diagnostic smoke machine delivers EVAP testing and general purpose applications
- Conveniently functions with OEM specified nitrogen, portable CO₂ bottle or shop air
- Patented UltraTraceUV® dye solution pinpoints leaks
- OEM approved smoke technology
- Smoke solution is safe and does not produce unpleasant odor in the shop
- Unit ships with enough smoke solution to perform 250 tests - EELD500-1
- 3 button control display select, Orifice select and Start
- Combo LED and UV light in one and remote control are included
- Convenient hanger for under car and under hood use
- Lightweight and compact stores in large bottom roll cab drawer or hang with optional cover to protect from shop dirt and dust
- Product support: 3 year warranty, instructional video SS3229
- Patents 6,526,808 6,439,031 6,392,227
- Other patents pending

Includes:

- EELD500-1 8 oz Bottle of *UltraTraceUV* Dye Solution.
 - EELD500-2 Large Adaptor Cone.
 - EELD500-3 Vacuum Adaptor.
 - EELD500-4 Combination LED UV Light and Yellow Glasses.
 - EELD500-5 Removable Battery Clamp Lead Set.
 - EELD500-REM Remote Control.
 - EELD500-Z User Manual.
 - EELD301A2 Assorted Cap Plug Set.
 - EELD301A3 Exhaust Cone (1" x 3.5" Diameter/6" Long).
 - EELD301A4 Smoke Diffuser (for finding wind/water leaks).
 - EELD302A2 EVAP Service Port Adaptor Fitting - Standard Size.
 - EELD302A4 Dual Size Schrader Removal/Installation Tool.
- Optional Accessories for EELD500:
- EELD500C02 CO₂ Bottle and Regulator.
 - EELD500CVR Protective Cover.
 - CTC620 Battery Charger.
 - CTB4187 18 V Slide on Battery.
 - EELD500-1 Additional 8 oz Bottle of *UltraTraceUV* Dye Solution.
 - EELD500-6 2nd Smoke Hose.
 - YA4000B Vacuum Pump.
 - EELDGASCAP Gas Cap Adaptor (3 pack).
 - EELDGASBMW BMW Gas Cap Adaptor (1 each).

EELD100 Diagnostic Smoke Machine (EVAP).

- General purpose smoke machine

EELD100 Applications:

Oil leaks, E R valve, wind and water leaks, PCV valve and hoses, air cleaner assembly, mass air flow meter, vacuum switches, loose clamps, throttle body shaft, diaphragms, air valves, map sensors, exhaust manifolds, exhaust pipes and mufflers, vacuum hoses, intake gaskets, air ducts, carburetor base gasket, injector O-rings.

EELD100 Standard Accessories:

- EELD301A2 Cap Plug Kit.
- EELD301A3 Exhaust Cone Adaptor.
- EELD301A4 Wind/Water Leak Adaptor.
- EELD100-4 Combo Light.
- EELD302A1 Nitrogen Hose (optional on EELD100).
- EELD302A2 EVAP Port Adaptor (Standard Service).
- EELD302A3 EVAP Port Adaptor (Ford® Service-optional on EELD100).
- EELD302A4 Schrader Valve Core Tool.

TECHNICAL SUPPORT

1-800-901-1988

Specifications	EELD500	EELD100
Power Supply	12 V DC	12 V DC
Power Consumption	12/18 V DC, 25 A	15 A
Supply Volume	10 l/min	10 l/min
Line Length/Smoke Supply, ft (mm)	8 (2.44)	10 (3)
Line Length/Power Supply, ft (mm)	8 (2.44)	10 (3)
Line Length/Remote Control, ft (mm)	50 Range	10 (3)
Weight, lbs (kg)	11.5 (5.25)	19 (8.6)
Dimensions, inches (mm)	12 W x 9 D x 12 H (310 H x 230 D x 310 H)	13 H x 13 L x 12 W (305 H x 330 L x 254 W)

CE

Evaporative Emissions Diagnostic Smoke Vapor Producing Machines - Feature Comparison

	EELD100	EELD500
Has patented STAR technology inside: the only OEM approved smoke technology	•	•
Patented UltraTraceUV® dye solution: the only dye solution approved by any OEM, deposits dye at exact leak location	•	•
Designed with an electronic safety valve that automatically shuts off air flow into the vehicle's EVAP system every time the machine turns off. This stops gasoline fumes from possibly continually exiting the EVAP system and filling the work bay	•	•
Meets spec if OEM requires nitrogen to produce the smoke when testing the EVAP system and can use shop air for all other, non-EVAP leak testing	•	•
Approved for Flex Fuel vehicle testing	•	•
Pressure decay	•	•
Extra supply port for smoke or to apply vacuum to system being tested. EONV NVLD ESIM and other EVAP systems		•
One touch EVAP testing automatically combined and performs pass/fail test on EVAP systems with .010, .020 and .040"		•
Low flow pulsating mode finds leaks easier because its more effective than a steady low flow stream		•
Computerized digital display "orifice leak size" testing, down to zero leak size (capable of testing PZEV)		•
Computerized digital display pressure/vacuum in H2O for in depth diagnostic ability		•
Computerized digital display pressure/vacuum decay in H2O		•
Sleep mode with memory so you will not lose test results if machine shuts down after 8 minutes		•
Connect to car battery or go portable with 14.4 or 18 V Ni-Cad or lithium battery		•
Cordless remote		•
Warranty	2 year	3 year



EELD302REG



EELD302010



EELD500-1



EELD500-1

EELD302REG Gas Flow Regulator (Blue-Point).

- Quickly pops on virtually any filler neck
- Costly replacement seals are no longer needed
- One size fits all (new model vehicles may be subject to change)

EELD302010 Upgrade Kit, .010.

- 3 pack of EELD ASCAP1

EELD500-1 UltraTraceUV Smoke Solution.

- 100 psi preset regulator guarantees proper operating pressure for any smoke machine
- Easily connects to nitrogen cylinder (optional)

EELD500-1 UltraTraceUV Smoke Solution.

- Single for BMW® vehicles
- Follow the steps to install this kit into your EELR302B smoke machine
- EELD302B smoke machine will now measure leaks to .010"
- Includes solenoid assembly, o-ring and O'Keefe orifice
- UltraTraceUV brand scent-free smoke producing solution for use with EELD301A/EELD302B smoke machines
- Single 12 oz bottle
- Single 8 oz bottle

Carbon Monoxide Analyzer

MT706A Carbon Monoxide Analyzer (Blue-Point).

- Monitor and test adjustments affecting carbon monoxide emissions from gas powered vehicles, propane powered forklifts plus other combustion style equipment
- Flow indication warns of restricted emissions flow due to clogged or pinched lines
- Backlit display for ease of reading in dim light
- Range is 0 to 10% CO (approx. 100,000 PPM)
- Response time is 90% of reading in less than 60 seconds
- CE



MT706A

TECHNICAL SUPPORT
1-888-382-6522

ACT790 Combustible Gas Detector. Find leaks in fuel and exhaust systems plus verify integrity of fuel storage containers. Detectable compounds include acetylene, iso-butane (R600a), methane, ethane (R170), propane (R290), hydrogen, acetone, methanol and gasoline. Probe length of 17". Uses (4) AA alkaline batteries. Conforms with SAEJ1627 and is designed to conform with SAEJ2791. Body length of 10 3/8". Includes storage case.

- Numeric leak size indicator
- Audio mute function
- Automatic calibration
- Comfortable neoprene grip
- Intrinsic safety certified
- 3 levels of sensitivity
- Flashing probe LED visual leak indicator
- Long life sensor
- High impact injected molded instrument case
- 2 year warranty on detector, 2 years on sensor
- CE



ACT790



WARNING



- Do not use in environment with explosive vapor • Use only in well ventilated area
- Read safety precautions on pages W1 to W4

TESTING AND ELECTRONICS

Hand Held Gas Analyzers

HHGA5A Hand Held Gas Analyzer Kit (5 Gas).

Independent Hand Held 5 Gas Analyzer or use with MODIS™ Link, VERDICT™ and VERUS™ Bluetooth link.

- Fully Portable 5 Gas Analyzer, go anywhere, use anywhere
- 110 V AC and 12 V powered
- Internal rechargeable battery, up to 1 hour use
- Ideal for road testing and mobile use
- Measures exhaust emissions for CO, CO₂, HC, O₂, NO_x and AFR/Lambda
- Provides an instant assessment of an engine vehicle exhaust and catalytic converter
- MODIS, VERDICT and VERUS Link for enhanced real time viewing
- Add a 5 Gas Analyzer function to MODIS, VERDICT and VERUS
- Set up required with included software on USB stick
- Gather all the evidence required for effective and accurate vehicle diagnostics on one screen in real time
- Now see the "Big Picture"
 - 5 Gas analysis
 - Component tests
 - Scope readings
 - Digital graphing function
 - Scanner results
 - View, graph, save and recall data
 - Monitor and reduce vehicle emissions, improve driveability and fuel efficiency
- Snap-on® HH A5A is truly handheld, about the size and weight of a DMM offering True Portability
- Links to MODIS, VERUS, VERDICT and other suitable Bluetooth devices
- There are 255 memory locations in the analyzer to track and print data for the same or many different vehicles
- HH A5A is compatible with gasoline, CN, propane and diesel fuel types
- HH A5A is very sensitive and pulls only 1/14th the exhaust volume of competing analyzers. This means no problems with water ingress and pumps last longer
- Service is handled at Crystal Lake Northern Repair- Annual Cal and sensor replacement. Meets required industry standard.

TECHNICAL SUPPORT

1-888-717-1333



HHGA5A

- Problems in ignition system (Spark plugs, wires)
- Engine compression problems
- Temperature sensor malfunction
- E R Valve problems
- Dirty air filter
- Obstructed intake valve ports
- Lambda Sensor failure
- Excessive Fuel Consumption
- Misfire
- Rusted exhaust (Internal or external rust)
- Nonhomologated exhaust (Wrong back pressure)
- Melted catalytic converter
- Worn out catalytic converter
- Obstructed exhaust or catalytic converter

HHGA5A-1 Serial Lead.

HHGA5A-SP Soft Pouch.

HHGA5A-Z User Manual, HHGA5A.

HHGA5A-13 Water Trap Bung.

HHGA5A-14 Probe Connector.



HHGA4X

HHGA4X Hand Held Gas Analyzer Kit.

- 5 gas analyzer tests vehicle exhaust emissions for Nitrogen Oxide (NO_x), Carbon Monoxide (CO), Hydrocarbons (HC), Carbon Dioxide (CO₂), Oxygen (O₂) and AFR/LAMDA
- Provides ideal functionality for diagnostic work, pre-compliance testing and servicing vehicles to manufacturer's specifications
- Helps diagnose engine problems and catalytic converter failure
- Onscreen commands in 8 languages
- Can be powered by AC or 12 V
- Fully portable and is ideal for on road testing
- Magnet on analyzer and printer allows mounting almost anywhere
- Print records to infrared printer



HHGA-8

HHGA-8 Motorcycle Exhaust Probe.

- Optional motorcycle exhaust probe for HH A series gas analyzers



HHGA-9

HHGA-9 Five Gas Exhaust Probe.

- 5 gas exhaust probe for HH A series gas analyzers

HHGA-11 Filters.

- Filters for HH A Series gas analyzers



HHGA-16

HHGA-16 Ac Adaptor.

- Designed for use in the service bay



HHGA-17

HHGA-17 12 V Adaptor.

- Designed for use in the service bay or on the road

HHGA-18 Paper Roll.

- Replacement paper roll for HH A-5 infrared printer



HHGA-5

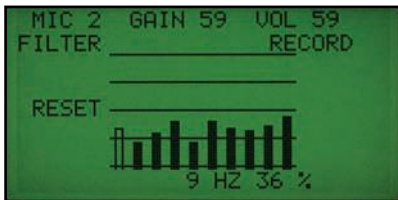
HHGA-5 Infrared Printer.

- Infrared printer for HH A series gas analyzers

Quickly pinpoint the source of noise or vibration in underhood, undercar and vehicle interiors. 6 selectable channels allow placement of sensors in various locations to pick up bearing, gear, engine, suspension, drive accessory and wind noises.



Wave Form Viewer-displays a visual representation of the audio signal



Band Pass Filter-tunes out unwanted background noises



LD6900

Electronic

LD6900 THEBIS™ Diagnostic Unit.

- Under Chassis: Differentials/CV joints, transmission/transfer cases, U-joints plus bearings, gears and suspensions
- Under Hood: Faulty fuel injectors, vacuum leaks, noisy valves and lifters
- Body: Wind and vent noise, dashboards and instrument panels
- Operate as an electronic noise and vibration detector using the inductive clamp or vent microphone attachments
- Operate as an electronic stethoscope using the listening wand and contact probe attachments
- Recorded files are stored on included USB memory stick for easy playback on PC



YA6890KT

YA6890KT Electronic Squeak and Rattle Finder (Blue-Point®).

- Quickly pinpoints source and location of noises emanating from under chassis, under hood, transmission, differential/CV joint, faulty fuel injectors and bearings, gears and suspension parts
- Helps detect and isolate squeaks, rattles, groans, cowl "pops", clunks, growls, thumps, rumbling and ticking noises
- Wireless transmitters feature magnetic body with versatile clip
- Wireless channel receiver isolates six different transmitter locations
- LED lights indicate the strength of signal of the active channel
- Illuminated button indicates active channel at a glance

YAH6890KT European Version.

YA6895 Transmitter (Channel 5) (Blue-Point).

- Optional transmitter for YA6890KT. Operates on channel 5

YA6896 Transmitter (Channel 6) (Blue-Point).

- Optional transmitter for YA6890KT. Operates on channel 6



YA6930

YA6930 Electronic Engine Stethoscope.

- Electronic Stethoscope amplifies sound during diagnosis or verification of proper vehicle operation
- Use to pinpoint faulty bearings, injectors, squeaks, rattles and more
- Mode selection switch with LED indicator easily switches between the sound and vibration functions
- Noise cancellation feature eliminates background noise
- Studio style headphone set with tangle free cord
- Detachable flex wand with LED illuminated tip
- Rotary volume control
- Lightweight and balanced with ergonomic comfort grip
- CE



WARNING



• Read safety precautions on pages W1 to W4

Stethoscopes



YA6910



YA6920



YA6910 Mini Electronic Stethoscope (Blue-Point®).

- Convenient diagnostic tool can pinpoint location of noise caused by bad bearings, bushings, dirty fuel injectors, wind and air leaks, noisy valves and lifters
- Allows user to monitor gears, bearings and suspension components under load so problems can be more accurately diagnosed
- Sensor clamp helps to detect noises during vehicle test drive that cannot be duplicated in the work bay
- Sensor tip mounted on 6" flexible shaft allows access to hard to reach areas
- 5" inductive metal probe allows user to pinpoint source of noise or vibration
- Ultra sensitive microphone provides a full range of sound
- Features a rotary style adjustable volume control
- CE

YA6920 Electronic Marine Stethoscope (Blue-Point).

- Unique diagnostic listening device specifically designed to pinpoint squeaks, rattles and other troublesome noises in most marine vessels and watercraft with inboard or outboard motors
- Test for noise and harmonic vibration on bearings, under dash areas, control cables, fuel injectors, cabinets and compartments, alternators, switches, pumps, final drives, steering gears, gear cases, steering pumps, hulls and compressors
- 14' long, water resistant wire loom harness allows user to diagnose hard to reach problem areas
- 6 spring loaded, color coded stainless steel sensor clamps with built-in super sensitive microphone in the tips for optimal sound detection
- Heavy duty professional headphones block any unwanted sounds



YA6800



MST100



GA111D

YA6800 Electronic Stethoscope (Blue-Point).

- Features 7 level sound control settings, A/B tone control, high/low volume controls, and battery check position on control stick
- Supersensitive microphone in top is attached to a flexible 9" shaft for hard to reach areas
- LED light signals when switch is on
- Earphones block outside noise
- Adjustable volume controls

MST100 Mechanic s Telescoping Stethoscope.

- Stainless steel shaft extends to a 36 1/2" overall length for easy access to hard to reach areas
- Aluminum sound chamber produces a more natural sound than plastic chambers
- Flexible tubing to ear piece aids positioning
- Rigid shaft extends, keeping hands away from heat and moving parts
- Soft comfortable ear piece is replaceable
- Comfortable soft grip handle
- Probe reverses to fit inside chamber for safe, compact storage
- Length closed with probe reversed 11"
- Length closed 15"
- Length extended 36 1/2"

GA111D Mechanic s Stethoscope.

- Locates any engine sound such as bearing noise, knocks and squeaks in fan or water pump, and valve tappets
- Sound amplifying diaphragm and a 12" probe to locate trouble

These infrared thermometers safely monitor hot, hazardous or hard to reach materials without contamination or damage to the surface. Simply point at target, pull the trigger and read the temperature on the large, backlit LCD display.

Applications:

- Pinpointing radiator core restrictions
- Checking exhaust and emission control problems
- Measuring catalytic converter temperatures
- Diagnosing exhaust manifolds for combustion problems
- Measuring tire temperatures
- Measuring race track temperatures
- Measuring bearing, rotor, drum or brake temperatures for potential problems
- HVAC-Use for temperature room balancing, check supply/return registers duct work, monitor steam traps, furnace performance plus use in energy audits
- Check bearing, rotor, brake and drum temperatures
- Food Safety: perform HACCP temperature measurements at receiving docks, take cooking temperatures, check hot and holding temperatures, ensure storage temperatures on freezers, ovens and ranges



Features	RTEMPB4*	RTEMPB120*	RTEMPB3A*	RTEMPB2A*
Temperature Range	-67° to 428 °F (-55° to 220 °C)	-7° to 248°F (-22° to 120 °C)	-58° to 932 °F (-20° to 500 °C)	0° to 500 °F (-18° to 260 °C)
Temperature Display	Selectable for °F or °C	Selectable for °F and °C	Selectable for °F and °C	1 °F or .5 °C
Response Time	0.5 Seconds	Less than 0.5 Seconds	0.5 Seconds	500 mSec, 95% Response
Emmissivity	Adjustable, set to 0.95	Pre-Set 0.95	0.98	Pre-Set 0.95
Power	3 V Lithium (Included)	CR2032 Battery	9 V Alkaline or Ni-Cad Battery	9 V Alkaline or Ni-Cad Battery
Accuracy	±2% of Reading	2% of Reading or ±3.5 °F, whichever is greater	±2% of Reading or ±2 °C (±4 °F)	±2% of Reading or ±2 °C (±3.5 °F)
Distance To Spot Ratio	1:1	1.3:1	12:1	6:1
Ambient Operating Range	32° to 104 °F (0° to 40 °C)	32° to 104 °F (0° to 40 °C)	32° to 105 °F	32° to 120 °F (0° to 50 °C)
Protective Case			Storage Case	Optional (RTEMPBPK)

CE
*Blue-Point®



Features	RTEMPB5*	RTEMP25PB	RTEMP30PBA
Temperature Range	-76° to 1,400 °F (-60° to 760 °C)	-25° to 999 °F (-32° to 535 °C)	-32° to 545 °C (-25° to 950 °F)
Temperature Display	Selectable for °F and °C	Selectable for °F and °C	0.2°C (0.5 °F)
Response Time	1 Second	Greater Than 0.5 Seconds (95% of Reading)	500 mSec
Emmissivity	Adjustable, set to 0.95	Pre-Set 0.95	Pre-Set 0.95
Power	(2) AAA Batteries	9V Alkaline or Ni-Cad Battery	9V Alkaline or Ni-Cad Battery
Accuracy	±1% of Reading	(-25 to -15 °F/-32 to -26 °C) ±5 °F (±3 °C) (-15 to -0 °F/-26 to -18 °C) ±4 °F (±2.5 °C) (0 to 73 °F/-18 to 23 °C) ±3 °F (±2 °C) (73 to 950 °F/23 to 510 °C) ±1% of Reading or ±2 °F (±1 °C) whichever is greater (Above 950 °F/510 °C) ±1.5% of Reading	±1% of Reading or ±1 °C (±2 °F)
Distance To Spot Ratio	30:1	Optimized for use at 8"; Approx. 16:1 at Focus Point	12:1
Ambient Operating Range	32° to 104 °F (0° to 40 °C)	32° to 120 °F (0° to 50 °C)	0° to 50 °C (32° to 120 °F)
Protective Case	Storage Case	Storage Case	Protective Hard Case

*Blue-Point



WARNING



• Read safety precautions on pages W1 to W4

Tachometers



EEDMRPM500



EEDMRPMD500



EEDMTACH1



contact adaptors

EEDMRPM500 Digital Tachometer (Gas Engines).

- Use to digitally read RPM on single cylinder, 2 or 4 stroke gas engines
- Choose between 2 or 4 stroke engines and 1 or 2 spark ignition systems
- Unit provides MIN/MAX readings with 8 storage locations to save readings for future reference
- Range is 300 to 10,000 rpm
- Powered by 9 V battery (included)
- Overall dimensions are 2 3/4" x 5 3/4" x 1"

EEDMRPMD500 Diesel Engine Adaptor.

- Optional diesel engine adaptor for the EEDMRPM500 digital tachometer
- Use on diesel engines only
- Range is 300 to 6,000 rpm

EEDMTACH1 Digital Tachometer.

- Combination contact/noncontact tachometer with Minimum (MIN), Maximum (MAX) and LAST or current reading
- Noncontact operation uses photoelectric sensor and reflective tape (included)
- Contact measurements are taken with 1 of 3 contact adaptors; cone, concave wheel or large wheel
- Current data will remain until the next reading is taken
- Memory figures will remain until the next recorded reading is taken

Ranges:

Photo Tach: 5 - 30,000 rpm

Contact Tach: 0.5 - 19,999 rpm

Surface Speed: 0.2 - 6,560 ft/min or 0.5 - 1,999 m/min

MTTACH1A1 Photo Tape.

Reflective photo tape for the EEDMTACH1 Tachometer.

Diesel Timing Meter

MT257B Diesel Pulse Adaptor (Blue-Point®).

- Test injector timing or engine rpm on diesel engines equipped with 1/4" or 6 mm external steel fuel injector lines
- Enables use with inductive pick up timing light to test engine timing
- Not for use on diesels with common rail fuel systems



MT257B

Specialty Meters and Small Testers



RELAYTEST1

Automotive Relay Tester

RELAYTEST1 Automotive Relay Tester.

- Quickly and accurately test 4 and 5 terminal electromechanical relays used on many U.S. and imported automobiles
- Will interrogate and identify an unknown relay terminal configuration then self configure its own internal circuitry to perform all required test functions automatically
- Can be used to perform the following tests: coil resistance, surge suppression device (resistor or diode), open/closed contact integrity, contact cyclic testing for intermittent failure detection, loaded contact continuity, relay contacts stuck open or closed and time to contact closure and opening
- Unit automatically indicates test results with a series of red, green and yellow performance lights



YA76562

Coil-on-Plug (COP) Probe

YA76562 Ignition Quick Probe (Blue-Point).

- Quickly verify the firing of a coil on plug (COP) ignition coil and spark plug
- Eliminates the need for back probing coil wires and disassembly to test at the coil connector or spark plug
- Variable sensitivity (VS) thumbwheel for greater diagnostic accuracy and expanded application coverage
- Super bright KV and ARC indicator LEDs

TECHNICAL SUPPORT

1-877-447-6276



EETL500



EETL5568



MT125A

EETL500 Digital Tach/Advance Timing Light.

EETL500 Timing Light

- Clearly view each flash with patented skip circuitry for tachometers readings up to 9,900 rpm, adjust engine rpm
- View, set and adjust ignition advance and retard: 0 to 90 - Set Base Timing, Overall Advance and View Ignition Retard
- Measure and adjust ignition dwell: 0 to 180 / 1 to 12 cylinders – Points Ignitions
- Check battery and charging voltage: 10 to 16 V with quick references LEDs
- Set Ignition Timing; Works on DIS, conventional and most aftermarket ignition systems without solid core wires
- Measure Engine RPM and Ignition Advance- Also measure dwell on older points-type Ignition Systems
- Measure battery voltage provides a quick visual indication of the current state of the battery
- Measure and display kV readings, view individual cylinder firing voltage, perform snap throttle and coil stress tests
- Patented pivoting head with Xenon strobe and dual LED flashlight makes it easy to get into tight spots and see
- Large blue backlit graphic LCD screen, clearly view the displayed information
- Timing on both 2 and 4 Cycle (DIS and Conventional) engines, 1-12 cylinders, no adaptors required
- Replaceable heavy duty test leads
- Bright high intensity flash
- Nostalgic look with diamond plate chrome underside
- Comes with a hard case for storage and protection
- Full 2 year warranty
- Patents D377,622, 4,594,886 and 5,767,681 apply

EETL500-2 Inductive Pickup Leads.

EETL500-PB Storage Case.

EETL500-Z Instruction Manual for EETL500.

EETL5568 Digital Timing Light (Blue-Point®).

- Multifunction timing light works on all distributorless and conventional ignition systems
- Skip circuitry tests tachometer readings up to 9,900 rpm
- View, set and adjust ignition advance and retard from 0 to 90
- Measure and adjust ignition dwell from 0 to 180/ 2 to 12 cylinders
- Measure battery and charging voltage from 10 to 16 V
- Dual display backlit screen allows clear viewing of tachometer and ignition advance reading
- Pivoting barrel allows easy access and a clear view to ignition timing marks

MT125A Self Powered Timing Light.

- Self powered timing light features a single 6' inductive pick up
- Quick attachment to spark plug wires on motorcycles, marine motors, snowmobiles, jet skis, small engines and other equipment that do not have easy access to a battery power source
- Can be used for automotive applications as well
- On/Off switch is located within thumb reach

Computer Memory Savers

EESM500 Memory Saver.

- Provides 12 V power to vehicle's computer system to save settings for the radio, seat position, DTCs, keyless entry and more when 12 V battery is disconnected for service
- Connects to the vehicle through the built in 42" OBDII cable (18 ga.) or 12 V accessory cable (EESM500-3); both store neatly and conveniently in zippered pouches
- Informative and intelligent LED control panel
 - LED panel shows 3 color display when test button is pushed
 - Red-Yellow-reen or ALL indicate internal battery charge level
 - Red blinks when internal battery needs charging
 - Charging LED will light amber when ac charger is plugged in
 - Blue indicates full charge at 100%
- On/Off switch ensures unit is off for storage and transport
- Wall charger (EESM500-4) included to keep the internal battery ready
- Soft side case will not scratch or dent vehicle's interior and console like a traditional unit's hard plastic housing
- Nonskid bottom will not slip and it protects vehicle surfaces
- Lightweight soft side case is easy to carry and store
- Unit measures 13" W x 8" H x 7 1/2" D and weighs 7.7 lbs
- Battery capacity is 5 Ahr

General Repair, Body, Road Side Assistance Trucks, Battery Specialists, OEMs, National Accounts, Motorcycle/ Marine, Electrical Car stereo, Schools, Fleets with 12 V, Government, Auto Part Stores and more



EESM500

TECHNICAL SUPPORT

1-888-704-9201

EESM500-1 DC Battery Clamp.

- Optional DC Battery Clamp for EESM500 Memory Saver

EESM500-2 USB Accessory Cable.

- Optional USB Accessory Cable for EESM500 Memory Saver

EESM500-3 12V Accessory Cable.

- 12 V Accessory Cable for EESM500 Memory Saver. Male to Male, 48" long

EESM500-4 110V Charger.

- 110 V Automatic Charger for EESM500 Memory Saver. UL® Listed. Input: 100 to 240 V. Output: 16.5 V/65 A



WARNING



• Read safety precautions on pages W1 to W4

TESTING AND ELECTRONICS

Computer Memory Saver



YA960

YA961



TLM12AO



EECS5MEM



YAGM1

Computer Memory Savers

YA960 Computer Memory Saver.

- Prevents memory loss on digital radios, clocks, door locks, and computers when disconnecting vehicle battery
- Plugs into cigarette lighter socket
- Uses a 9 V battery to keep "memories" alive for up to four continuous hours
- Use YA961 on Chrysler products

YA961 Computer Memory Saver.

- Similar in function to YA960 except its power source is any 120 V AC outlet
- Will work on all vehicles

TLM12AO Computer Memory Saver.

- Saves computer memory on clocks, radio settings and fuel injection systems
- Simply plug into 12 V accessory, then attach battery clamps to spare battery

EECS5MEM OBDII Memory Cord, 5.

- Use in conjunction with a jump starter to preserve vehicle codes and electronic presets while a vehicle's battery is disconnected
- Turns any jump starter with a 12 V power port into a memory saver
- Interface connector between a jump starter and a vehicle's OBD II port
- Prevents electronic memory loss when disconnecting a vehicle's battery
- LED confirms a proper connection has been made to OBD II port

Service Light/Airbag Resetting Tools

YAGM1 Air Bag Release Tool.

- Tool will quickly and easily release the retention springs for the removal of the SIR module on certain late model GM® vehicles

Applications: Cadillac®, Buick® Park Avenue, Pontiac® Grand Am®, minivans and trucks

Electrical



FZ4B



YA9811



FZ7A



GMSTB25

Fuse Tools

FZ4B Fuse Tongs. Delrin tongs pull fuses up to 15/16" in diameter. A 1/8" hook on the handle pulls short fuses. Tongs have high insulating qualities and are resistant to oil, water and heat up to 300 °F. Hand stops prevent slipping.

FZ7A Fuse Tongs. Nylon tongs remove auto high tension wires and pull cartridge fuses from 15/16 to 1" in diameter. Has hooks on handles and jaws. Tongs have high insulating qualities and are resistant to oil, water and heat up to 300 °F. Hand stops prevent slipping.

YA9811 Relay/Fuse Pliers. Remove/install relays and fusible links. Designed to reach into confined access areas. Features convenient slip joint design to enable use for a variety of sizes. Coated pliers tip securely grips corner of relay or fusible link. Black industrial finish with red cushioned grip handles. 8" in length.

Multifunction Switch Tools for GM vehicles

GMSTB25 Multifunction Switch Tool for GM vehicles. Reduces the time it takes to replace the multifunction switch (turn signal/dimmer/windshield wiper switch). Tool includes a low profile 1/4" bit wrench with a T25 Ball Torx® bit that allows better control and access in restricted areas. Conveniently remove/install the multifunction switch on GM vehicles. Allows the multifunction switch to be removed and installed without removing the air bag, steering wheel and clock spring. Reversible ratchet action speeds tightening/loosening. Heat treated for strength and durability. Chrome plated for great appearance and wear resistance. Magnetic bit retention to allow for easy replacement of bits. Please visit www.snapon.com for the full application listing.

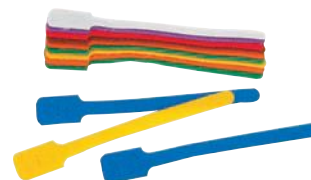
Wire Installation Tools

GOFER1A Wire Installation Tool. Designed for quick installation of wires for stereo systems, alarm systems, cellular phones, vacuum hoses and air shock supply lines. Conical shaped collet provides secure wire retention when threading wires. Will push or pull wires through openings.

GOFER4A Holding Straps. 1/2" wide by 8" long Velcro® fastening holding straps. Use to organize and hang tools in the shop, or to separate or retain hoses or wires during engine service. Also helpful for sorting wiring during test, for holding scope or meter leads together, or a multitude of other applications. 12 straps included in 8 different colors.

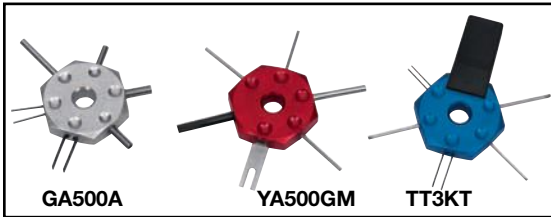


GOFER1A



GOFER4A

Terminal Tools



GA500A

YA500GM

TT3KT



TT600



TT12KT



SGTT106A



SGTT110

Terminal Tools

GA500A Wire Terminal Tool.

- Prongs depress the bars on conventional terminals

YA500GM Wire Terminal Tool.

- Designed for use for Pack-Con and Weather-Pack terminals on M[®] C3 systems

YA500F Terminal Tool for Ford[®] Vehicles (Blue).

- Use on Ford terminals

TT3KT Terminal Tool Set.

- Comprehensive set covers the majority of today's popular terminals
- Includes: A500A, YA500 M, YA500F and TT3-1 handle that slips over probes to protect technician's hands and provides extra leverage

YA13120 Electrical Connector Separator. Disconnect electrical connectors without damage. Double ended to fit different access angles. Easy to use. Simply engage the tool tip behind the connector clip and push or pull to disconnect. Works on weather pack and other automotive electrical connectors.

TT600 Terminal Tool Kit. Includes 6 tools for removing terminals from harness blocks: pin vise, square probe, wedge probe, tube probe, flat probe, and hook probe. Tools come in a vinyl pouch.

TT12KT C3/Wire Terminal Tool Kit for GM vehicles.

Applications include most GM and other U.S. computer connectors and terminals. Individual handles for easy access in tight places. Designed for weather pack and Pack-Con terminals with flat blade to open connectors and fork for ALDL connectors to access trouble codes. Color coded: Red handle for GM and Green for wire terminal tools. Includes molded storage case.

TT1201 3.3 X 28 mm terminal tool.

TT1202 1.4 X 28 mm square terminal tool.

TT1203 1.5 X 24.75 mm flat terminal tool.

TT1204 2.0 X 22 mm flat terminal tool.

TT1205 8.0 X 24 mm fork terminal tool.

TT1206 3/16" X 1.0" flat screwdriver.

TT1207 3.3 X 28 mm tube terminal tool.

TT1208 4.3 X 13 mm tube terminal tool.

TT1209 3.75 X 13 mm tube terminal tool.

TT1210 3 X 13 mm tube terminal.

TT1211 3 mm flat 2 blade terminal tool.

TT1212 1.6 mm flat 2 blade terminal tool.

TT1213 blow molded case.

Kit includes these GM C3 System terminal tools (red handle):
 tube, spring loaded, 3.3 x 28 mm
 square blade, 1.4 x 19.00 mm
 flat blade, 1.5 x 24.75 mm
 flat blade, 2.0 x 23.00 mm
 fork blade, 8.0 x 24.00 mm
 flat blade screwdriver,
 3/16" x 1.00"

Kit includes these wire terminal tools (green handle):
 tube, 3.30 x 28.0 mm
 tube, 4.30 x 13.0 mm
 tube, 3.75 x 13.0 mm
 tube, 3.00 x 13.0 mm
 flat twin blade, 3.0 mm
 flat twin blade, 1.6 mm

Soft Grip Terminal Tools

Easily remove terminals from electrical connectors found on mid-1990s and later U.S. and import vehicles. Terminal tools incorporate a stainless steel design with ergonomic soft grip handles.

SGTT1A Soft Grip Terminal Tool. Use on PCM and transmission harnesses found on Chrysler[®], Hyundai[®], Kia[®] and Mitsubishi[®] vehicles. 4 13/16" long.

SGTT2A Soft Grip Terminal Tool. Provides robust narrow width blade with fulcrum for easier access to release tabs found on newer terminal blocks. General purpose release tool for U.S. and import vehicles. 5 1/8" long.

SGTT3A Soft Grip Terminal Tool. Use on underhood sensors such as coolant temperature and throttle position sensors. For use on Ford, GM (including Cadillac[®]), Chrysler, Mitsubishi and Hyundai vehicles. 4 13/16" long.

SGTT4A Soft Grip Terminal Tool. Use for cutting open wire harnesses for easy access to troubleshooting and replacement applications. Easily slits harness sheathing without piercing the wires inside. 4 3/8" long.

SGTT5A Soft Grip Terminal Tool. Use on 55 pin ABS ECU s found on Ford, GM, Jaguar[®], Jeep[®], Volvo[®], VW[®], BMW[®], Hyundai, Kia and Mercedes[®] vehicles. 4 13/16" long.

SGTT6A Soft Grip Terminal Tool. Use on 35 pin ABS ECU s found on Audi[®], BMW, Chrysler, Ford, GM, Infiniti[®], Isuzu[®], Jaguar, Mazda[®], Mercedes, Mitsubishi, Nissan[®], Porsche[®], Subaru[®], Saab[®], Volvo and VW vehicles. 4 13/16" long.

SGTT7 Soft Grip Terminal Tool. Applications: Powertrain Control Modules (PCM) on Acura[®], Audi, Chrysler, Ford, Hyundai, Jaguar, Kia, Mercedes, Mazda, Toyota[®] and Volkswagen vehicles. 4 27/32" long.

SGTT8 Soft Grip Terminal Tool. Applications: Powertrain Control Modules (PCM) on Acura, Audi, Buick[®], Chrysler, Ford, GM, Honda, Jaguar, Mercedes, Mazda, Toyota and Volkswagen vehicles. 4 27/32" long.

SGTT9 Soft Grip Terminal Tool. Applications: Powertrain Control Modules (PCM) on Acura, Audi, Chrysler, Jaguar, Hyundai, Kai, Mercedes, Toyota and Volkswagen vehicles. 4 27/32" long.

SGTT10 Soft Grip Terminal Tool. Applications: Open connector clips and sides of clips on Acura, Audi, Chrysler, Honda[®], Mercedes, and Volkswagen. 4 27/32" long.

SGTT106A Soft Grip Terminal Tool Set. Includes SGTT1A thru SGTT6A (6 pcs) in kit bag.

SGTT110 Soft Grip Terminal Tool Set. Includes SGTT1A thru SGTT10 (10 pcs) in storage tray.



WARNING



- Plastic coated handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

FUEL AND ENGINE SYSTEMS

Compression Gauge Sets and Adaptors



EEPV500



EEPV503

Compression Gauge Sets

- Intended for use on spark ignited gasoline engines that do not exceed 300 psi compression
- Uses hose adaptors that thread into the spark plug hole and connect at the gauge hose's quick coupler
- Maintains highest compression test reading and resets to zero with a push button release valve
- Gauge displays individual cylinder pressure
- Test range: 0 to 300 psi (0 to 2,000 kPa) in 10 psi (50 kPa) increments

EEPV500 Compression Gauge Set.

- Test late model cars and trucks with hard to access spark plug ports
- Gauge assembly includes 2 3/4" diameter gauge and 27" flexible hose with quick coupler
- Includes EEPV5 12L, EEPV5 14L and EEPV5 14S

EEPV503 Motorcycle Compression Gauge Set.

- Test motorcycles and recreational vehicles with hard to access spark plug ports
- Gauge assembly includes 2 3/4" diameter gauge and 18" flexible hose with quick coupler
- Includes EEPV5 10L, EEPV5 12L and EEPV5 14L

Compression Gauge Adaptors

- 10 1/4" overall length unless otherwise noted
- Standard reach applies to flat and tapered spark plug hole seats; long reach applies to servicing motorcycle engines



EEPV5G10L



EEPV5G14L



EEPV5G18S



EEPV5G10S

EEPV5G10L Compression Gauge Adaptor.

- Long reach (M10 x 1.0 pitch)
- Thread length .70 inch

EEPV5G14L Compression Gauge Adaptor.

- Long reach (M14 x 1.25 pitch)
- Thread length .73 inch

EEPV5G18S Compression Gauge Adaptor.

- Standard reach (M18 x 1.5 pitch)
- Thread length .44 inch

EEPV5G10S Compression Gauge Adaptor.

- Standard reach (M10 x 1.0 pitch)
- Thread length .43 inch



EEPV5G14S



EEPV5G16T



EEPV5G12L



EEPV5G12T

EEPV5G14S Compression Gauge Adaptor.

- Standard reach (M14 x 1.25 pitch)
- Thread length .36 inch

EEPV5G16T Compression Gauge Adaptor.

- Long reach (M16 x 1.5 pitch) for Ford® 5.4 L Triton® engines
- 18" length

EEPV5G12L Compression Gauge Adaptor.

- Long reach (M12 x 1.25 pitch)
- Thread length .68 inch

EEPV5G12T Compression Gauge Adaptor.

- Main application 2nd generation Ford Triton engines 2008 and later
- Tests cylinder compression up to 300 psi
- Additional applications include: Mercedes® (most V6 and some V8 models newer than 2006), Nissan® (2.0 L 2007 and later) plus Toyota® Scion (1.8 L 2008 and later) vehicles
- 18" length
- Thread length .71 inch

Cone Type Compression Gauge

MT27C Cone Type Compression Gauge.

- Dial reads from 0 to 250 psi in 5 psi increments (0 to 1,700 kPa in 20 kPa increments) and is specially designed for Type I VW® vehicles
- Offset stem overcomes clearance problems
- Check valve located at bottom of unit to avoid interference with cooling shroud sheet metal

MT27BR Service Kit.

- Included with MT27C gauge
- Contains cone tip, valve and sealing ring in drawstring bag



MT27C

EEPD500 Diesel Compression Gauge.

- Dial reads from 9 to 800 psi and from 0 to 5,500 kPa
- Gauge includes 18" hose with release valve



EEPD500

Compression Adaptors - Injector Style

EEPV313A Diesel Compression Gauge Adaptor.

- For 1998 to 2007 Dodge® 24 valve 5.9 L Cummins® plus 5.9 L and Cummins ISB and ISB E diesel engines plus the 2007 newer 6.7 L

M3540A Compression Adaptor.

- For Cummins 855 cu in and NH 903 V8 L10 diesel engines

M3543A Diesel Compression Gauge Adaptor.

- For Detroit® 53, 71, 92 and 8.2 L diesels

M3542A Diesel Compression Gauge Adaptor.

- For Volkswagen®, Mercedes-Benz®, Volvo® and Audi® 5000 diesel engines M24 x 2.0

M3571 Diesel Compression Gauge Adaptor.

- For 21 mm injectors and Bosch® type injectors on the following diesel engines: Allis® Chalmers® 433, 649, and 670, Allis/Fiat® 3 cylinder, John Deere® 404, 466, 531 and 619, Navistar® 361 and 407, Perkins 4.203, 4.236, 4.248, 6.354, and 8.540, Wisconsin Engine® 340, 350, 430, 660, 670, 750, 860 and 1000, White Engine® D2000, D2300, D3000, D3400, and D4800, Mack 673, 674, 675, 864, 865 and 866, Waukesha® diesel engines, Ford® Tractor diesel engines, Scania® DN11 and DS11



EEPV313A



M3540A



M3543A



M3542A



M3571



M3572



M3574



M3584



M3585

M3572 Diesel Compression Gauge Adaptor.

- For pencil type injectors on the following: Caterpillar® 3208 and 1100 Series, Case® 70 Series, 188 and 207, John Deere early 300, 400 and 500 Series, 276, 404 and 531 diesel engines

M3574 Diesel Compression Gauge Adaptor.

- For 17 mm injectors on Navistar DT466 and 9L, 312, 360, 414, 436 and 446 diesel engines

M3584 Compression Adaptor.

- For Case/Cummins Series B 2.9, 3.9 and 5.9 L diesel engines

M3585 Compression Adaptor.

- For Case/Cummins Series C 8.3 L engines



EEPV312A



EEPV314A



EEPV315A



EEPV317A



M3545B



M3569A



M3570A



M3564



M3565A



M3566



M3576

Compression Adaptors - Glow Plug Style

- All M series glow plug style adaptors plus the EEPV312A adaptor require the use of either the M3569 or M3570 quick coupler
- EEPV314A, EEPV315A and EEPV317A couple directly to the EEPD500

EEPV312A Glow Plug Compression Adaptor.

- For M® Duramax 6600 and Isuzu 6.6 L diesel engines

EEPV314A Glow Plug Compression Adaptor.

- For Ford/Navistar 7.3 L Powerstroke diesel engines

EEPV315A Glow Plug Compression Adaptor.

- For Volkswagen 1.9 L TDI diesel engines

EEPV317A Glow Plug Compression Adaptor.

- For Ford Powerstroke 6.0 L and Navistar®/International® 6.0 L VT365E engines with 14M x 1.25 glow plug size

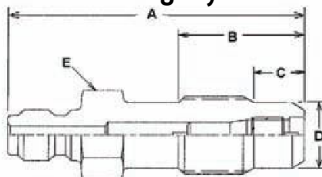
M3545B Glow Plug Compression Adaptor.

- For GM 4.3 and 5.7 L plus Navistar 6.9 and 7.3 L diesel engines

M3569A Quick Coupler.

- 45° offset

Glow Plug Style



M3570A Quick Coupler.

- 90° offset

M3564 Glow Plug Compression Adaptor.

- For GM 6.2 and 6.5 L diesel engines

M3565A Glow Plug Compression Adaptor.

- For Isuzu® 1.8 and 2.2 L diesel engines and Toyota® 1.8 L diesel engine

M3566 Glow Plug Compression Adaptor.

- For Toyota and Nissan® 2.2 L diesel engines, plus Mitsubishi® 2 and 3 cylinder engines

M3576 Glow Plug Compression Adaptor.

- For BMW® 2.4 L engines used in 1984 and 1985 Lincoln®, Mark VII and Continental models; Peugeot® 1978 to 1984, 2.0 and 2.3 L engines; VW, Audi, and Volvo 1.5, 1.6, 2.0 and 2.6 L engines

Adaptors

Stock No.	Thread	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E (Hex)
EEPV312A	M10 X 1.25	4.12 (104.65)	3.00 (76.20)	2.50 (63.50)	.320 (8.13)	12 mm
EEPV314A	M10 X 1.0	3.33 (84.58)	2.78 (70.61)	2.31 (58.67)	.315 (8.00)	10 mm
EEPV315A	M10 X 1.0	2.05 (52.07)	1.50 (38.10)	1.03 (26.16)	.315 (8.00)	10 mm
M3545B	M10 X 1.0	1.78 (45.20)	1.06 (26.92)	.38 (9.65)	.385 (9.77)	3/8 in
M3564	M10 X 1.0	2.46 (62.48)	.79 (20.00)	.25 (6.35)	.325 (8.25)	3/8 in
M3565A	M10 X 1.25	2.50 (63.50)	1.61 (26.92)	.866 (21.99)	.320 (8.13)	12 mm
M3566	M10 X 1.25	1.96 (49.78)	1.27 (32.26)	.39 (9.14)	.315 (8.00)	12 mm
M3576	M12 X 1.25	1.77 (44.95)	1.08 (27.43)	.300 (7.62)	.305 (7.75)	12 mm



WARNING



- Do not expose gasoline or fuel to flames, sparks or other sources of ignition
- Use only in well ventilated areas • Read safety precautions on pages W1 to W4

FUEL AND ENGINE SYSTEMS

Cylinder Leakage/Engine Vacuum Gauges and Tester



EEPV509

EEPV509 Cylinder Leakage Tester.

- Use on all U.S. and import engines
- Input pressure gauge displays input air pressure for proper cylinder leakage test set up and accurate results
- Pressure gauge range is 0-100 psi (0-700 kPa) in 2 psi (20 kPa) increments
- Cylinder leakage gauge displays leakage as a percentage of input pressure with 3 distinctive zones of high, moderate and low



EEPV511

EEPV511 Vacuum Pressure Gauge Set.

- Use for almost all basic vacuum pressure testing needs in the shop
- Perform engine vacuum tests on gasoline engines as well as exhaust back pressure tests on applications with an oxygen sensor
- Test vacuum accessories and emission control devices such as EGR valves canister purge systems, air switching and divert valves, vacuum delay and check valves, heater and A/C controls and cruise control systems
- Multicolor gauge face with scales of inch, Hg, psi, negative kPa and positive kPa



EEPV508

EEPV508 Automatic Transmission Pressure Gauge Set.

- Use on all major manufactured U.S. and import vehicles
- High pressure gauge (0-500 psi/0-3,500 kPa over pressure protected to 1,500 psi) assembly includes 3 1/2" diameter gauge and 10" flexible hose with fluid coupler
- Low pressure gauge (0-100 psi) assembly includes 2 1/2" diameter gauge and 6" flexible hose with fluid coupler



EEPV507

EEPV507 Oil Pressure Gauge Set.

- Use on diesel and gasoline engines
- Includes standard and metric adaptors for most U.S. and import cars, trucks, tractors and stationary engines
- Includes: 0-100 psi (0-700 kPa) gauge assembly

Stock No.	Description	EEPV508	EEPV507
EEPV5F-1	2" Pipe Nipple	•	•
EEPV5F-2	1/4"M x 1/8"F Hex Bushing	•	•
EEPV5F-3	3/8"M x 1/8"F Hex Bushing	•	•
EEPV5F-4	1/8"FNPT Coupling	•	•
EEPV5F-5	1/8"M x 1/8"F Street Elbow	•	•
EEPV5F-6	1/8"-28 BSPT	•	•
EEPV5F-7	M10 x 1.0 Tapered Thread	•	•
EEPV5F-8	M10 x 1.0 Adaptor	•	•
EEPV5F-9	M10 x 1.25 Adaptor	•	•
EEPV5F-10	M12 x 1.5 Adaptor	•	•
EEPV5F-11	M12 x 1.75 Adaptor	•	•
EEPV5F-12	M14 x 1.5 Adaptor	•	•
EEPV5F-13	M16 x 1.5 Adaptor	•	•
EEPV5F-14	M18 x 1.5 Adaptor	•	•
EEPV5F-15	5/16"-24 Adaptor	•	•
EEPV5F-16	7/16"-20 Adaptor	•	•
EEPV5F-17	1/16"-27 Adaptor	•	•
EEPV5F-18	M8 x 1.0 Tapered Thread	•	•
EEPV5F-19	M8 x 1.0 Adaptor	•	•
EEPV5F-20	M8 x 1.25 Adaptor	•	•
EEPV5F-0	Male Quick Connect Plug	•	•
EEPV5F-100G	100 PSI Gauge and Boot	•	•
EEPV5F-BOOT1	100 PSI Gauge Boot	•	•
EEPV5F-500G	500 PSI Gauge and Boot	•	•
EEPV5F-BOOT2	500 PSI Gauge Boot	•	•

YA4000B Automotive Test Kit (Blue-Point®)

- Produces vacuum or pressure at the turn of a switch
- Comfortable ergonomic design
- One finger trigger vacuum/pressure release
- Durable, accurate diaphragm style pressure/vacuum gauge
- CE

Applications:

Vacuum and pressure related engine performance diagnostics and tune-ups. Brake bleeding and fluid transfer/evacuation.



YA4000B

Fuel Systems

EEFI Series Adaptor Sets

EEFI500 Master Fuel Injection Pressure Gauge Set.

- Tests fuel injection pressure on major U.S., European and Asian model multiport fuel systems
- Convenient label shows image of components, part numbers and applications for quick easy identification and storage
- Fully detailed user manual includes test connection illustrations and application charts
- Set contains a tee manifold with shut off valve, a 3 1/2" diameter gauge assembly with a blow down valve and the adaptors needed to test most fuel injection systems
- Blow molded case with special removable lid allows for convenient storage in 4" deep drawer and easy access to components
- Pressure gauge rating of 0 to 100 psi

EEFI500CORE Core Fuel Injection Pressure Gauge Set.

- For basic fuel injection pressure service needs
- Individual components or the EEFI500ADD set can be purchased to build up to master set
- Includes:
 - EEFI5001 gauge and hose assembly with bleed-off valve
 - EEFI5002 standard schrader hose assembly (Chrysler®, M®, M-B, Porsche®, Saab® and Saturn® vehicles)
 - EEFI5003 small schrader hose assembly (BMW®, Ford®, Jaguar®, Kia®, Lincoln®, Mazda®, Mercury®, Mini®, Volvo® and VW® vehicles)
 - EEFI5004 standard schrader right angle adaptor (Chrysler, GM, M-B, Porsche, Saab and Saturn)
 - EEFI5005 small schrader right angle adaptor (BMW, Ford, Jaguar, Kia, Lincoln, Mazda, Mercury, Mini, VW and Volvo vehicles)
 - EEFI5006 Tee adaptor with 1/4", 5/16" and 3/8" diameter hoses and clamps (Chrysler, Infiniti®, Isuzu®, Mazda, Nissan, Saturn and Suzuki® vehicles)
 - EEFI5006-1 replacement hoses and clamps
 - EEFI5007 spare parts service kit for EEFI5001 thru EEFI5006

EEFI500ADD Set

- Combine the components of the EEFI500ADD set with the EEFI500CORE set to form the EEFI500 master fuel injection pressure gauge set



EEFI500



EEFI500CORE

Stock No.	Description
EEFI5008	Tee Hose Assembly - 3/8" Quick Connect
EEFI5009	3/8" Quick Connect Double Male - GM vehicles
EEFI50010	5/8" Spring Lock Male - Ford, Mazda vehicles
EEFI50011	5/8" Spring Lock Female - Ford, Mazda vehicles
EEFI50012	5/16" Quick Connect Male - Acura, Chrysler, Ford, Mazda, Toyota vehicles
EEFI50013	5/16" Quick Connect Female - Acura, Chrysler, Ford, Mazda, Toyota vehicles
EEFI50014	5/16" Male Hose Adaptor- BMW, Chrysler, Infiniti, Nissan, VW vehicles
EEFI50015	5/16" Hose Adaptor- BMW, Chrysler, Infiniti, Nissan, VW vehicles
EEFI50016	M14 x 1.5 Inverted Flare Male- Geo, Infiniti, Toyota vehicles
EEFI50017	M14 x 1.5 Inverted Flare Female- Geo, Infiniti, Toyota vehicles
EEFI50018	M14 x 1.5 Ball Seat Female- Audi, Hyundai, Jaguar, Land Rover, Porsche, Volvo, VW vehicles
EEFI50019	M14 x 1.5 Ball Seat Male- Audi, Hyundai, Jaguar, Land Rover, Porsche, Volvo, VW vehicles
EEFI50020	16 mm O-Ring Adaptor- Hyundai, Mitsubishi vehicles
EEFI50021	11 mm O-Ring Adaptor- Infiniti, Kia, Mitsubishi, Nissan vehicles
EEFI50022	M12 x 1.0 Pulse Dampener Adaptor- Acura, Honda vehicles
EEFI50023	M12 x 1.5 Banjo Bolt Adaptor- Audi, Porsche, Saab vehicles
EEFI50024	M12 x 1.25 Banjo Bolt Adaptor- Honda, Hyundai, Isuzu, Lexus, Toyota vehicles
EEFI50025	M6 x 1.0 Filter Adaptor- Acura, Honda vehicles
EEFI50026	Spare part service kit for 5009 thru 50025 adaptors

EEFI50030 Universal Fuel Pressure Adaptor.

- Allows owners of MT337, EEFI301 and EEFI307 series fuel pressure gauges to increase applications by using components from the EEFI500 master fuel injection pressure set



EEFI50030



WARNING



- Do not expose fuel or solvents to flames, sparks or other sources of ignition
- Use only in well ventilated areas • Read safety precautions on pages W1 to W4



EEFI5CLEANER



FIH500



YA76462



EEDF500



EEDF501

General Purpose Fuel System Cleaners

EEFI5CLEANER Fuel Injection System Cleaner.

- Cleans deposits from fuel injectors, fuel rail and intake valves to restore engine performance, lower emissions and smooth idle
- Canister style cleaner accepts preferred or required fuel injection system cleaner (sold separately)
- Check vehicle fuel pressure with right hand gauge and easily set cleaning pressure with the left hand gauge
- Stainless steel braided Teflon® hose resists solvents
- Conveniently hangs under hood with center chain
- Compatible with EEFI500 series adapters (sold separately)
- See user manual for vehicle make details

Specialty Service Tools

FIH500 Fuel Module Disconnect Tool.

- M® fuel module disconnect tool for 1998 and later GM full size pickups, Suburban and Tahoe vehicles
- 2 piece design permits easy access to the connectors
- Slide proper end into the connector, rotate and slide the other half in place to disconnect module
- Fits both 3/8" and 5/16" connector sizes
- Tool segments can be clipped together for convenient storage

YA76462 Universal EFI Quick Probe (Blue-Point®).

- Quickly detects electronic fuel injector functions on any gas or diesel engine
 - Specifically designed to detect vibrations emitted when electronic injector fires
- No hunting for injector wires to test at connector
- No need to remove injector for testing
- Includes: bright LED strobe, 7" removable probe tip, user guide, battery operation and sensitivity thumb wheel

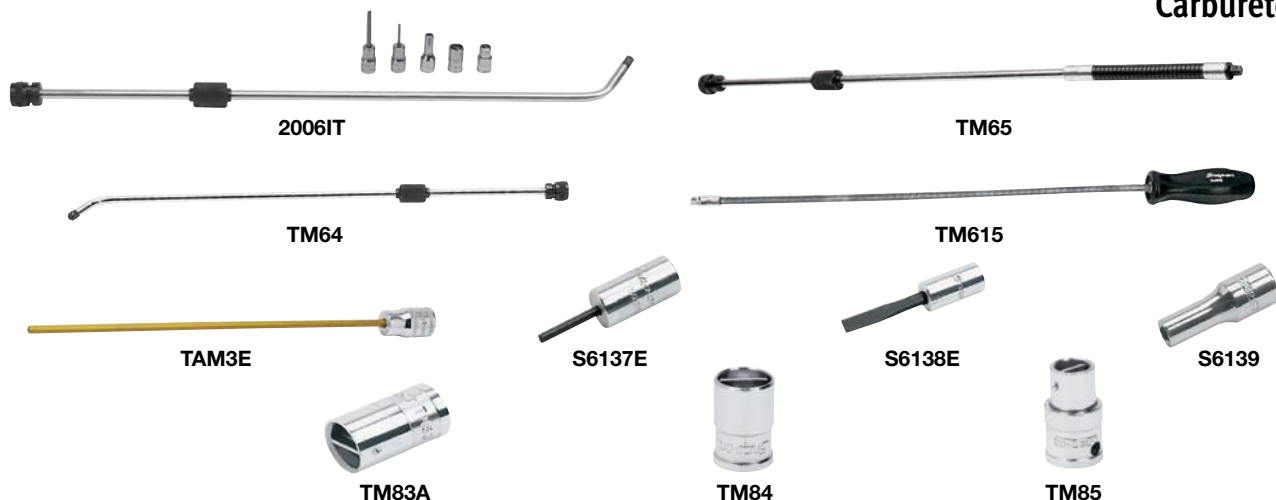
Fuel Pressure Testers

EEDF500 Fuel Pressure Test Set.

- Designed for testing diesel fuel pressure and vacuum on M 6.6 L Duramax® engines
- Gauge assembly includes a compound gauge with a 0-15 PSI (0-100 kPa) pressure plus 0-30 inHg vacuum scale and a protective rubber boot
- Long 6' flexible hose with quick coupler for fast and easy connection to the engine
- Convenient protective storage and carrying in a slide lid case that fits easily into a 4" drawer

EEDF501 Fuel Pressure Test Set.

- Designed for diesel fuel pressure and restriction testing on engines with *Compucheck* test ports
- 3 1/2" compound gauge has a 0-15 PSI (0-100 kPa) pressure and 0-30 inHg vacuum scale
- 2 1/2" pressure gauge has a 0-300 PSI (0-2000 kPa) scale in 10 PSI (50 kPa) increments
- Includes female *Compucheck* quick coupler with 6' hose, pressure bleed off, and quick connect for easy interchange of the 2 gauges
- Includes separate male *Compucheck* test port for installation in vehicles without *Compucheck* test ports
- Convenient protective storage and carrying in a slide lid case that fits easily into a 4" drawer



Carburetor Adjustment Tools

2006IT Carburetor Adjusting Set.

Includes: S6137E, S6138E, S6139, TM64, TM83A, TM85

S6137E Idle Adjusting Hex Head Driver.

- For 1978 and later Chrysler® vehicles
- 3/32" hex driver is 1 9/16" long
- Nickel-chrome finish socket
- 7/16" OD
- 1/4" drive industrial finish bit

S6138E Idle Adjusting Driver.

- For Ford® feedback carburetors
- 7/16" OD
- 1/4" drive
- Bit has a 3/16" x 1/32" flat tip, 2" long
- Nickel-chrome finish socket, industrial finish bit

S6139 Double D Carburetor Adjusting Socket.

- For 1978 and later M® idle adjusting screw
- OD drive end is 7/16"
- Nickel-chrome finish
- 3.5 mm across flats
- 1/4" drive
- 13/16" long

TM64 Rigid Adjusting Tool.

- Rigid elbow bend rather than flexible feature
- Use with carburetor drivers for making carburetor and point adjustments
- Rigid shaft
- Overall length is 18 1/4, 1/4" drive

TM65 Flexible Adjusting Tool.

- Flexible shaft end for working in restricted areas
- Overall length is 19 3/4, 1/4" drive
- Ideal for working in tight spaces when servicing window type distributors
- Knob markings allow for counting turns

TM615 Flexible Driver.

- 1/4" drive
- Designed for carburetor work, this driver can also access buried distributors
- 1/4" drive at the end of a tough but flexible spring steel shank
- 18 5/8" long
- For low torque applications
- Ideal to access buried adjusting screws
- Cable length is 15"; overall length is 18 5/8"

TM83A Recessed Blade Carburetor Screwdriver.

- 1/4" drive
- Use with TM64 or TM65 and other 1/4" square drive handles
- Blades are recessed in outer socket wall to self center
- Nickel-chrome finish
- 3/8 x 1/32" blade

TM84 Recessed Blade Carburetor Screwdriver.

- 1/4" drive
- Use with TM64 or TM65 and other 1/4" square drive handles
- Blades are recessed in outer socket wall to self center
- Nickel-chrome finish
- 7/16 x 1/32" blade

TM85 Recessed Blade Carburetor Screwdriver.

- 1/4" drive
- Use with TM64 or TM65 and other 1/4" square drive handles
- Blades are recessed in outer socket wall to self center
- Nickel-chrome finish
- 9/32 x 1/32" blade for adjusting late model Quadrajets carburetors

TAM3E Metric Hex Head Driver.

- Use to make carbon monoxide adjustments on 1976 Dasher®, 1974 to 1976 Audi® and Volvo®, and 1975 and 1976 Fiat® and Saab® vehicles
- 3 mm bit size, 1/4" drive
- 6 7/8" long
- Nickel chrome finish

Carburetor Service Tools

ACT1370 Disconnect Set.

- Convenient plastic holder included
- Useful on air conditioning spring couplings as well as push lock connectors on radiator and transmission lines
- Includes 6 tools for disconnecting spring couplings on Ford, GM, and Chrysler air conditioning lines
- Works on fuel lines and can be used as push lock connectors on radiator and transmission lines
- Included sizes are 5/16, 3/8, 1/2, 5/8, 3/4 and 7/8"



ACT1370



WARNING



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

Fuel Systems



FID8838A



YA997



FIH940

Fuel Inlet/Fuel Filter/Fuel Pump Tools

YA997 Swivel Handle Fuel Filter Wrench.

- Designed to access hard to reach fuel filters
- Fits fuel filters 2 1/4 to 2 9/16"

FIH940 Gas Tank Fuel Pump Removal Tool.

- Removes plastic fuel pump retaining rings
- Universal adjustable design fits most plastic retaining rings
- Prevents damage to original pump retaining ring
- Use with 1/2" drive extension and ratchet
- Use to reinstall old retaining ring

Injector Harness Testers

FID8838A Injector Harness Tester Set.

- Plugs into solenoid harness to identify electrical or fuel system malfunctions
- Includes 8 testers and injector harness extension in a storage case

FID8320 Injector Harness Tester.

- Use on M[®] TBI models 100, 200, 220, 300, 400 and 500 used on various cars and trucks

FID8329 Injector Harness Tester.

- Use on Bosch PFI injectors used on various GM, Ford[®] and Chrysler[®] vehicles with PFI

FID8339 Injector Harness Tester.

- Use on GM Multec 1 injectors and the bottom feed injectors used on 2.2 L 4 cyl. J and L cars from 1989 to 1993

FID8340 Injector Harness Tester.

- Use on GM SCPI truck engines 4.3 L V6, 5.0 L V8, and 5.7 L V8 (1996 and later) plus 4.8 L V8, 5.3 L V8, and 6.0 L V8 (1999 and later)

FID9210 Injector Harness Tester.

- Designed for eo[®] TBI systems (1992 and later)

FID8838A1 Injector Harness Tester.

- Use on GM Multec 2 injectors found in 1999 and later 2.4 L 4 cylinder engines in Oldsmobile[®] Intrigue and Cutlass, Chevrolet[®] Cavalier and Malibu and Pontiac[®] Sunfire vehicles

FID8838A2 Injector Harness Tester.

- Use on Bosch 2 injectors used in 2000 and later Cadillac[®] 4.6 L V8 engines and Oldsmobile 4.0 L V8 engines

FID8838A3 Injector Harness Extension.

- Injector harness extension line for all FID series injector harness testers
- Use when injector is in a lower position in manifold or cylinder head

FID8838A4 Plastic Case.

- Storage case for the FID8838A injector harness tester set

Shut offs/Hose Pinching Pliers (Blue-Point[®])



YA965



HCP7A



YA2850A



HCP10A



HCP6A



FPP17

YA965 Hose Pinching Pliers.

- Eliminates need to drain cooling system when repairing thermostat or water pump
- Use to pinch off emission control hoses, flexible brake lines and rubber hose fuel lines
- Jaws swivel for positive clamping

YA2850A Hose Pinchers.

- For diagnosing problems that require rubber or plastic fuel, vacuum and air lines to be temporarily closed
- Effectively seals lines without disconnecting
- Set of 2

HCP6A Hose Pinching Pliers.

- For sealing hose sizes 1/8 to 5/16"
- For use on brake lines, fuel lines and vacuum hoses
- 6" long

HCP7A Hose Pinching Pliers.

- For sealing hose sizes 1/2 to 3/4"
- For use on heater hoses and vacuum lines
- 7" long

HCP10A Hose Pinching Pliers.

- For sealing hose sizes 3/4 to 2 1/4"
- For use on radiator hoses
- 10" long

HCP3KT Hose Pinching Pliers Set.

- HCP6A, HCP7A and HCP10A (6, 7, 10") in storage pouch

FPP17 Hose Pinching Pliers.

- Ideal for truck/tractor applications
- Quickly and easily pinch off difficult to reach vacuum lines, water hoses, etc.
- 17" semi rigid shaft allows prepositioned, 1 hand use
- Heavy duty steel clamp sleeves are heat treated to 48-52 RC to provide strong clamping
- Fine tooth ratchet allows precision clamping and locks into place for ease of use
- Pull bar and thumb lock made of high carbon steel for extended tool life
- 2 1/4" jaw opening for use in a wide range of applications

Fuel Line Disconnect Tools

Fuel Line Coupling Release Tool Sets.

- Designed to service special quick connect couplings found on fuel feed and return lines located at the engine

FIH9055 Fuel Line Coupling Release Tool Set.

- Includes a FIH9055-1 (5/16") and a FIH9055-2 (3/8") tool for GM® fuel lines.

FIH9056 Fuel Line Coupling Release Tool Set.

- Includes FIH9056-1 (1/2") and FIH9056-2 (5/8") for fuel and air conditioning quick connect couplers on most late model Ford® and Mazda® Navajo vehicles.

YA9457 Fuel Line Disconnect Tool Set.

- Designed for reach and access to fuel line couplers
- Use on GM, Cadillac®, Northstar® engines (1993 and later) and Ford E and F Series trucks (1991 and later)
- Includes YA9457-1 (5/16") and YA9457-2 (3/8")

LDTF2 Fuel Line Disconnect Tool.

- Disconnect the fuel line from the fuel filter on 5.3 L Suburban, Tahoe, Yukon, Avalanche plus select Silverado and Sierra vehicles
- Can be used on other Flex Fuel systems

LDT8 Master Disconnect Set.

- For spring lock and quick disconnect couplings used on air conditioning and fuel lines on Ford, GM and Chrysler® vehicles

LDT6 Disconnect Set.

- Disconnects air conditioning, quick connect fuel lines and spring lock couplings on Ford and Chrysler AC lines
- Works on fuel lines and other quick disconnect couplings on U.S. and import vehicles
- Angled to access tight spots
- Durable plastic resists fuels and solvents
- Includes 6 sizes from 1/2 to 7/8"

LDT14 Master Plus Disconnect Set.

- Contains all the tools in the LDT8 master disconnect set
- 3/8 and 1/2" Jiffy-Tite® disconnect tools from the LDTSP4 set
- Blue 5/16" fuel line adaptor from the LDTF2 fuel line disconnect set
- Set of 4 air line push pull disconnect tools that work on heavy duty trucks and industrial applications
- Label inside cover of carrying case shows images and applications



Steel Line Stoppers (Blue-Point®)

SLS8KT Steel Line Stopper Kit.

- Use to seal steel lines once disconnected
- Prevents fluid leaks and contamination during service
- Use with all automotive fluids
- Installs in seconds

SLS-BANJO Banjo Steel Line Stopper.

- Use to seal banjo fittings on steel lines once disconnected

SLS-38 3/8" Steel Line Stopper.

- Use to seal 3/8" steel lines once disconnected

SLS-516 5/16" Steel Line Stopper.

- Use to seal 5/16" steel lines once disconnected

SLS-12 1/2" Steel Line Stopper.

- Use to seal 1/2" steel lines once disconnected



WARNING



- Plastic coated handle does not protect against electrical shock
- Read safety precautions on pages W1 to W2

FUEL AND ENGINE SYSTEMS

Distributor Service Tools



U.S. Distributor Wrenches

Stock No.	Wrench Size, inches
S8564B	1/2
S9707	1/2
M3515	9/16
S8176	9/16
S9609	9/16
S9622	9/16
S9626	9/16

S8564B Distributor Wrench.

- Ford®, Lincoln® and Mercury® engines; clears leads and coils

S9707 Distributor Wrench.

- Ford, Mercury and Cadillac® engines

M3515 Distributor Wrench.

- GM® V6 and V8 trucks

S8176 Distributor Wrench.

- Pontiac® and Oldsmobile® engines

S9609 Distributor Wrench.

- Chevrolet® V8 engines

S9622 Distributor Wrench.

- 1977 and later full size GM cars with V8 engines

S9626 Distributor Wrench.

- GM V6 engines



Ignition Testers

YA2700 Ignition Module Tester.

- For testing Chrysler 4 pin and 5 pin modules; GM 4 pin, 5 pin, and 7 pin modules; plus Ford 3 pin and grommet style modules
- LED indicator gives a simple go or bad reading

ITHE100 Ignition Tester.

- Same as IT100 but for use on HEI systems

IT100 Ignition Tester.

- For standard ignition systems
- Check for spark without removing spark plug from engine
- Testers attach to spark plug lead and spring clip attaches to appropriate ground

Metric Distributor Wrenches

S6134 Metric Distributor Wrench.

- 1982 and later Cadillac 4.1 L V8 engines, GM 2.8 L V6 engines, and 1985 VW® olf engines
- 15 mm



YA6465

Ignition Tools

YA6465 Ignition Modulator Wrench for Ford Vehicles.

- Use to remove 7/32" (5.5 mm) hex retainer bolts on Ford ignition modules
- 1/2" hex drive



ACD12B

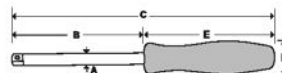
Cleaning Brush

ACD12B Distributor Cleaning Brush (Blue-Point®).

- Wire brush cleans terminal connections on distributors and coils
- 5 1/4" long with a 4" long handle
- Wire diameter is .012"



TM63A



Drivers

Stock No.	A	B	C
TM63A	1/4	4 21/32	9 3/16

TM63A Flexible Driver.

- 1/4" drive
- For low torque applications
- For use on Delco-Remy® window type distributors

Oxygen and Fuel Sensor Tools



GANM27

Fuel Sensor Wrenches

GANM27 Fuel Sensor Wrench.

- Use to remove the high pressure fuel sensor on the 3.6 FSI engine found on the VW Touareg and CC models plus Audi® Q7
- 12 point crowfoot socket engages every 30° for better access in restricted areas
- Special alloy steel provides the highest match of strength and durability
- 3/8" drive, 27 mm

Oxygen and Fuel Sensor Tools



S6176

S6150

S6154

SWR102

SWR4

SWR1

SWR2

YA1239

YA9385

YA9375A

YA6675

Oxygen Sensor

S6176 Oxygen Sensor Socket.

- For service on most Nissan®, Mazda®, Honda® and Acura® vehicles
- Slotted side clears projections
- 22 mm 1/2" drive, 3 7/8" long

S6150 Oxygen Sensor Wrench.

- Special crowfoot wrench design provides strength necessary for removal/installation
- 12 point, 7/8" wrench size, 1/2" drive
- Nickel-chrome finish

S6154 Oxygen Sensor Wrench.

- For use on oxygen sensors on 2007 Acura RDX. 22 mm
- 12 point wrench opening, 1/2" drive
- Nickel-chrome finish

SWR1 Oxygen Sensor Wrench.

- Designed for all oxygen sensors with a 7/8" hex
- Flex head offers essential clearance for removal/installation of oxygen sensors when sensor is positioned upward and inward to the floorboard or when leverage is needed around an exhaust pipe
- Ford® Contours and 4.6 and 5.4 L Ford Modular engines used in trucks and SUVs have this application
- Other applications include 7/8" and 22 mm knock sensors used on mid size trucks, SUVs and vans
- Flank Drive® wrenching system for greater applied torque
- Chrome finish for easy cleanup and protection against corrosion
- Compact, low clearance head
- Overall length: 10 3/4". Hex: 7/8" 6 point. Head diameter: 1 9/16". Slot width: 1 5/16"

SWR2 Oxygen Sensor Socket.

- For oxygen sensors located in the exhaust manifolds of 1981 and later cars and light trucks, including VW®
- 3/8" drive with 7/8" hex size
- 1/2" opening for easy access to oxygen sensor
- Flank Drive wrenching system for greater applied torque with less effort
- Ball detent in square drive for secure retention
- Industrial finish

SWR4 Oxygen Sensor Wrench.

- Use on oxygen sensors with a 22 mm (7/8") hex
- Bent handle design with flex head offers extra clearance for removal and installation of shielded oxygen sensors and air/fuel sensors
- Chrome finish for easy cleanup and protection against corrosion
- Depth of socket and wall diameter of socket is critical for limited space inside heat shield
- Overall length: 10 3/4". Hex: 7/8" 6 point. Head diameter: 1 3/16". Slot width: 1/2"

Applications

- Toyota®: 2003 and later
- Acura®: 2005 and later
- Lexus®, Honda®, Hyundai® and Kia®: 2006 and later
- Nissan®, Mazda®: 2007 and later

SWR102 Oxygen Sensor Wrench Set.

- SWR1 and SWR2 (2 pcs) in storage tray.
- YA1239 Dual Drive Oxygen Sensor Wrench (Blue-Point®).

- 1/2 and 3/8" drive
- Attach 1/2" breaker bar on the end of the tool to initially loosen stuck sensors, use a 3/8" ratchet on the top for fast removal and installation
- Fits oxygen sensor applications with a heat shield
- Slotted body allows clearance for wire harness
- Forged, heat treated steel with 6 point design will withstand high torque removal applications

YA9385 Oxygen Sensor Socket (Blue-Point).

- Use to install and remove oxygen and vacuum sensors on most domestic and import vehicles
- Can be used with impact wrench
- 1 1/4" external hex. 19/32" x 2 3/4" slot to clear obstructions, 22 mm, 1/2" drive
- Black industrial finish

YA9375A Oxygen Sensor Wrench (Blue-Point).

- For oxygen sensors on GM LT1 and LT5 5.7 L V8 engines
- Further applications on 2007 and later Harley-Davidson® motorcycles
- Eliminates need to unhook exhaust system when removing or reinstalling oxygen sensor
- 3/8" drive with 2 1/8" hex size
- Industrial finish

YA6675 Shielded Oxygen Sensor Socket (Blue-Point).

- For use on late model Toyota and Lexus
- Depth and outer diameter are critical for limited space inside heat shield
- 12 point double hex
- Forged for maximum strength

YA6775 Oxygen Sensor Wrench (Blue-Point).

- Designed for use with most oxygen sensors no matter what size electrical connectors they have
- Double sided design, 6 and 12 point configuration
- Pivoting handle design allows positive leverage in confined areas



YA6775



WARNING



- Do not use chrome or industry finish hard tools with impact drivers
- Do not use cheater bars on handles • Read safety precautions on pages W1 to W4

BATTERY SERVICE

Charge. Test. Boost. Invert. Diagnose. Maintain.

When you use Snap-on® battery service equipment it doesn't matter what rolls into your shop because you will be prepared.

When it comes to battery system service, versatility is power, and that's exactly what Snap-on gives you. 6, 12 and 24 Volt.

Battery Charger Plus™ — The bottom line: batteries have changed. Has your charger? Charge almost any battery you can think of at any rate you need. Safely. It's that simple.

The D-TAC™ Elite — A diagnostic charger, battery, starting and charging system tester, engine starter, DMM, and cable voltage drop tester, with flash-reprogram mode and more.

Service tools — From kits to individual tools, Snap-on offers a full range of safe equipment you can count on.

Booster packs — Professional-quality equipment that's perfect for the shop or the field.



EEBC500 Battery Charger Plus.

- Adaptive: Standard automotive, deep cycle, AGM and gel cell batteries each require a different charging cycle
- Versatile: Charges 6, 12 and 24 V batteries with 4, 15 and 60 A charging rates
- Convenient: GFCI outlets for auxiliary power to lights and other accessories: handy storage compartment for optional battery hand tools
- Smart: Fully automatic operation: microprocessor controlled algorithms optimize the charge cycle without overcharging. Includes manual mode for timed charging
- Powerful: 300 A engine starting power
- Hi tech: Exclusive flash reprogramming power supply maintains consistent OEM specified voltage up to 60 A
- Informative: Digital display: voltage, % of charge and alternator % of performance
- Professional: Rugged, streamlined design. Higher working height handle helps relieve stress on lower back
- SS3151 product information DVD



EEBC500



EEBC500CVR

EEBC100 Manual Charger (Blue-Point®)

- Manually set charging time as required
- 200 A 12 V and 100 A 6 V engine start available for emergency starting
- 40 A rapid charge charges in .5 to 1.0 hours
- 10 A fast charge charges in 3 to 5 hours
- Rugged retractable handle provides convenient storage
- UL® listed



EEBC100

Specifications	EEBC500	EEBC500INT	EEBC500SJ	EEBC100
Output Currents ADC	60/15/4	60/15/4	60/15/4	40/10/2
Output Voltages V DC	6/12/24	6/12/24	6/12/24	6/12
Switch Positions	3 switches - 64 Combinations	3 switches - 64 Combinations	3 switches - 64 Combinations	5
Continuous Input Current (Max), Amps	14.6	7	14.1	10
Crank Assist Input Current (Max), Amps	66.5	25	88	30
Input Voltage (Rated), V AC	120	230/240	100	120
Crank Assist Rating, ADC	300	300	300	200
Crank Assist Duty Cycle	1/36	1/36	1/36	1/48
Crank Assist On Time (seconds)	5	5	5	5
Crank Assist Off Time (seconds)	180	180	180	240
Boost Rating, Amps	300	300	300	200
DC Lead Type	Fixed	Fixed	Fixed	Fixed
DC Lead Length	7'6"	7'6"	7'6"	6'
DC Lead Gauge	4 AWG	4 AWG	4 AWG	8 AWG
DC Clamps	500A	500A	500A	300A
AC Cord Length, feet	9	9	9	6
AC Cord Gauge	14-3	14-3	14-3	16-3
Ammeter	None	None	None	0-40
Voltmeter	Digital	Digital	Digital	None
Timer	Digital	Digital	Digital	135 Minute
AC Circuit Breaker	Self Resetting	Self Resetting	Self Resetting	Self Resetting
DC Circuit Breaker	Self Resetting	Self Resetting	Self Resetting	Self Resetting
Rectifier	8 SCR	8 SCR	8 SCR	4 Diodes
Ventilation	Fan Cooled	Fan Cooled	Fan Cooled	Fan Cooled
No. of Charge Rates	3	3	3	3
Wheel Size, inches	10	10	10	6
Weight, lbs	86	90	90	40
Dimension L x W x H, inches	20.4 x 16.5 x 30.5	20.4 x 16.5 x 30.5	20.4 x 16.5 x 30.5	13.8 x 13.5 x 20
Outdoor Use	Yes	No	No	No
Country of Use	North American	Australia, Europe, UK	Japan	North America
Power Supply Cord	Included	EEBC5CABLE-A, E, U	Included	Included



EEBC5CABLE-A



EEBC5CABLE-E



EEBC5CABLE-U

EEBC500CVR Battery Charger PLUS Cover.

- Protective cover for the EEBC500 battery charger PLUS series

EEBC5CABLE-A

- Power supply, Australia. Use only with EEBC500INT

EEBC5CABLE-E

- Power supply, Europe. Use only with EEBC500INT

EEBC5CABLE-U

- Power supply, United Kingdom. Use only with EEBC500INT

EEBC500-15 Lead Set.

- 15' for EEBC500 series

CE

TECHNICAL SUPPORT

1-866-713-6007



WARNING



- Charger must be OFF when connecting or disconnecting leads
- Avoid overcharging batteries
- Read safety precautions on pages W1 to W4



EEBC61210

Bench Chargers

EEBC61210 Bench Top Battery Charger (Blue-Point®).

- Automatic operation plus an intelligent microprocessor controlled charging sequence for use on a wide variety of battery types
- Charge conventional, maintenance free, A M, gel cell, deep cycle and marine batteries
- Simply select the correct battery size: Charger will initiate the automatic charging process

Specifications	EEBC61210
Input	120 V AC, 60 Hz, 4.4 A
Output	6 or 12 V DC, 1 to 10 A
Battery Range (Optimal)	25-200 AH
Charging Cable Length, ft	6
Dimensions, inches	10.75 L x 4.5 W x 7.875 H
Shipping Weight, lbs (kg)	4.94 (2.24)



EEBM500

Battery Maintainers

EEBM500 4A 6/12 Volt Battery Maintainer.

- Fully automatic 6/12 V operation, 4 A charging rate
- Compatible with conventional, maintenance free, A M, gel cel, spiral wound and deep cycle batteries
- LED charging status indication
- Includes quick connect output cord with clamp set, ring terminal set and 12 V adaptor output accessories
- Ergonomic design with large buttons for easy use while wearing gloves
- Reverse polarity and battery fault warnings

EEBM500-1 Clamp Set

EEBM500-2 Ring Kit

EEBM500-3 12 V Plug



EEPI175

Power Inverter

EEPI175 Power Inverter.

- 175 W
- Powers cell phones, computers, Nintendo® DS, DVD players, iPods® and more
- Plugs into vehicle 12 V power outlet, fits in cup holder
- Provides 110 V AC household power inside your vehicle
- Provides 2 USB ports to power to small electronic devices

EEPI2250 Power Inverter.

- 2,250 W of continuous power and 4,500 W peak power to run a wide variety of tools, electronics and appliances
- Stable, clean and reliable power with high surge capacity for use in the most demanding applications
- Precise electronics to enable proper charging of electronics: laptops, cell phones and gaming devices
- (3) 120 V AC outlets
- For tow trucks, fleets, construction vehicles and military use
- Unit must be hard wired into vehicle



EEPI2250

D-TAC™ Battery System Diagnostic Tester/Charger/Engine Starter

EECS306C D-TAC Elite

- D-TAC Elite is a diagnostic charger, battery, starting and charging system tester, engine starter, DMM, cable voltage drop tester with flash reprogram mode and more
- EECS306C D-TAC Elite includes EECS304C MicroVAT™ ELITE Tester, EECS306C-5 Battery Test Cables (10'), EECS306C-6 Post Adaptors and EECS500-1 Printer Paper Roll
- Integrated printer and cart
- Multitasking, once a diagnostic charge session has been started, the MicroVAT Elite (top analyzer) can be removed from the charger and used to diagnose other vehicles while the charger continues to diagnose and charge the original battery
- Conductance and deep scan battery test technology with 150 A load capability (clicking sound heard when load is applied)
- Diagnostic Charge Cycle continuously monitors battery watching trends while maximizing charge acceptance minimizing charge time
 - No wasted time trying to charge defective batteries
 - Temperature (temperature sensor built into unit)
 - Will not damage a battery during the charging process
- Charging System Test uses the most innovative and decisive method, digital signal processing
- Cable Voltage Drop Test determines health of vehicle battery cables (with optional EECS306C-3 Cables)
- Built-in Printer provides test results and custom shop information
- 3.5" large full color 1/4" VTA display, Color icons and test result graphs
- Visual and voice prompts in English, Spanish, French, Italian, Dutch or German help you through the diagnostic process

- Digital Multimeter (with optional EECS306-4 Lead Set)
 - Low Volt Automotive, Amps, Ohms, Diode and Basic Oscilloscope
 - Temperature via built-in infrared sensor or optional probes (EETH501C fluids, EETH502B surface, EETH503B air)
- USB and Infrared (IR) connectivity
 - USB software upgradeable for future enhancements like Hybrid
 - IR & Certificate printing on PC with optional EECS306C-7
- Heavy duty ready for more accuracy and capability add the optional EECS306C-2 Dual Range Amp Clamp and EECS306C-3 Cable Voltage Drop Test Cables
- UL®/CUL® listed
- Patents pending
- SS3241 How to use DVD

TECHNICAL SUPPORT
1-866-592-8052



EECS306-CVR



EECS306C



EECS304C

MicroVAT Battery/Starting/Charging System Tester

EECS304C MicroVAT Elite Tester.

- Complete battery, starting and charging system tester
- Charging system test uses the most innovative and decisive method, digital signal processing
- Test 6 and 12 Volt batteries and 12 or 24 V systems
- Unit is included with D-TAC ELITE above
- CE

D-TAC/MicroVAT Accessories

2-6342-1 High Amp Probe.

- Clamp on inductive high amp probe for old EECS306B Series D-TAC plus battery systems testers and EECS304B1B MicroVAT
- 0 to 1,500 A range for testing high current circuits
- 5" length; 1 A resolution

2-6442-1 Low Amp Probe.

- Clamp on inductive low amp probe for old EECS306B series D-TAC plus battery systems testers and EECS304C MicroVAT
- 0 to 15 A range for testing low current circuits
- 5" length; 10 mA resolution

EECS306C-2 Dual Range Amp Clamp.

- High (0-700 A); Low (0-70 A) (optional)

EECS306C-3 Cable Voltage Drop Test

cables. Cable voltage drop test cables for EECS306C D-TAC Elite and EECS304C MicroVAT Elite. (optional)

EECS306C-4 Digital Multimeter Probe Set.

Digital multimeter probe set for EECS306C D-TAC Elite and EECS304C MicroVAT Elite. (optional)

EECS306C-5 Battery Test Cables. Battery test cables for EECS306C D-TAC Elite and EECS304C MicroVAT Elite. 10' long. (included)

EECS306C-6 Post Adaptors. Included with D-TAC Elite.

EECS306C-7 IR Dongle. IR dongle with installation CD template for EECS306C D-TAC Elite and EECS304C MicroVAT Elite. (optional)

EECS304C-1 Soft Storage Case. Soft sided carrying case for EECS304C MicroVAT Elite. (optional)

EECS500-1 Printer Paper. For EECS304C and EECS306C.

8-00910A Printer Paper. D-TAC plus battery system tester. Old version EECS306B.

5-08826A Printer Paper. MicroVAT battery system diagnostic tester 2-22566. For EECS304B.



EECS306C-2



EECS306C-3



EECS306C-4



EECS304C-1



WARNING



- Charger must be OFF when connecting or disconnecting leads
- Avoid overcharging batteries
- Read safety precautions on pages W1 to W4

BATTERY TESTERS

The battery system testers use conductance technology to quickly provide the technician with the state of health of the battery, the starting system and the charging system. Select from 4 models for a good, better, best line up. One unit has a built in printer and another uses a wireless infrared printer. Some include on screen commands in up to 7 languages. (Wireless tester on next page)

Electronic Battery Testers



Features	EECS500	YA2636	YA2624	YA2612B
CCA Range	100-1,400	100-3,500	390-1,700	100-1,400
Testing Method	Conductance	Conductance	Conductance	Conductance
Displays Battery % Available Capacity	CCA	% and CCA	%	%
Displays Battery Condition	•	•	•	•
Tests Discharged Batteries	•	•	•	•
Displays Battery State of Charge	•	•	•	•
Tests 12 V Batteries	•	•	•	•
Test 6V & 12 V Batteries	•	•	•	•
Tests Flooded/AGM/Gel Cell Batteries	•	•	•	•
Battery Recharge Indicator	•	•	•	•
Reverse Polarity Protection	Protect and detect	•	•	•
Detects and Displays Bad Cell	•	•	•	•
Surface Charge Warning	•	•	Displays volts	Displays volts
Tests 12 V Starter/Charging Systems	Displays volts	•	Displays volts	Displays volts
Tests 12/24/36 V Starter/Charging Systems		•	Displays volts	
Internal Lead Set Diagnostics	•			
Detects Alternator Ripple		•		
Temperature Compensation	•	•		
Loose Lead Detection	•	•		
International Unit Conversion EN, JIS, EIC, DIN	•	•		
Tests Parallel & Series (24 V) Battery Packs		•		
Printer Capable	Infrared Internal Printer	IR Printer		
Store Test Data for Review and Print Out	•	•		
English, Spanish, French Languages	7 Languages	•		
Custom Header with Date and Time	•	•		
Display	2 line 16 character	16 character LCD	4 digit LED	3 digit LED
Cable Length, inches (mm)	36 (914.4)	48 (1,219.2)	48 (1,219.2)	24 (609.6)
Parasitic Drain Function		•	•	
Retention Magnet	•	•	•	
Product Information DVD	SS3152			

CE

YA2636-4 Infrared USB Adaptor.

- Use to store and print YA2636 test results to a PC or laptop
- Custom software on CD included with kit

HHGA-5 Infrared Printer.

- Infrared printer for YA2636 tester

HHGA-18 Replacement Paper Roll.

- 4 pack of replacement rolls for HH A-5 infrared printer

EECS500-1 Replacement Paper Roll.

- Paper rolls for EECS500 printer



YA2636-4

TECHNICAL SUPPORT

1-866-592-8052
For EECS500 Only



HHGA-5

Wireless Battery System Testers

Wireless Battery Tester

- First in the industry - Test battery, starting and charging systems wirelessly
- New found freedom - Techs can now move around the vehicle, rev engine and operate load controls while viewing the hand held units screen
- Versatile - Test lead acid, flooded, A M and el- 6 and 12 V batteries plus 6, 12, 24 and 36 V starter and charging systems including starter draw, alternator output (loaded/unloaded), diode ripple and parasitic drain
- Tester will display battery or battery pack condition as available % capacity, rated capacity (i.e. CCA's), state of charge voltage and good, marginal or replace status
- Wireless Micro LCD features both a Radio and an IR wireless printer output for remote printout of the test results. Test results can be sent to either a Microsoft® PC (sold separately) via USB Adaptor (included) or stand alone IR printer (optional HH A-5 or 2-22566)
- Unit displays in English, Spanish, French, German, Dutch and Italian
- Patented conductance technology
- No conversion tables needed
- Bad cell is detected and displayed
- Custom header with company name, date and time
- Loose lead detection
- Temperature Compensation
- Reverse polarity protection
- Auto shutoff feature
- Tests both series and parallel batteries

EECS400 includes:

- Hand held receiver, battery module with leads, USB adaptor for PC printing, Microsoft PC data template CD, brass post adaptors and carrying case

YA2636-1 Female Brass Post Adaptors Set.

YA2636-2 Male Brass Post Adaptors Set.

EECS400-PB Carrying Case.

SS3228 EECS400 Product DVD.

TECHNICAL SUPPORT
1-800-222-0956



EECS400

Specifications	EECS400
Battery Size Range	100 CCA to 3,500 CCA
DC Voltage: Range/Accuracy	3.0 V to 49.9 V/+/-2%
LCD Display	2 Line / 16 Character
Power Supply	9 V (Internal Battery)
Cable length, inches (mm)	24 (609.6) Battery Module
Wireless Signal	900 MHz (Custom Protocol)
Weight, lbs (kg)	1.5 (.68)
Warranty	2 Years
Wireless Range	Approximately 50 (depending on environment)

Portable Booster Packs

TECHNICAL SUPPORT
1-866-713-6007

- Complete jump pack line up: basic 12 V, 24 V and one for hunting, camping and emergency 110 V AC power



Specifications	EEJP500	EEJP500V24	EEJP500iCAMO	EEJP100*
Battery Size / Volt	22 aH / 12 V	22 aH (2 each) / 12 / 24 V	22 aH / 12 V	18 aH / 12 V
Peak Amps	2,250	4,500	2,250	1,800
Cranking Amps	330	500	330	280
Cold Cranking Amps	275	415	275	225
Built in Charger (Use HD Shop Cord)	•	•	•	•
Charger	3 110 V AC	3 110 V AC	3 110 V AC	3 110 V AC
Automatic	•	•	•	•
12 V Cord Included EEJP500-8	•	•	•	•
Cable Length (Positive and Negative)	60"	60"	48"	48"
Cable Gauge	4 gauge	2 gauge	4 gauge	4 gauge
Charge Indicator	Digital	Digital	Digital	Red/Green/Yellow LED
12 Volt Outlet	•	•	•	•
Weight, lbs	28	44	34	18.5
Reverse Polarity Warning	Audible	Audible	Audible	
On/Off Switch	•	•	•	•
Digital Readout	•	•	•	
Volt Meter for Internal Battery	Digital	Digital	Digital	
Alternator Voltage	•	•	•	
% of Charge Indicator	•	•	•	•
Vent/Cooling Fan	•	•	•	•
Dual 110 V AC Receptacles, 400 W Inverter			•	
USB Port			•	
Flex Light EEJP500LITE			•	

*Blue-Point®



WARNING



- Charger must be OFF when connecting or disconnecting leads
- Avoid overcharging batteries
- Read safety precautions on pages W1 to W4

BATTERY SERVICE TOOLS

Booster Packs/Booster Cables/Clamps



EECS309B

TECHNICAL SUPPORT
1-866-328-2921

Portable Booster Pack

EECS309B Portable Booster Pack.

- 1,700 peak for quick starting power works on deeply discharged batteries
- 2 LED charge level indicator provides charging status at a glance
- 30" 4 gauge clamp leads (included) are detachable, via heavy duty brass sockets for easy field replacement of cables
- 2 insulated posts provide secure separation and storage for the clamps
- 12 V power outlet socket allows recharging, and also provides a 12 V source to power external devices, such as radios, lights; 5' power cord included
- Fast recharge via 120 V 4 A wall charger; includes charging status indicator lights

EECS309B Optional Accessories:

EECS309B-5. Positive Lead and Clamp 60".

EECS309B-6. Negative Lead and Clamp 60".

EECS309B-9. Motorcycle Leads (positive and negative).

EECS660 Portable Booster Pack (Blue-Point®).

- 1,700 peak for starting power in heat or cold
- Long reach 46" 4 gauge cables
- Industrial grade clamps grab and hold on battery terminals
- Quickly plug heavy duty shop extension cord into front of unit for built-in charging
- 12 V DC power for convenience



BC20500



BC25500P



YA169A



EECS660

Cables/Clamps

- Professional quality booster cables with heavy gauge 100% copper stranding
- Clamp bodies are fully insulated and have recessed copper jaws to minimize the chance of sparking if the cables touch
- Heavy duty clamp springs bite securely on top or side battery posts

BC20500 Booster Cable Set.

20' long, 4 ga., 413 strands copper wire

BC15500 Booster Cable Set.

15' long, 4 ga., 329 strands copper wire

YA159A Cable Clamp Set.

1 pair of heavy duty, copper jaw clamps. 500 A clamps, 100% copper live jaw.

YA169A Side Post Battery Terminal Extenders.

Solid copper.

BC25500P Plug In Style Booster Cables.

- Starting cable and connection harness
- Heavy gauge 25' cables plug into bumper mounted socket to reach any stalled vehicle without having to lift the truck's hood
- Polarized socket mounts to service truck bumper and connects to truck battery
- 500 A clamps are fully insulated with vinyl 4 ga., 413 strands of copper wire

Battery Service Tools



2005BSKA



2004BSKA



MT302BR

Service Kits

All components are described and illustrated on the following page

2005BSKA Battery Service Kit. 5 pcs.

Includes:

- 208CCP Angle nose pliers.
- B260A Cable clamp pliers.
- BTC10 Side terminal cleaner.
- BTC7B Terminal cleaner.
- CJ92 Self locking cable clamp.
- CO506 Kit bag.

2004BSKA Battery Service Kit. 4 pcs.

Includes:

- 208CCP Angle nose pliers.
- BTC10 Side terminal cleaner.
- BTC3A Terminal brush.
- YA249 GM battery terminal wrench.
- CO410B Vinyl kit bag.

Remote Starter Solenoid Switch

MT302BR Remote Starter Solenoid Switch.

- 5' leads allow cranking engine from sides or beneath auto while keeping hands away from moving belts and parts
- Housing protects switch from dirt and moisture
- Heavy duty switch reduces arcing; includes safety shield
- 35 A at 12 V; 20 A at 24 V
- Patented Instinct® comfort handle



208CCP



B260A



GA486A



CJ92

Cable Clamp Tools

208CCP Angle Nose Pliers.

- Rounded nose protects battery from damage
- Jaws are offset 30° for better leverage
- 7 3/4" long

B260A Cable Clamp Pliers.

- Spreads and cleans cable clamps
- Prybar on one end
- 7 3/8" long

GA486A Cable Clamp Puller.

- Removes cable clamps without damaging posts
- 4" long

CJ92 Cable Clamp Puller.

- Self locking jaws securely grip terminal and pull without damage to post
- 1 3/4" spread



BTC3A



YA9484



BTC7B



BTC8A



YA249



YA249L

Terminal Tools (Blue-Point®).

BTC3A Terminal Brush.

- Stiff wire bristles thoroughly clean posts and clamps
- 3 3/8" long

BTC7B Terminal Cleaner.

- Cleans posts and cable clamps
- Includes a small, circular wire brush with protective cap to clean side terminals
- Plastic body

BTC8A Terminal Cleaner.

- Cleans posts and cable clamps
- Plastic body
- 3 1/2" long

BTC10 Side Terminal Cleaner.

- Cutters on one side clean battery contacts; brush cleans cable contact
- 4 1/2" long

YA9484 Battery Terminal Crimper.

- Ideal for replacing or repairing battery cable terminal ends
- Design helps prevent overcrimping
- Terminal sizes 6 ga. through 4/0

YA249 Battery Terminal Wrench for GM Battery.

- Ratcheting box wrench design for use on M[®] side terminal batteries
- 5/16" hex, 5 1/2" long

YA249L Side Battery Terminal Wrench (5/16").

- Extra long (9 3/4") for connecting/disconnecting battery side terminals on 1994 and later Ford[®] Aerostar vans and GM vehicles including: 1994 and later Pontiac[®] Grand AM, Grand Prix, "W" body cars, plus Buick[®] Regal, Oldsmobile[®] Cutlass, Chevrolet[®] Lumina and Lumina APV
- 5/16" wrench size



BT101



BB4C



GA207A



BB6



BL1B

Hydrometers (Blue-Point)

BT101 Battery Hydrometer.

- Determines specific gravity from 1.100 to 1.300
- No temperature tables required or difficult float reading to observe
- Design enables both customer and technician a viewing opportunity to see the state of the battery acid

BB4C Hydrometer/Thermometer.

- Measures specific gravity from 1.100 to 1.300 and includes a quick reference, color coded "poor," "fair" or "good" scale plus a temperature correction scale
- 14 3/4" long

Fillers (Blue-Point)

BB6 Filler Bulb.

- 6 oz fluid capacity
- Hard rubber stem features an overflow for dripless filling
- 10 1/2" long

GA207A Automatic Filler.

- Insert spout into fill hole and press down
- Fills without overflow

Carrier (Blue-Point)

BL1B Battery Carrier.

- For top post and side terminal batteries
- Rubber pads securely grip battery widths from 5 to 7"
- Plastic hand grip provides a firm hold



WARNING



- Do not short portable booster pack leads against each other
- Avoid overcharging batteries
- Read safety precautions on pages W1 to W4

AIR CONDITIONING & COOLING

More Business In-House Means More Business. Period.

Snap-on offers the latest technology in air conditioning (A/C) and cooling system products along with complete cooling system coverage. From cooling system pressure testers and radiator cap adapters, to cooling system fillers, Snap-on will help you cool any vehicle on the road.

From A/C equipment that does most of the work automatically, to hand held equipment that delivers quick, accurate results—it doesn't take long to see a return on your investment.

A/C recyclers and leak detectors — Designed and manufactured to meet all current EPA and SAE standards, Snap-on® recyclers prove themselves to your customers. They also reduce refrigerant usage in your shop and protect the ozone while SAE J2791 certified detectors uncover the smallest of leaks.

System coverage — From vacuum pumps and manifold sets to UV leak detection kits and digital thermometers, your A/C needs are covered.

Reducing Call Backs.

The last thing you want to do is the same job twice. When you use Snap-on A/C service equipment, accuracy will be your calling card. With microprocessor-controlled operation and automatic detection mechanisms, you're working with smarter equipment.

Service tools — From sets to individual tools, Snap-on offers a full range of safe equipment you can count on.



Recycling/Recharging Systems (R134a)



EEAC325B

COMPRESSOR 2.80Z ↑
FRONT EVAP 3.80Z
CONDENSER 1.80Z

07 TAHOE ↑
FRONT & REAR A/C
07 TAHOE
COMPONENT OIL CAP
REPLACEMENT:
ACCUMULATOR 2.80Z ↓

KOOL KARE™ PLUS A/C Service Center (R134a)

EEAC325B A/C Service Center.

- Complete auto sequence programmability
- Larger gauges, larger 4 x 20" display and vacuum leak test

EEAC324B/EEAC325B Standard Accessories:

EEAC325A1 Spin on filter dryer.

EEAC325B2 High side service hose.

EEAC325B3 Low side service hose.

EEAC325A4 Oil drain bottle.

EEAC325A5 High side service coupler.

EEAC325A6 Low side service coupler.

EEAC324B/EEAC325B Shared Features:

- Fully automatic air purge and built-in oil injection
- Meets SAE J-2788 standard of 95% refrigerant recovery and ± .5 oz charge accuracy
- 20% increase in refrigerant recovery saves refrigerant
- Increased charge accuracy reduces A/C repair call backs
- Extra long 11 1/4' hoses for heavy duty applications
- Microprocessor controlled operation
- SAE®, UL® and CSA® listed
- Simple, menu driven operation
- Automatic high pressure and tank shutoff
- Automatic purge of air and other noncondensable gases
- Multilingual (English, Spanish, French)

EEAC325B Only Features:

- Vehicle database from 1995-2009 for refrigerant and oil specifications
- Imports charge capacity directly into charge mode
- Programmable vacuum hold time
- Upgradeable software

EEAC325A1 – Spin on filter dryer for EEAC324A/EEAC324B and EEAC325A/EEAC325B A/C Recyclers. Avoid A/C recycler downtime. Keep extra EEAC325A1 filters on hand, since the new SAE J-2788 standard requires filter dryer replacement after 150 lbs of refrigerant used. Filter life prompt occurs when 100 lbs of refrigerant have been filtered. Mandatory filter lockout will occur after 150 lbs of refrigerant have been filtered.



SS444E

Air Conditioning Sales

SS444E A/C Merchandising Banner.

- Durable, weather resistant plastic
- Measures 82 x 34"
- Includes 60" ropes at corners



EEAC324B

ECO™ PLUS A/C Service Center (R134a)

EEAC324B A/C Service Center.

- Great performance at a semi automatic value price
- Intuitive interface uses up/down screen menu options
- Menu display guides technician through service process

Specifications	EEAC324B / EEAC325B
Temperature Range	50 to 120 °F (10 to 49 °C)
Relative Humidity	Up to 80% non condensing
Operating Pressure	450 psi
Storage Temperature Range	-4 to 140 °F (-20 to 60 °C)
Compressor	1/3 HP, 1.1 CFM reciprocating
Vacuum	28" Hg at sea level
Vacuum Pump (EEAC324B)	1/4 HP, 1.5 CFM, reciprocating, 40 microns
Vacuum Pump (EEAC325B)	1/3 HP, 3.0 CFM, reciprocating, 40 microns
Gauge Ranges	High Side: 500 psi (34 BAR) Low Side: 350 psi (24 BAR)
Recovery Amount	23 lbs (10.43 kg)
Recovery Rate	1 lb per minute
Refrigerant Charge Amount	0-22 lbs (9.98 kg)
Onboard Refrigerant Capacity	30 lbs (14 kg)
Charge Oil Bottle	12 oz (360 mL)
Drain Oil Bottle	12 oz (360 mL)
Dimensions	34 D x 46 H x 24" W
UV Oil Dye Injection	Yes
Warranty	2 Year
Vehicle Database (EEAC324B)	No
Vehicle Database (EEAC325B)	Yes

TECHNICAL SUPPORT

1-866-769-2788



EEAC325B2009

EEAC325B2009 Database Update Card.

- Database update for EEAC325B Snap-on® KOOL KARE plus recycler
- Updated vehicle database now includes A/C charge and oil lubricant amounts for many U.S. and import vehicles through 2009
- Helps a technician accurately charge a vehicle with the proper amount of refrigerant by putting information right at their finger tip
- Saves money and potential A/C system problems by preventing overcharging
- SD card contains updated database of vehicle A/C capacities (oil and refrigerant) for U.S. and import vehicles



EEAC325ACV

EEAC325ACV A/C Service Center Cover.

- Protects EEAC324A, EEAC324B, EEAC325A and EEAC325B from dust, moisture and shop environments



WARNING



- Wear safety shield (user and bystander)
- Read safety precautions on pages W1 to W4

AIR CONDITIONING

Recycling/Recharging Accessories

Service Center Accessories

ACTFILTERPL A/C Filter (Blue-Point®).

- Filters and separates A/C sealants, dyes, debris, lubricants and other contaminants
- Damage results from Type I sealants or Type II entering A/C service equipment from a vehicle during servicing
- ACTFILTERPL not required or recommended for J2788 certified EEAC324A/EEAC325A and EEAC324B/EEAC325B recyclers



ACTFILTERPL

ACTFILTER1 Replacement Filter Kit.

- Replacement filter for ACTFILTERPL

Filter Dryers

EEAC325A1 Filter Dryer.

- Use on EEAC324A/EEAC324B and EEAC325A/EEAC325B
- Mandatory filter lock out will occur after filtering 150 lbs of refrigerant

EAK0095C01AB Filter Dryer.

- Use on EEAC307C, EEAC308C and EEAC310A (R12 side)

EAK0095C02AB Filter Dryer.

- Use on EEAC310A (R134a side)

EAK0030C02AB Master Dryer Kit.

- Use on EEAC313A (R134a side)

Master Dryer Kit

EAK0030C01AB Master Dryer Kit.

- Filter/dryer should be changed regularly depending on usage of unit
- Kit includes filter and instructions
- Use on EEAC301B, EEAC304D, EEAC313A (R12 side), EEAC316A, EEAC318A, EEAC319A and EEAC320A



EAK0030C01AB

Oil Change Kits

EAK0029C00AB Compressor Kit.

- Use on EEAC308C, EEAC319A and EEAC320A

EAK0029C01AB Compressor Kit.

- Use on EEAC310A, EEAC313A, EEAC316A, EEAC318A, EEAC324A/EEAC324B AND EEAC325A/EEAC325B
- Includes 2 qts of oil, parts and instructions



EAK0029C01AB

ACT71-0A Vacuum Pump Kit.

- 32 oz bottle



ACT71-0A

Service Equipment (R134a and R12)



ACT795UVA



ACT785B



ACT760B

Refrigerant Gas Leak Detectors

ACT795UVA Heated Sensor Leak Detector.

- Patented 3 LED UV lights 385-415 nm wavelength for optimum air conditioning dye fluorescence
- No UV enhancement eye glasses needed
- Detects all commercially available dyes
- Unique digital alarm with numeric leak size indicator
- Long life, stable sensor
- Automatic and manual* calibration and reset to ambient levels
- 3 adjustable sensitivity levels
- True mechanical pump
- Low battery indicator
- SAE® J2791 (R134a) and SAE J2913* Certified
- Mute feature

ACT785B Heated Sensor Leak Detector.

- Unique digital alarm with numeric leak size indicator
- Long life, stable sensor
- Automatic and manual* calibration and reset to ambient levels
- 3 adjustable sensitivity levels
- True mechanical pump
- Low battery indicator
- SAE J2791 (R134a) and SAE J2913* (HFO-1234yf) Certified, EN14624 Certified
- Mute feature
- arage tough
- Visual LED leak alarm near sensor
- Carrying case included
- Inspection light utilizing bright 6,000 MCD LEDs*

ACT760B Heated Sensor Refrigerant Leak Detector.

- Heated Sensor Technology
- Long life, stable sensor
- Automatic and manual calibration and reset to ambient levels
- 3 adjustable sensitivity levels
- True mechanical pump
- Low battery indicator
- SAE J2791 (R134a) and SAE J2913* (HFO-1234yf) Certified
- Mute feature
- arage tough

* Added Feature

Specifications	ACT795UVA	ACT785B	ACT760B
Sensitivity Range	.05 oz/yr (R134a), .025 oz/yr (R22)	.05 oz/yr (R134a), .03 oz/yr (R22)	.05 oz/yr (R134a), .03 oz/yr (R22)
UV Mode/Wavelength	3 UV LEDs/395-415 nm		
Sensor Life	>300 hours		
Power Supply	4 AA Alkaline batteries		
Battery Life	8 hours continuous		
Warm Up Time	<20 seconds		
Auto & Manual Calibration	Yes		
Probe Length	17 inches		
Weight, lbs (kg)	1.5 (.68)		
Warranty	3 years (2 on sensor)		
Numerical Display	7 segment digital display (1 to 9)		
Alarm Near Sensor	Visual probe LED		
Carrying Case	Included		

CE

Service Equipment (R134a and R12)

Electronic Charging Scale

ACT120A Electronic Refrigerant Scale.

- Use with R12 or R134a refrigerants
- Reads transfer amount during charging or recovery operations
- Reads in pounds or kilograms
- Auto off function after 3 hours



ACT120A

Specifications	ACT120A
Capacity, lbs (kg)	240 (110)
Accuracy	±.16 oz (±0.01 kg) or 0.1% of reading (whichever is greater)
Resolution	0.01 lb (0.01 kg)
Operating temperature	32 °F to 120 °F (0 °C to 49 °C)
Platform	9" (228.6 mm) square
Power Supply	9 V battery (included)
Battery Life	Approx. 40 hrs



ACTUVQUADKT



ACTUVMINI4



ACTUVLED



ACTUVINJKT

Ultraviolet Leak Detector Kits (LED Light) (Blue-Point®)

ACTUVQUADKT UV Leak Detection Kit.

- Includes 4 LED UV light, mini dye injector, A/C dye cartridges, hose with R134a coupler, R12 adaptor, 1 oz of coolant dye, 1 oz of oil/fuel/ATF dye, 10 A/C service labels and UV glasses

ACTUVMINI4 Mini LED UV Flex Light and UV Goggles Kit.

- Bright LED light with 12" flexible probe gets in tight spots
- Comfort grip light handle with conveniently located On/Off button
- Includes flex light and UV safety glasses

ACTUVLED LED UV Light Kit.

- Includes rechargeable ultra bright LED UV cord free swivel light (ACTUVLED8) plus rechargeable battery, battery charger and UV glasses

ACTUVC10 Dye Cartridge.

- 10 application dye cartridge with 10 A/C service labels

ACTUVINJKT A/C Leak Detection Kit (Blue-Point).

- Detects A/C refrigerant leaks quickly and easily
 - Universal A/C dye is SAE® certified and OEM approved
- Includes:

- Universal A/C dye to service up to 40 vehicles ACTUVKITRHT for refills
- Exclusive gun style injector and dye cartridge
- Powerful 1 W Luxeon® light
- Compatible with fluorescent dyes
- UV lasses
- Convenient storage case

ACTUVKITHRT (Blue-Point).

- Consists of (4) 1 oz cartridges

Ultraviolet Leak Detector Kits (High Intensity Light)

ACTUVDYEKIT UV Leak

Detection Kit (Blue-Point).

- Includes high intensity light (ACTUVDYEKIT1), dye injector and cartridge with 25 applications, hose w/R134a coupler (ACTUVDYEKIT2), R12 adaptor (ACTUVDYEKIT4), (25) A/C service labels (ACTUVDYEKIT5), dye cleaner (CLEAN1SM), UV safety glasses (GLASS20BKY) and storage case (ACTUVDYEKIT6).

ACTUVDYEKT1 High Intensity UV Light.

- High intensity 12 V DC/50 W compact light gets in tight spots
- Coiled cord extends to 14' with clips for attachment to battery

ACTUVDYEKT2 Injection Hose.

- Hose with R134a coupler for ACTUVDYEKIT

ACTUVDYEKT3 Replacement Injector Handle.

- Replacement injector handle for dye injector in ACTUVDYEKIT

ACTUVDYEKT4 R12 Adaptor.

- R12 adaptor for ACTUVDYEKIT

ACTUVDYEKT5 A/C Service Labels.

- Pack of 25 A/C service labels for ACTUVDYEKIT

ACTUVC25 Dye Cartridge.

- 25 application dye cartridge with (25) A/C service labels

GLASS20BKY Safety Glasses.

- Black frame with amber lens



ACTUVDYEKIT



ACTUVGUNA

ACTUVKITA

ACTUVGUNA8

Ultraviolet Leak Detector Kits

- Inject dye in low side port on automotive A/C system, circulate and check for leaks with the UV Mini Light
- Detect leaks as slow as 1/4 oz per year
- Use optional dyes to check for leaks in engines, transmissions, hydraulic systems and power steering systems

ACTUVKITA R12/R134a UV Leak Detection Kit

(Blue-Point) Includes:

ACTUVGUN3 Injection gun.

ACTUVGUN5 R134a Injection gun adaptor.

ACTUVGUNA9 R12 System injection gun adaptor.

ACTUVGUNA8 Universal dye cartridge (8 oz).

ACTUVLITE4 UV enhancing glasses.

ACTUVLITEA8 Swivel head UV light (12 V, 50 W).

ACTUVLITEA9 Storage case.

ACTUVGUNA Injection Gun Kit (Blue-Point) Includes:

ACTUVGUN3 Injection gun.

ACTUVGUN5 R134a Injection gun adaptor.

ACTUVGUNA9 R12 System injection gun adaptor.

ACTUVGUNA8 Universal dye cartridge (8 oz).



WARNING



- Wear safety shield (user and bystander)
- Read safety precautions on pages W1 to W4

AIR CONDITIONING

Service Equipment (R134a and R12)

Ultraviolet Leak Detector Dye Cartridges/Accessories

Stock No.	Description
ACTUVGUN3	Injection Gun
ACTUVGUN5	R134a Injection Gun Adaptor
ACTUVLITEA8	12 V, 50 W UV Swivel Head Mini Light
ACTUVGUNP1	PAG Oil Cartridges/46 Viscosity (6, 8 oz)
ACTUVGUNP2	PAG Oil Cartridges/100 Viscosity (6, 8 oz)
ACTUVGUNP3	PAG Oil Cartridges/125 Viscosity for GM Vehicles (6, 8 oz)
ACTUVGUNP4	PAG Oil Cartridges/150 Viscosity (6, 8 oz)
ACTUVGUNE1	Ester Oil Cartridges/100 Viscosity (6, 8 oz)
ACTUVGUN2	Universal A/C Dye Cartridge (4 oz)
ACTUV10PAK	Universal Dye Cartridges (10, 1/4 oz)
YAUVC00L	Coolant Dye Cartridges. (6, 1 oz)
YAUV4N1	Engine/Transmission/Hydraulic/Power Steering Accessory Dye Cartridges (6, 1 oz)
ACTUVKITJR1	A/C Dye Cartridges (6, 1/4 oz)
ACTUVKITJR2	A/C Dye Cartridges (6, 1 oz)

Ultraviolet Flashlights (Blue-Point®)

ECFUVLITE Ultra Compact UV Leak Detection Flashlight Kit.

- High intensity LED bulb with 100,000 hour service life
- Comparable to high intensity 75 W lamps
- Compatible with all standard leak detection dyes
- Inspection range of up to 6
- (3) AAA batteries and fluorescence enhancing glasses are included



ECFUVLITE

ECFUV150 UV Leak Detection Flashlight.

- Very high intensity LED technology
- 15x brighter than regular LED lights
- Power comparable to 150 W lamps
- Inspection range of up to 20
- Compatible with all standard dyes
- Fluorescence enhancing glasses and charger included



ECFUV150

ECFUVDUAL UV Leak Detection Flashlight.

- Pinpoints A/C, oil, fuel, ATF, PS, hydraulics, coolant and auto body leaks
- Use with blue lamp with fluorescent dye, white lamp for general component inspection
- 100,000 hour LEDs never need replacing
- UV inspection range up to 6 (1-8 m)
- Powered by (3) AAA alkaline batteries (included)
- Flashlight, holster and fluorescence enhancing glasses included



ECFUVDUAL

Digital Manifold Gauges (R134a) (Blue-Point)

ACTR5150A Digital Manifold Gauge Set (R134a).

- Displays refrigerant and oil capacities
- Large easy to read LCD screen displays pressure and vacuum readings for R134a
- High quality aluminum block manifold
- Performs system leak check at conclusion of the evacuation process
- Heavy duty hook folds and stores on back
- Rubber boot for added protection
- Includes digital manifold, (3) 72" hoses and (2) manual couplers in a storage case



ACTR5150A

Manifold Test Gauges (R134a)

ACTR5134A Manifold Gauge Set.

- Extra large
- 80 mm gauge face and oversized sight glass for better visibility
- Large, 1/4 turn open/close manifold ball valves
- Manual high and low couplers for quick connections
- 72" red and blue nylon barrier hoses meet EPA®, SAE® and UL® standards
- 96" yellow charging hose



ACTR5134A

ACTR4151A Manifold Gauge (Blue-Point).

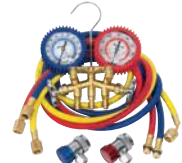
- Manual couplers are spring loaded to eliminate service valve damage
- Extruded aluminum body with solid brass fittings
- High side and low side silicon anti flutter gauges (65 mm) reduce vibration
- Sight glass permits visual monitoring of refrigerant flow
- 96" yellow charging hose plus 72" red and blue hoses



ACTR4151A

ACTR4131A A/C Manifold Set (Blue-Point).

- Anti flutter gauges smooth out needle movement
- Easy grip all metal side mounted knobs
- Piston type free floating valves reduce O-ring wear
- Manual R134a couplers
- 60" red, blue and yellow inner nylon layer hoses meet EPA, SAE, and UL standards
- Yellow hose includes shut off valve



ACTR4131A

ACTR4772-3 High Side Quick Coupler.

ACTR4772-2 Low Side Quick Coupler.

Manifold Test Gauge (R134a/R12)

ACT51234A R12/R134a Manifold Test Gauge.

- 3 sets of hoses (72" red and blue plus 96" yellow) permit true interchange between R12 and R134a refrigerants
- Large, 1/4 turn positive open/close manifold ball valves
- Oversize sight glass for easy flow viewing
- Extra large 80 mm gauge face for better visibility
- Manual high and low couplers for quick connections
- Nylon barrier hoses meet EPA, SAE, and UL standards



ACT51234A

ACTR1234YF Manifold Gauge Set.

- For vehicles using upcoming 1234yf refrigerant
- Red and blue nylon barrier hoses with 12 mm-m fittings on both ends
- R1234yf high and low side couplers



ACTR1234YF

Manifold Service Kit (Blue-Point)

ACT1234PKT Manifold Repair Kit.

- Includes various replacement lens, knobs, O-rings, gaskets and more
- Use to service ACTR4151, ACT9500C, ACTR5134 and ACT51234 manifold gauges



ACT1234PKT



ACTRB72



ACTRY96



ACTB72



ACTB72A



ACTR72A

Replacement Hoses (R134a)

- Low permeation hoses for internal equipment connections
- 1/2" ACME® fittings
- Hoses comply with SAE® J2197

ACTRR72 Red, 6' length

ACTRR96 Red, 8' length

ACTRB72 Blue, 6' length

ACTRB96 Blue, 8' length

ACTRY72 Yellow, 6' length

ACTRY96 Yellow, 8' length

Replacement Hoses (R12)

- 6' hoses include 1/4 turn manual shutoff valves
- Comply with SAE J2196
- 6' and 8' hoses also available with automatic shutoff valves

ACTB72 Blue, 6', 1/4 turn manual shutoff valve

ACTB72A Blue, 6', automatic shutoff valve

ACTR72A Red, 6', automatic shutoff valve

ACTY72 Yellow, 6', 1/4 turn manual shutoff valve

ACTY72A Yellow, 6', automatic shutoff valve



ACT2100



ACTMAN2100

A/C Hose Crimping Tools

ACT2100 Hydraulic A/C Hose Crimper Set (Blue-Point®).

- Recrimp or install most barbed and beaded fittings
- Allows user to create standard or custom length A/C hoses
- Set contains the hand operated hydraulic crimping tool (ACT21001), (4) sets of dies for standard fittings and (4) sets of dies for reduced barrier fittings

ACTMAN2100 Manual A/C Hose Crimper Set (Blue-Point).

- Manual version of the ACT2100 hydraulic hose crimper
- Easily mounts to workbench or held securely in a vise
- Includes a complete set of dies covering standard #6, #8, #10 and #12 hose sizes

• CE

ACT21001 Crimping Tool.

- Hand operated hydraulic A/C hose crimper used to rerimp or install new fittings on A/C hoses

Stock No.	Description	Fitting Size	Hose Size
ACT21003	Standard Die Set	#8	13/32"
ACT21004	Standard Die Set	#10	1/2"
ACT21005	Standard Die Set	#12	5/8"
ACT21006	Reduced Barrier Die Set	#6	5/16"
ACT21007	Reduced Barrier Die Set	#10	1/2"
ACT21008	Reduced Barrier Die Set	#12	5/8"



ACT28B



ACT9103



ACT9106



ACT9005



ACT9006

Vacuum Pumps (R134a/R12) (Blue-Point)

Specifications	ACT28B	ACT9005	ACT9103	ACT9106	ACT9006
No. of Stages		1	1	1	2
Free Air Displacement	Air Operated	1.5 CFM	3 CFM	6 CFM	6 CFM
Ultimate Vacuum	28 inHg	75 Microns	75 Microns	75 Microns	15 Microns
Motor		1/6 HP	1/4 HP	1/4 HP	1/3 HP
Pump Speed		3,450 rpm	1,720 rpm	1,720 rpm	3,440 rpm
Electrical Specs		110 V 60 Hz	110 V 60 Hz	110 V 60 Hz	110/220 V 50/60 Hz
Shipping Weight (lbs)	5	16	17	22	24.6

ACT9005 Vacuum Pump.

- High efficiency, single stage 1.5 CFM pump
- Ultimate vacuum of 100 microns
- 3 inlet port sizes: 1/4, 3/8 SAE and 1/2" ACME
- as ballast valve helps prevent oil contamination
- Easy access oil fill port
- 1/6 HP
- 120 V AC motor
- Weight: 16 lbs, oil capacity: 6 oz

ACT9006 Vacuum Pump.

- High efficiency, 2 stage 6 CFM pump
- Ultimate vacuum is 25 microns
- 3 inlet port sizes: 1/4, 3/8 SAE and 1/2" ACME
- Easy access oil fill port
- 1/3 HP 120 V AC motor
- Weight: 38 lbs, oil capacity: 8 oz



WARNING



- Wear safety shield (user and bystander)
- Read safety precautions on pages W1 to W4

AIR CONDITIONING

Service Equipment (R134a and R12)

Valve Core Tools (R134a/R12)

ACT1297 Master Valve Core Tool Set (R134a/R12).

- Unique design offers locking device to hold shaft in place when removing or installing valve core
- Makes removal and installation of Schrader valve cores possible on fully charged systems

Includes:

- High side R12 adaptor for M[®]/Ford[®] vehicles (1/4" x 3/16")
- High side R12 adaptor for Ford vehicles (1/4" x 1/8")
- R134a high side connector (16 mm)
- R134a low side connector (13 mm)
- 1/4" FL swivel connector
- Box for set component storage
- Large bore valve core remover/installer assembly for GM vehicles
- JRA R134a valve core remover/installer assembly
- Eton R134a low side valve core remover/installer assembly
- Eton R134a high side valve core remover/installer assembly



ACT1297

ACT2105 Orifice Tube Service Kit.

- Install and remove any style orifice tube
- Remove broken screens and tubes
- Includes auger point shaft puller, for GM vehicles, brass extension, puller, remover arbor, remover nut and storage case



ACT2105

Can Tapper Valve

ACT413A Can Tap Valve.

- Fits R134a (2 7/8"), R12 (2 1/2") and Oil (2") U.S. standard charge cans
- Includes 1/2" ACME[®]-M and 1/4" FL-M ports
- Internal safety check valve prevents system backflow
- Composite construction with brass ports
- Includes insert for smaller cans



ACT413A

Oil Injector (R134a)

ACTR82375 Oil Injector.

- Use to add refrigerant oil or large amounts of UV leak detection dyes to A/C systems
- Quickly adapts to manifold gauge sets or charging equipment
- 1/2" ACME male x 13 mm R134a low side female threads
- 2 oz capacity
- R134a use only



ACTR82375

Seal and Clutch Service

ACT1300B A/C Clutch Remover Set.

- Simplifies removal/installation of A/C compressor clutch and clutch plates
- Provides access to shaft seals
- For use with Ford, Chrysler[®] and GM vehicle A/C compressors



ACT1300B



TEMP2A

Thermometers

TEMP2A Digital Thermometer (Blue-Point[®]).

- Use on A/C systems, cooling systems and other applications
- Reads temperature of liquids, solids and gases
- Easy to read display in F and C
- Magnet: cover holds unit in place
- Tip cover protects probe during storage

TEMP3A Digital Thermometer (Blue-Point[®]).

- View center vent air temperature from under hood by placing external sensor in center vent
- Compare outside temperature with A/C discharge temperature
- Built-in internal sensor
- External sensor with 10' extension wire
- MIN/MAX memory for both sensors
- Uses standard AAA battery (included)
- Large, backlit display with clock feature



TEMP3A

Specifications	TEMP2A	TEMP3A
Temperature Range	-58 to 300 °F (-50 to 150 °C)	-58 to 158 °F (-50 to 70 °C)
Resolution	± 0.1°F (± 0.1°C)	± 0.1°F (± 0.1°C)
Accuracy	± 2.0 °F (± 1.0 °C)	± 1.8 °F (± 1.0 °C)
Response Time	Updates every 1.5 seconds	Updates every 1.5 seconds
Battery	MTACDC1-1	AAA
Battery Saver	35 minute auto power off	
Probe Length	3 1/2" (89 mm)	
Overall Length	7" (178 mm) with case	

€

TEMP10 Pocket Digital Thermometer (Blue-Point[®]).

- Measures liquid, air and surface temperatures via sturdy stainless steel probe
- Digital display for easy viewing
- Angled viewing head can be rotated 180°
- Convertible from Fahrenheit (F) to Centigrade (C)
- Temperature ranges: -58 F to 300 F (-50 C to 150 C)
- Plastic carrying sheath



TEMP10

ACT73A Dual Scale Dial Type Thermometer (Blue-Point[®]).

- Range 0 F to 220 F in 2 increments
- Checks temperature of condenser, outside air and cooling power
- 1 3/4" diameter



ACT73A

ACT83A Dial Type Thermometer (Blue-Point[®]).

- Range 0 F to 220 F in 2 increments
- Immerse stem about 2" in liquids, 4" in gases
- 1" diameter



ACT83A

ACT2030 A/C Temperature Tester (Blue-Point[®]).

- Quickly and easily determine A/C system performance
- Microprocessor compares temperature at the A/C vent and outside ambient temperature
- Automatic shutoff
- Includes diagnostic chart and tech tips
- Powered by 9 V battery (included)
- Range 32 to 120 F



ACT2030

AC Service Tools



Adaptors/Valves/Connectors

ACT106B Expansion Tube Remover.

- For most GM® vehicle models
- 4" long

ACT1009A Orifice Tube Remover.

- Use as CCOT and FFOT screen extractor
- Use in conjunction with ACT106B

ACT1008A Orifice Tube Tool.

- Services A/C systems
- 6 1/4" long

ACT119 Quick Connect Set.

- Simplifies connecting to core valve service fittings
- Includes straight coupler and a 90° coupler that accept either of 2 adaptors

Service Tools

ACT1046C Flush Kit.

- Pressure flush condensers, evaporators and refrigerant lines after A/C system is completely discharged
- Designed to work with any lightweight flushing material that can be mixed with pressurized air
- Includes flush gun, hose, canister and canister adaptor

ACT111B Compressor Oil Injector Adaptor.

- Aluminum body holds up to 2 oz of oil
- Uses pressure differential of the high and low side of A/C system

ACT118B Spring Lock Coupler Set (Blue-Point®).

- 4 pc set aids in disconnecting refrigerant line couplings on many 1981 and later Ford® vehicle A/C systems
- Color coded: red, 3/8"; blue, 1/2"; black, 5/8"; and beige, 3/4"

TR109 Valve Core Tool.

- Use to remove or replace valve cores on A/C systems (large bore)
- 6 3/4" long

ACT1290A Universal Valve Core Service Tool.

- Removes and replaces standard size Schrader style valve cores plus the larger size found in GM vehicle systems

ACT81290 Universal Valve Core Service Tool.

- Use on R12/R134a standard valve cores and JRA/EATON large bore R134a valve cores

ACT499A Spanner Wrench.

- Adjustable 3 stud design for R-4 compressors in GM vehicles
- Applications on some GM, Warner®, Pitts® and Ogura® vehicle clutches

R404 Refrigeration Ratcheting Box Wrench.

- 4 popular square sizes: 3/16, 1/4, 5/16 and 3/8"
- Quick ratcheting action with reverse levers at both ends

RF818SC Refrigerant Ratcheting Box Wrench.

- 9/16" 6 point for servicing compressor valve caps on 1 end
- 1/4" female square on other end for vehicles without Schrader valves

TLE80A 1/4" Drive Torx® 6 Point Socket.

- Service size E8 Torx fasteners on many compressors

TLE60A 1/4" Drive Torx 6 Point Socket.

- Service size E6 Torx fasteners on 1977 and later Eaton® and York® compressors

ACT407 Fin Straightener and Cleaner.

- Multihead tool handles 8, 9, 10, 12, 14 and 15 fins per inch
- 4 1/4" long

EECT4H Circuit Tester.

- Used to detect power and ground, also to find shorts and breaks
- Patented Instinct® Handle for style and comfort
- Molded internal contact links with the LED assembly top dimple for low loss signal transfer
- Smart LED design has more brilliant light output and longer life than traditional bulb
- Finger turn screw on strain relief is easy on/off, has flexible wire protection at the critical bending point and is O-ring sealed
- Low power consumption smart circuit design
- Copper clip is a superior quality component for maximum electrical signal transfer
- Superior flex wire glides past components and remains flexible even in cold conditions
- Rubber Boot material stays flexible
- Technical Support: 1-888-382-6522

CE

GOGGLE1 Protective Goggles.

- Durable molded frame with flexible elastomer seals comfortably for a custom fit around nose, cheeks and forehead
- Quick adjust headband clips permit fast and easy fitting
- Indirect ventilation system channels and directs airflow over the lens
- Uvex® 4C+™ lens coating protects against fogging, scratches and ultraviolet rays
- ANSI® Z87.1-1989

ACT1370 Disconnect Set (Blue-Point).

- Includes (6) tools for disconnecting spring couplings on fuel lines
- Convenient plastic holder
- Useful on A/C spring couplings as well as push lock connectors on radiator and transmission lines
- Includes 6 tools for disconnecting spring couplings on Ford, GM and Chrysler® vehicle A/C lines
- Works on fuel lines and can be used as push lock connectors on radiator and transmission lines
- Included sizes are 5/16, 3/8, 1/2, 5/8, 3/4 and 7/8"



WARNING



• Read safety precautions on pages W1 to W4

AIR CONDITIONING

Radiator Tools



SVTSRAD262A



SVTSRAD262U



RADKITPLUSA



RADKITPLUSJR



YA4505

Vacuum Cooling System Filler

SVTSRAD262A Vacuum Cooling System Filler.

- Eliminates cooling system air locks that cause overheating
- Ideal for vehicle specific shops or municipal garages
- Expands the versatility of SVTS262C cooling system tester
- Adaptors available separately for virtually all import and domestic vehicles
- Liquid filled gauge provides an accurate reading
- Includes main body assembly, Venturi® and hose assembly, suction hose assembly, instruction manual with complete adaptor list

SVTSRAD262U Universal Cooling System Filler.

- Universal version does not require cooling system adaptors
- Includes 2 universal style cones to cover most applications

RADKITPLUSA Cooling System Vacuum/Filler.

- Easily eliminate cooling system air locks that can cause overheating
- Vacuum test checks for system leaks prior to filling
- Gauge protector helps prevent damage to gauge housing
- Push button vacuum valve for easy operation
- Fills system quickly by siphoning directly from the mix container
- Requires 90 psi (4.2CFM) air supply
- Includes Venturi assembly gauge and gauge protector, refill hose assembly, adaptors for most applications, universal fit cone adaptor, hose assembly and instruction manual with complete adaptor list in storage case

RADKIT5 Radiator Neck Adaptor Kit.

- Radiator neck fitting adaptor kit for RADKITPLUSA
- Includes 4 adaptors in sizes .54, 1.36, 1.57 and 1.86"

RADKITPLUSJR Vacuum Cooling System Refiller.

- Reduces system filling time, eliminates airlocks and checks for system leaks
- Compact size allows access in restricted underhood areas
- Cone adaptor ensures unit will work on most U.S. and import passenger vehicles and light trucks
- Push button control valve eliminates the need to interchange hoses
- Shop air (90 psi) quickly draws a powerful vacuum
- Eliminates system bleeding and purging

YA4505 Universal Radiator Adaptor (Blue-Point®).

- 95% application coverage on cars and light trucks
- Replaces as many as 25 other costly radiator adaptors
- Compatible with radiator necks or reservoir tanks
- Can be used with RADKITPLUSA or RADPLUSA cooling system fillers, YA4000B vacuum and pressure pump and SVTS262A, SVTS262B and SVTS262C cooling system testers



YA2090



YA9190



2009FPI



YA7747



CG25



LDTSP4

Radiator and Freeze Plug Tools

YA2090 Radiator Cap Wrench (Blue-Point).

- rips and removes radiator caps with or without wings
- 7 1/2" in length

YA9190 Universal Radiator Drain Plug Socket (Blue-Point).

- Double slotted end of this 3/8" drive socket will fit most radiator drain plugs that have thumb wings
- Will fit Acura®, Honda®, Toyota®, Lexus® and other import vehicles

2009FPI Freeze Plug Installer Kit.

- 18 1/2" long installing tool with ball type swivel for easy positioning
- 7 installer heads in 20, 25, 30, 35, 40, 45, and 50 mm sizes

YA7747 Pneumatic Adaptor (Blue-Point).

- Speeds freeze plug installation
- Use with 2009FPI Installer Kit
- 401" Parker style shank enables use with air hammers

CG25 Freeze Plug Puller.

- Freeze plugs up to 2" in diameter
- 1/4" thick yoke receives 2 7/8" long self tap screw
- Drill 17/64" hole first

LDTSP4 Quick Disconnect Fittings Set.

- Includes sizes 3/8, 1/2, 5/8"-30% and 5/8"-39%
- Applications: 1996 and newer M® vehicles, many 2004 and newer Daimler Chrysler® vehicles, some 2005 and newer Mercedes® vehicles, V-Rod®, Freightliner®, Peterbilt®, Volvo® and White®. Handy spring-action keeps the tool on the line for ease of use. Teeth fit perfectly into tight tolerance of Jiffy-tite® connectors. When rotated, allows the line to be pulled without damage to the connector or retaining clip. Fits the most popular Jiffy-tite fittings found on oil cooler lines used on transmissions and radiators and on other applications



AF102

Antifreeze and Coolant Testers

AF102 Antifreeze Hydrometer (Blue-Point®).

- Degree of protection indicated by direct reading; no temperature compensating scales required
- Range of -60 F to 32 F
- Range of -51 C to 0 C
- Tests hot and cold solutions

EETA305B Refractometer (Blue-Point).

- Quickly and accurately determines the freezing point of propylene and ethylene glycol-based antifreeze
- Gives indication of the charge level in battery acid
- Focusing eyepiece provides an easy to read scale
- Includes steel and glass constructed head and prism, rubber finger grip and focusing eyepiece with eyecup
- Specification range: -50 F to 32 F propylene glycol, with 10 divisions; -60 F to 32 F ethylene glycol, with 10 division



EETA305B



YAUVCOOL



GDCT16

Leak Testers

YAUVCOOL Leak Detector Fluid (Blue-Point).

- (6) 1 oz bottles of dye for coolant systems for use with ACTUVLITEA

GDCT16 Combustion Leak Tester.

- Easy and quick way to diagnose engine overheating problems
- Check for leaks between the combustion chamber and the cooling system
- Test head and gasket for combustion leaks before removing radiator
- For use on water cooled gas and diesel engines
- Kit includes complete test chamber, 16 oz bottle of testing fluid and instructions

GDCT161 Leak Detector Fluid.

- 16 oz bottle of leak testing fluid for the GDCT16 combustion leak tester



SVTS262C

Cooling System Testers

SVTS262C Cooling System Tester.

- Test pressure caps and cooling systems for leaks on a wide variety of domestic and import vehicles
- Cap has rotating lever for fine pressure adjustment
- Set features hand pump and tester head with 12" hose that reads in both psi and kPa
- Improved material in pump head is corrosion resistant
- Includes SVT262-28A, TA36 MA and TA38C radiator adaptors plus storage case
- Reference SVT262C instruction sheet for complete listing of applications



SVTS263A

SVTS263A Cooling System Pressure Tester, Air Powered.

- Air powered upgrade to the highly successful SVTS262C Hand Pump cooling system tester
- Uses pressure regulated shop air to pressure test cooling systems for leaks
- Sensitive pressure regulation allows safe testing of small systems
- Sufficient capacity to fill large systems in seconds
- Composed of rugged, tested components for maximum durability
- Stainless steel and chrome plated components ensure a lasting finish
- Compatible with most commonly used cooling system adaptors
- Pressure gauge has internal shock absorber protection and rubber boot for durability
- Safety spring release cap assembly limits pressure to no more than 32 psi
- Convenient swivel hook allows unit to be hung from under vehicle hood
- Includes 3 of the most common cooling system adaptors: TAB10036, SVT262-28A, and TA38C



WARNING



• Read safety precautions on pages W1 to W4

AIR CONDITIONING

Cooling System Tester Accessories



Cooling System Tester Accessories

Radiator adaptors and cap adaptors listed below can be used with the SVTS262 Series and SVTS263 Series cooling system testers. See SVTS262C cooling system tester instruction manual for complete listing of specific model year applications.

Radiator Adaptor	Cap Adaptor	Vehicle Applications
SVT262-28A	SVT262-29	Acura, Chevrolet, Chrysler/Dodge/Eagle/Plymouth, Ford/Lincoln/Mercury, Geo, Honda, Hyundai, Infiniti, Isuzu, Lexus, Mazda, Mitsubishi, Nissan, Subaru, Suzuki and Toyota
TA16B	TA23A	Pre 2000 Audi, Porsche, 911, Cayman Boxster, Smart Car, Pre 1990 VW
TA18B	TA26A	Volvo, Saab, Jeep, Sterling and Renault
TA27		Volvo large trucks with 63 mm x 3 mm threaded filler neck
TA31A	TA30A	1990s VW
TA32A	TA33A	GM, Ford, Land Rover, Infiniti, Nissan, Freightliner, Kenworth, International and Peterbilt
TA34A	TA246A	GM, Ford, Jaguar, Range Rover, Saab and Suzuki
TA36GM	TA37	GM (most models, 1994-current), Freightliner, Isuzu and Mazda
TA38C	TA39A	Acura, Chevrolet, Chrysler, Geo, Honda, Isuzu, Lexus, Mazda, Mitsubishi, Suzuki and Toyota. Use with TA39A cap adaptor
TA41	TA40	Audi, Bentley, Lamborghini, VW, Porsche: Cayenne and Panamera
TA44	TA45	Mercedes
TA46	TA47	Ford, Jaguar and Mazda. Use with TA47 cap adaptor
TA48	TA49	Toyota
TA50		Volvo large trucks with 48 mm x 3 mm male thread on filter neck

Radiator Adaptor	Cap Adaptor	Vehicle Applications
TA52	TA53	Mazda 3 (2004-current), Most Volvos (2004-current), Ford Fiesta (2012), Land Rover LK2 (2008)
TA54		Freightliner trucks with 60 mm x 3 mm male thread on filter neck
TA56	TA57	Cobalt SS (2005 and later) and Saturn Ion Redline (2004 and later) with Supercharger cooling systems
TA58	TA59	Dodge (2007-2012), Mercedes Sprinter Van
TA445	TA446	BMW 3-series (2006 and later) and 5 and 6-series (2005 and later), All BMWs by 2009
TA4503		1980s GM X and J body cars
TA245A	TA246A	BMW and Mercury. Use with TA246A cap adaptor
TA345A	TA346A	BMW (most 1990-2005) and Range Rover
TA450A	Truck Adaptor Set	For trucks with "B" size (2 11/16" OD) filler neck adaptors. Includes A450-1A rubber plug.
TA4505	TA4504	For trucks with "B" size (2 11/16" OD) filler neck adaptors
A450-1A	Rubber Plug	Use with TA450A truck adaptor kit or as a replacement plug for A4503A GM adaptor kit
A450-2A	Rubber Gasket	Use with TA450A truck adaptor kit or as a replacement gasket for A4503A GM adaptor kit
A4503A	GM Adaptor Set	Tests system pressure on closed cooling systems on GM 2.5 L "X" body cars and 1.8 L "J" body cars

Cooling System Tester Accessories



TAB10022



TAB10025



TAB10031



TAB10034



TAB10036



TAB10041



TAB10044



TAB10046

Cooling System Adaptor Sets (Blue-Point®)

Radiator Adaptor	Vehicle Applications
TAB10022	Pre 1990, VW, Audi and Porsche: Boxster, Cayman, 911
TAB10025	Volvo, Saab and Jeep
TAB10031	VW 1990-1998
TAB10034	Ford, Jaguar, Saab and Saturn
TAB10036	GM, Ford, Jaguar, Mazda and Nissan
TAB10041	VW, Audi and Porsche
TAB10044	Mercedes-Benz and Chrysler
TAB10046	Ford, Jaguar and Mazda
TAB10048	Some Lexus, Scion, Toyota (especially Hybrids)
TAB10052	Mazda 3, most Volvos, Range Rover and 2012 Ford Fiesta
TAB10056	Chevrolet Cobalt and Saturn Ion
TAB10245	Pre-1988 BMW and Merkur
TAB10345	Most BMW (1998-2006) and Range Rover
TAB10445	BMW 2005 and later



TAB10048



TAB10052



TAB10056



TAB10245



TAB10345



TAB10445



SVTA17000

Cooling System Adaptor Set

SVTA17000 Cooling System Adaptor Set.

- Supplemental adaptor set to the SVTS262C cooling system tester kit
- (17) high quality metal construction adaptors cover vehicles through 2006
- Includes SVT262-28A, TA16B, TA18B, TA31A, TA34A, TA36 M, TA38C, TA41, TA44, TA46, TA48, TA52, TA56, TA245A, TA435, TA445 and TA4503 adaptors
- Storage case (PBSVTA1417) has extra storage compartments for the pump and gauge assembly from the SVTS262C kit

PBSVTA1417 Storage Case.

- Storage case for SVTAB1400 and SVTA17000 sets
- Removable cover for display

Truck Cooling System Adaptor Sets

SVTA6100 Large Truck Cooling System Adaptor Set.

- Designed for use with the SVTS262C but compatible with virtually any cooling system tester
- Ideal for servicing large trucks (Volvo®, Kenworth®, Freightliner® and more)
- Pressure test the 8 different filler necks found on modern large trucks when combined with the pump and TAB10036 adaptor from the SVTS262B, SVTS262C or SVTS263A sets
- Can also be combined with the SVTS263A air powered cooling system pressure tester to provide virtually 100% truck coverage
- Includes TA27, TA50, TA54, TA32A, TA4505 and TA58 adaptors plus instruction manual in PBSVTA600 storage case



SVTAB1400

SVTAB1400 Cooling System Adaptor Set (Blue-Point).

- TAB series adaptors feature a composite metal/plastic construction for a lower cost option
- Includes (14) radiator composite metal/plastic radiator adaptors
- Storage case has extra storage compartments to accommodate the pump and gauge assembly and original 3 adaptors from the SVTS262C set
- Includes all TAB series adaptors (except TAB10036) plus TA4503 adaptor
- See instruction manual for a complete listing of all applications



SVTA6100



WARNING



• Read safety precautions on pages W1 to W4

Testers/Service Tools



SVT275

Cooling System Testers (Bladder Sealing System) (Blue-Point®) SVT275 Cooling System Tester.

- Inflatable bladder sealing system enables use with most passenger and light commercial vehicles
- Tests header tanks and radiator systems as well as thread type and bayonet style caps
- Locate leaks from head gaskets, radiator and heater cores, Welch plugs and housings, water pumps and hoses
- Test cap relief pressure and seal condition
- Suitable for marine applications
- Fluid drain tube allows coolant to be returned to reservoir or safely collected for recycling
- Cycle tested to over 1,500 inflations
- Set includes SVT2751 thru SVT27514 (14 pcs) plus air supply hose and instruction manual in storage case

Stock No.	Description	Application
SVT27515	Pressure Pump	
SVT2752	Gauge, 0 to 30 psi (0 to 207 kPa)	
SVT2753	Spare Bladder	
SVT27516	Valve Seal Kit	
SVT27517	Head Assembly	
SVT2756	Neck Extension (Blue)	VW header tanks
SVT2757	Neck Extension (Red)	Japanese micro vehicles
SVT2758	Neck Extension (Black)	Audi/VW header tanks
SVT2759	Cap Adaptor (Blue)	Standard bayonet, Ford header tank, GM N-body
SVT27510	Cap Adaptor (Yellow)	Jeep, Saab, Audi/VW external thread header tanks
SVT27511	Cap Adaptor (Green)	Small Japanese deep, Audi/VW internal thread header tanks
SVT27512	Cap Adaptor (Red)	Small Japanese shallow, late model Audi/VW external thread header tanks
SVT27513	Cap Adaptor (Orange)	Late model BMW, Land Rover and Range Rover
SVT27514	Cap Adaptor (Gray)	Late model Mercedes with thread type



YA9344

Hose Cutters and Removers (Blue-Point)

YA9344 Heater Hose Disconnect Tool.

- Removes heater hoses with 3/4 or 5/8" quick disconnect couplings from rear heater core on 1987 and later Dodge® Caravan and Plymouth® Voyager vans
- Gets into difficult access area next to firewall on 1986 and later Ford Aerostar vans plus 1990 and later Ford Econoline vans



YA1000A



PWC60

YA1000A Multi Cutter.

- Ideal for cutting heater hoses, fuel line hoses, copper wiring, PVC pipes, wiper hoses and air brake hoses, plus any resilient or semi resilient material with a 0 to 1 1/8" diameter
- Comfort contoured handles with plastic grips
- Wire loop for safe storage: 9 5/8" long

PWC60 Compound Leverage Hose Cutter.

- 8 1/2" compound action multiplies normal hand pressure to easily slice through rubber and plastic hose up to 1 1/8" in diameter
- Includes stainless steel cutter blades and internal components



HCR1

HCR1 Heater Hose Coupler Removal Tool.

- Removes broken heater hose couplers on GM vehicles
- Can be used with an impact wrench

Fan Clutch Wrenches/Pulley Holders (Blue-Point)

YA9325 Ford Fan Clutch Wrench Set.

- 36 and 58 mm set
- Includes YA9325-1 and YA9325-2

Applications: E-Series trucks 4.9 L (1984-1991), F-Series trucks 4.9 L (1984-1992), Bronco II and Ranger 2.8 L (1984-1985), Ranger 2.9 L (1986-1992), Aerostar 3.0 L (1986-1988), Aerostar and Ranger 4.0 L OHV (1990 and later), Explorer 4.0 L OHV (1991 and later), Mazda® Navajo 4.0 L OHV (1991-1994), Mazda B4000 4.0 L OHV (1995 and later), Explorer 4.0 L V6 SOHC (1997 and later) and Mountaineer 4.0 L V6 SOHC (1998 and later)

YA9325-1 Metric Flat Wrench. 36 mm wrench size, 343 mm long

YA9325-2 Crowfoot Wrench. 58 mm wrench size, 58.7 mm long

YA9521 Flat Wrench. 36/48 mm wrench size, 356 mm long.



YA9325-1

YA9325-2



YA9521



YA9526



YA9980



YA6120



YA6160



YA6210

Fan Clutch Wrenches/Pulley Holders (Blue-Point®)

YA9526 Fan Clutch Wrench for Ford® Vehicles.

- 40 mm open end wrench
- Use with YA9325-2 or YA9522
- Applications include 4.9 L Econoline vans (1992-1996) and 4.9 L F-Series pickups (1993-1996)

YA9980 Water Pump Fan Clutch Pulley Holder.

- Use on vehicles with pressed on pulleys
- Use on GM® (6.0 L V8 1999 and later) and Chrysler® (3.9 L V6, 4.7 L V8, 5.2 L V8, 5.9 L V8, 8.0 L V10 1998 and later)
- Cannot be used on *Chrysler* 4.7 L V8 using factory replacement water pumps

YA6120 Fan Clutch Wrench Set. Ford/Lincoln®/Mercury®

Applications: E-Series trucks 4.9 L (1984-1991), F-Series trucks 4.9 L (1984-1992), Bronco II and Ranger 2.8 L (1984-1985), Ranger 2.9 L (1986-1992), Aerostar 3.0 L (1986-1988), Aerostar and Ranger 4.0 L OHV (1990 and later), Explorer 4.0 L OHV (1991 and later), Mazda® Navajo 4.0 L OHV (1991-1994), Mazda B4000 4.0 L OHV (1995 and later), Explorer 4.0 L V6 SOHC (1997 and later) and Mountaineer 4.0 L V6 SOHC (1998 and later).

GM Applications: Astro and Safari vans 4.3 L, Blazer, Jimmy and Bravada SUV 4.3 L, S10, Sonoma and Isuzu® Hombre pickups with 2.2 L 4 cylinder and 4.3 L V6, C1500, C2500, C3500, K1500, C1500/C2500/C3500/K1500 Sierra pickups, G1500/G2500 Chevrolet® Express, G1500/G2500 Savana vans 4.3 L V6, 5.0 L V8 and 5.7 L V8; and Suburban, Tahoe, Yukon, Escalade, Denali and Envoy 5.7 L V8.

YA6160 Universal Fan Clutch Pulley Holder.

- Removes and replaces the fan clutch on vehicles using "bolt on" water pump pulleys
- Reverse pulley holder for assembly operations
- Use with YA9521 36/48 mm wrench or YA9526 40 mm wrench for many *Chrysler*, *Ford*, *Lincoln*, *Mercury* and *GM* applications

YA6210 Fan Clutch Wrench for BMW®/Audi®/VW® Vehicles.

- 32 mm fan clutch wrench is used with YA6160 fan clutch pulley holding tool to service *Audi* vehicles (1996 and later), *VW* Passat 3.0 L V6 (1998 and later) plus *BMW* 3, 5, 6, 7, 8, X and Z series vehicles
- YA6160 works on all models listed except 4.0 L and 4.4 L V8 engines
- Made from heat treated steel
- Overall length of 17" (431.8 mm)



FCT706

Fan Clutch Wrenches

FCT706 Fan Clutch Wrench.

- Fan clutch wrench for heavy duty truck engines
- Hole pattern on tool aligns with fasteners on fan hub
- Use with open end wrench to remove fan clutch
- 24 1/2" length for maximum leverage
- Applications: International® (VT365, T444E, DT466, DT350 and HT530), *Ford* Power Stroke (7.6 and 6.0 L), *Detroit Diesel*® (Series 40) and *John Deere*®



YA6180

YA6180 Fan Clutch Wrench (Blue-Point).

- Use on *GM* and *Ford* diesel and gas engines with a 48 mm fan clutch nut
- Provides extra leverage needed to remove the fan clutch nut
- Overall length of 20 1/8" (511.2 mm)
- Head width of 4 1/8" (104.8 mm)
- Head thickness of 3/8" (9.5 mm)



HCP48CF



HCP9



HCP10



HCP20

Heater Hose Clamp Pliers

HCP48CF Mobebe Heater Hose Clamp Pliers.

- 3 position joint gives wider jaw spread
- For 3/4 to 2" diameter clamps
- Radial jaw serrations allows user to grip and adjust hose

HCP9 Corbin Heater Hose Clamp Pliers (Blue-Point).

- 9" length
- Removes or replaces all spring wire hose clamps
- Deep slotted jaws swivel 180° and lock in 3 different positions

HCP10 Mobebe Heater Hose Clamp Pliers (Blue-Point).

- 9" length
- Same as HCP9, except for new style hose clamps found on *GM*, *Ford*, *VW*, *BMW*, *Toyota*, *Volvo* and *Audi* cars

HCP10RK Service Kit (Blue-Point).

- Includes 1 pair of replacement tips plus a replacement spring for HCP10

HCP20 Mobebe Heater Hose Clamp Pliers (Blue-Point).

- For heater and radiator hoses found on 1988-1990 *GM*, *Ford*, *Chrysler* and most imports
- Jaws pivot to almost any angle



WARNING



- Plastic coated handle does not protect from electric shock
- Read safety precautions on pages W1 to W4

AIR CONDITIONING

Service Tools



YA497A



PHP1



PHP3



SHCP1

Heater Hose Clamp Pliers (Blue-Point®)

YA497A Hose Removal Pliers.

- Simplify removal of 5/32 to 1/2" vacuum and fuel hoses
- 8" in overall length

PHP1 Hose Clamp Pliers.

- Clamp off hoses up to 1 1/4" in diameter
- Swivel jaws for parallel clamping action
- 9 1/4" in overall length

PHP2 Hose Clamp Pliers.

- Clamp off hoses up from 1 1/4 to 2 3/4" in diameter
- Swivel jaws for parallel clamping action
- 4 3/8" jaw length
- 14" long

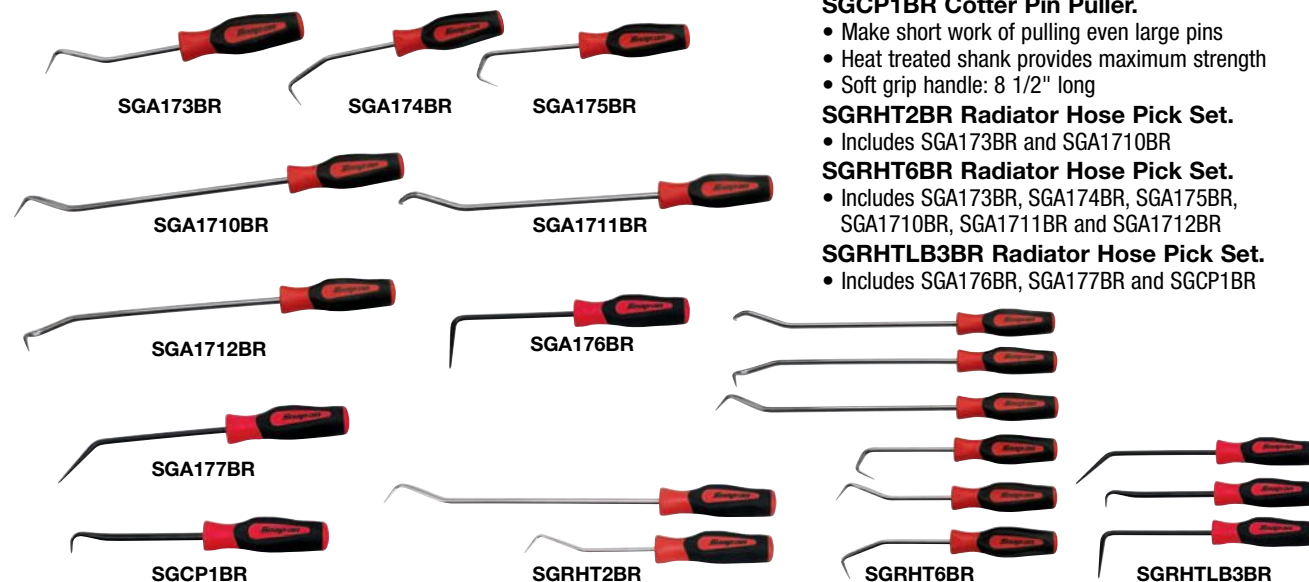
PHP3 Hose Clamp Pliers.

- Clamp off hoses up to 3/4" in diameter
- Swivel jaws for parallel clamping action
- 1 1/4" jaw length
- 5 1/2" long
- Black industrial finish

Soft Grip Hose Picks

- Ideal for removing and replacing hoses and clamps
- Unique hose blade design for getting around the most difficult obstacles
- Soft, solvent resistant handle material provides a sure, comfortable grip

Stock No.	Finish	Blade Length, inches (mm)	Length, inches (mm)
SGA173BR	Chrome	5.43 (137.9)	10.33 (262.4)
SGA174BR	Chrome	4.94 (125.5)	9.84 (249.9)
SGA175BR	Chrome	4.61 (117.1)	9.51 (241.6)
SGA1710BR	Chrome	11.66 (296.1)	16.56 (420.6)
SGA1711BR	Chrome	10.89 (276.6)	15.79 (401.1)
SGA1712BR	Chrome	11 (279.6)	15.91 (404.1)
SGA176BR	Industrial Finish	5.62 (142.9)	10.50 (266.7)
SGA177BR	Industrial Finish	5.19 (131.8)	10.09 (256.2)
SGCP1BR	Industrial Finish	5.15 (130.8)	10 (254)



Heater Hose Clamp Pliers

SHCP1 Hose Clamp Pliers.

- Unique jaw design will work on all 3 styles of hose clamps in the automotive market (standard, space saver and pre opened)
- Bi mold grips provide more comfort and control while reducing hand fatigue
- Cable snap provides an easy storage feature
- Round base ratcheting system provides a larger catching surface area on the locking feature
- Lock lever has 2 matched locking gears with a deep cut to prevent slipping and wearing
- Flexible cable reaches into tight places with minimal effort

SGA173BR Radiator Hose Pick.

- Use for easy access applications

SGA174BR Radiator Hose Pick.

- Perfect for tight access firewall applications

SGA175BR Radiator Hose Pick.

- Ideal for getting behind hoses and pulling

SGA1710BR Radiator Hose Pick.

- Longest pick for extra reach

SGA1711BR Radiator Hose Pick.

- Length and angle are designed for tight access and long reach firewall applications

SGA1712BR Radiator Hose Pick.

- Long pick easily maneuvers around obstacles

SGA176BR Radiator Hose Pick.

- 45° pick for restricted access applications

SGA177BR Radiator Hose Pick.

- 90° pick for restricted access applications

SGCP1BR Cotter Pin Puller.

- Make short work of pulling even large pins
- Heat treated shank provides maximum strength
- Soft grip handle: 8 1/2" long

SGRHT2BR Radiator Hose Pick Set.

- Includes SGA173BR and SGA1710BR

SGRHT6BR Radiator Hose Pick Set.

- Includes SGA173BR, SGA174BR, SGA175BR, SGA1710BR, SGA1711BR and SGA1712BR

SGRHTLB3BR Radiator Hose Pick Set.

- Includes SGA176BR, SGA177BR and SGCP1BR

Expanding the Reach of Your Business.

It's the tools and equipment you use every day, so you need it to be as efficient as possible. Snap-on provides the versatility to work on a wide variety of vehicles—ensuring jobs that come to your shop, stay at your shop.

Whether it is adding a new business or upgrading existing equipment, **Snap-on® Tire Changers and Wheel Balancers** will allow shops to service high-end tire and wheel packages as well as the everyday drivers. Complete these jobs and add an additional service opportunity with a tire pressure monitoring tool and related accessories to service these critical systems.

Technicians will appreciate service tools like torque sticks and lug nut sockets to quickly and accurately perform the job. The **Snap-on Ball Joint Press** will allow you to remove and install ball joints with ease, minimizing lost time.



WHEEL BALANCING

Wheel Balancers

Snap-on® Wheel Balancers use a patented Virtual Plane Measurement® system to achieve accuracy and repeatability. A variety of weight placement options such as Static, Dynamic, five ALU modes, ALU-S, hidden spoke and match mounting optimization modes provide the versatility for these balancers in a variety of applications on passenger cars, light trucks and commercial vehicles.



EEWB304D



EEWB305D

Motorized Wheel Balancer

EEWB304D Motorized Wheel Balancer.

- 2 parameter auto entry to measure rim offset and distance by touching the distance gauge to the rim
- Molded weight tray has 16 weight storage pockets

Hand Spin Wheel Balancer

EEWB305D Hand Spin Wheel Balancer.

- Single parameter auto entry to measure rim offset by touching the distance gauge to the rim
- Molded weight tray has 12 weight storage pockets

Standard Accessories - 40 mm Shaft

Specifications	EEWB304D	EEWB305D
Operation	Motorized	Handspin
Accuracy, oz (grams)	0.10 (2)	0.10 (2)
Rim Diameter, inches (mm)	8-30 (203-762)	6-30 (152-762)
Rim Width, inches (mm)	3-25 (76-635)	1-20 (25-508)
Maximum Tire Diameter, inches (mm)	44 (1,118)	44 (1,118)
Maximum Wheel Width, inches (mm)	20 (508)	19 (482)
Maximum Tire/Wheel Weight, lbs (kg)	154 (69)	120 (54)
Shaft Speed at Calculation, rpm	200	119
Cycle Time, seconds	<7	<15
Electrical Requirements	115 V, single phase, 60 Hz, 15 A	115 V, single phase, 60 Hz, 15 A
Shipping Weight, lbs (kg)	325 (148)	230 (105)
Required Floor Space, inches	62 W x 65 D	60 W x 48 D

Stock Number	Description
EAM0003J05A	Small Cone - 1 11/16 to 2 17/32"
EAM0003J06A	Medium Cone - 2 3/16 to 3"
EAM0003J07A	Large Cone - 2 13/16 to 3 19/32"
EAM0003J08A	Truck Cone - 3 3/8 to 5 1/32"
EAA0263G66A	Quick Nut 40 mm
EAC0058D08A	Pressure Disk
EAC0058D15A	Rubber Protector
EAM0021D90A	Stub Shaft 40 mm
WWPR13A	Wheel Weight Pliers (Optional)
EAA0247G21A	Rim Width Caliper
EAA0346J75A	Optional 1" Extension Flange
EAA0346J76A	Optional 2" Extension Flange
EAK0221J64A	AC Adaptor (EEWB305D only)

TECHNICAL SUPPORT
1-800-225-5786

Balancer Pin Plate Sets

- Pin plate kits accurately align and center the rim to the wheel balancer
- Eliminate misalignment and save time by balancing accurately the first time
- Works with wheel balancers that have a 40 mm shaft (EEWB305C and D, EEWB304C and D)
- Optional EAA0255J33A Upgrade Kit for older Snap-on® Balancers with 28.5 mm shaft (EEWB304A and B and EEWB305A and B)

EEWB3-1 Car, Lt. Truck and SUV Pin Plate Kit (Blue-Point®).

EEWB3-2 Lt. Truck and SUV Pin Plate Kit (Blue-Point®).

EEWB3-04 Stand for Pin Plate Kits.

KRD401A Wheel Weight Cabinet.

- Storage for a wide assortment of wheel weights
- 36 compartments, each measuring 3 7/8" x 3 7/8"

WWPR13A Right Angle Wheel Weight Pliers.

- Easily removes and replaces wheel weights as well as cutting and crimping
- Made of heat strengthened steel
- Comfortable vinyl handle grips and replaceable hard plastic hammer tip

WWH13LG Wheel Weight Hammer.

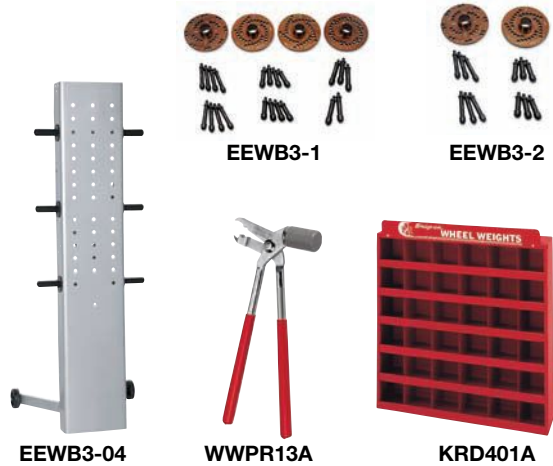
- Designed for use on steel and zinc clip on wheel weights
- Soft hammer face to avoid scratches and dings
- Solid Nuplaglas® handle resists most shop chemicals and has a nonslip grip
- Replaceable cold rolled steel hook assembly to ensure long service life
- Works best on U.S. brands that use traditional dimension dismounting holes

WWH13SM Wheel Weight Hammer.

- Designed for use on steel and zinc clip on wheel weights
- Soft hammer face to avoid scratches and dings
- Solid Nuplaglas handle resists most shop chemicals and has a nonslip grip
- Replaceable cold rolled steel hook assembly to ensure long service life
- Specially designed small diameter dismounting hook is used on wheel weights with smaller dimension dismount holes

WWPR13-3 Replacement Hammer Tip.

- For WWPR13A



Component Description	EEWB3-1	EEWB3-2
EEWB3-11 Adaptor Plate #1	•	
EEWB3-12 Adaptor Plate #2	•	
EEWB3-13 Adaptor Plate #3	•	
EEWB3-14 Adaptor Plate #4	•	
EEWB3-21 Adaptor Plate SUV Lt Trk #1		•
EEWB3-22 Adaptor Plate SUV Lt Trk #2		•
EEWB3-01 Stud A (1 each)	8X	6X
EEWB3-02 Stud B (1 each)	8X	6X
EEWB3-03 Stud C (1 each) 5	5X	
EEWB3-04 Stand	Optional	Optional

TECHNICAL SUPPORT
1-800-242-6687

Motorcycle Wheel Balancer and Tire Changer

EEWB308D Motorcycle Wheel Balancer.

- Quickly, easily and accurately balance motorcycle tire and wheel assemblies
- Hand spin operation with features similar to EEWB305D

EEWH310B Motorcycle Tire Changer.

- Configured to change tires on most motorcycle wheels
- Raised clamping jaws to allow for hub clearance
- Optional safety restraint arm provides additional tire/wheel retention when seating beads



Specifications	EEWB308D
Accuracy, oz (grams)	0.10 (2.8)
Cycle Time (15" wheel)	<8 seconds
Shaft Measuring Speed	< 100 rpm
Shaft Capacity, lbs (kg)	60 (27.2) maximum
Rim Diameter, inches (mm)	6-30 (152-762)
Rim Width, inches (mm)	1-20 (25-508)
Tire Diameter, inches (mm)	44 (1,117) maximum
Tire Width, inches (mm)	16 (406.4) maximum
Electrical Requirements	120 V AC, 60 Hz
Shipping Weight, lbs (kg)	225 (102)

	EEWH310B Motorcycle Tire Changer
Outside Clamping Range, inches	8-21
Inside Clamping Range, inches	12-20
Rim Width, max, inches	12/10
Tire Diameter, max, inches	39
Tire Width, max, inches	10/13*
Bead Breaking Width, max, inches	13
Bead Breaking Force, lbs @150 psi	3,300
Air Requirement, psi	140-170
Voltage Requirements	120 V AC, 60 Hz
Net Weight, lbs	306
Overall Height, inches	67 H x 30 W x 28 D

10-18" car, 8-15" scooter, 15-21" motorcycle
* 13" car, 10" motorcycle

TECHNICAL SUPPORT
1-800-225-5786



WARNING



- Read and follow all safety messages in instructions
- Read safety precautions on pages W1 to W4

TIRE CHANGERS

Tire Changers

Snap-on® Tire Changers come in a variety of models to fit each individual shop's needs. The Tilt Back Tire Changer handles a variety of tire sizes and configurations, with a tower that tilts back to allow for wider tire and wheel assemblies and features a Pneumatic Bead Assist arm to assist the operator when mounting low profile tires. The Workhorse Tire Changer has basic features for a shop that is new in the tire business or as an additional unit in a high volume shop.



EEWH306A



EEWH311A

Common Features for all Snap-on Tire Changers

- Mount/dismount head adjusts to correct position and is designed to avoid direct contact with the rim
- 6 point contact rim clamping jaws provide additional slip resistance. Side mounted bead breaker for virtually all rim configurations
- Side mounted bead breaker for virtually all rim configurations
- Plastic rim protection guards on the clamping jaws along with the mount/dismount head minimize wheel damage
- Provides added air assistance for seating stubborn beads
- Twin cylinder clamping offers more clamping force and provides a uniform clamping pressure on the rim
- Optional accessories available to increase clamping capability (+4 adaptors)
- Optional safety restraint arm provides additional tire/wheel retention when seating beads

	EEWH306A Workhorse Tire Changer	EEWH311A Tilt Back Tire Changer	EEWH317A Deluxe Tire Changer	EEWH315A Deluxe AIR/AIR Tire Changer
Type	Swing	Tilt	Swing	Swing
Pneumatic Bead Assist	EAA0329G33B*	Included	Included	Included
Outside Clamping Range, inches	10-18	10-24	10-24	10-24
Inside Clamping Range, inches	12-20	12-24	12-24	12-24
Rim Width, max, inches	12	14	13	13
Tire Diameter, max, inches	39	39	39	39
Tire Width, max, inches	13	14	13	13
Bead Breaking Force, lbs @150 psi	3,300	3,300	3,300	3,300
Air Requirements, psi	140-170	140-170	140-170	140-170
Voltage Requirements	120 V 60 Hz, 20 A	120 V 60 Hz, 20 A	120 V 60 Hz, 20 A	
Net Weight, lbs	449	719	661	558
Overall Height x Width x Depth, inches	68 x 41 x 49	69 x 41 x 55	75 x 39 x 45	75 x 39 x 45
+4 Adaptors	ST4029446*	EAA0332G91A*	EAA0304G76A*	EAA0304G76A*
Safety Restraint Arm	EAA0270J11A*	EAA0304G72A*	EAA0270J14A*	EAA0270J14A*

* Optional

TECHNICAL SUPPORT
1-800-225-5786

Tire Pressure Monitoring

Snap-on® Tire Pressure Monitoring tools work with most foreign and U.S. systems that are both direct and indirect. Whether it is an automotive repair shop, tire store, body shop, fleet repair facility or lube bay, these TPM tools are essential to servicing the customer's needs.

TPMS3 Tire Pressure Sensor System Tool Kit.

- Covers U.S., European and Asian vehicle TPM systems
- Model specific sensor testing and verification
- On screen display of sensor information
- Includes database of step by step vehicle specific relearn procedures
- Properly reset TPM systems after sensor replacement or tire rotation
- Reprogram sensor IDs on Asian vehicles through OBDII connector
- Tests key FOBs for proper signal strength
- Updateable via USB and PC
- Built-in Li-ion rechargeable battery
- Kit includes TPMS3 Tool, Charging Cradle, OBDII Connector and Cable, Magnet and USB Cable
- CE



TPMS3



TPMS3-3



TPMS3-2



Diagnoses and tests OE TPM Sensors



Make, model and year specific relearn procedures



Wireless Key FOB test

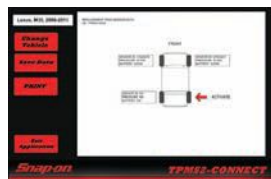
TECHNICAL SUPPORT
1-888-621-8767



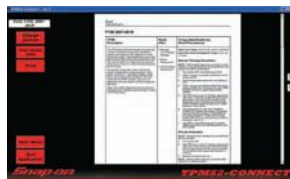
TPMS2

TPMS2 Tire Pressure Monitor Tool.

- Simple to use activation and resetting of TPM sensors and systems
 - Vehicle selection interface quickly configures the TPMS2 for fast sensor activation and testing
 - Interactive PC Software included to display vehicle specific TPMS service procedures and sensor specific information
 - Wireless communication capability via Bluetooth® technology* between the TPMS2 and PC for information transfer or with supplied USB cable
 - Kit includes TPMS2 Tool, PC software and USB Cable
- Note: Requires Bluetooth capable PC for wireless communication



Vehicle sensor data output



Repair procedures by vehicle

TPMS2EZ EZ-Sensor® Programming Module Update Kit.

- Provides the ability to program EZ-sensor using TPMS2
 - Used to replace a sensor with low battery life or one that is nonfunctioning
 - Also used to install a duplicate set of sensors in a summer/winter set of tires
 - Minimize sensor inventory costs, one sensor for multiple vehicle models
- Note: Sensor and TPMS2 not included



TPMS2EZ

EZ-sensor



TPMS2-5

Optional TPMS2 Accessories TPMS2-5 TPMS2 Charging Station.

- Charges TPMS2 when not in use

TECHNICAL SUPPORT
1-888-498-7671



WARNING



- Read and follow all safety messages in instructions
- Read safety precautions on pages W1 to W4

TIRE AND WHEEL

TPMS Tools



TPMS3BOX



QDTPMS



VSC4KT

TPMS Tools

TPMS3BOX TPMS Sensor Bench Tester.

- Tests TPMS sensors without having to mount in a tire/wheel assembly
- Pressurizes sensor to simulate actual conditions
- Used with Tire Pressure Monitoring System Tools
- Saves time in mounting/dismounting tire

QDTPMS Valve Core Torque Tool.

- Specifically designed to be used as a core remover and precise installer for TPMS tire valve to eliminate risk of damaging expensive TPMS sensors
- Preset to 4 ft lb to prevent over or undertorquing
- Preset torque setting also helps prevent valve core leaks that lead to low tire pressure and TPMS alerts

VSC4KT TPMS Valve Stem Cap Set.

- Quickly evacuate air without removing Valve Cores
- Replace a standard sized valve cap with this tool, will depress the valve stem for rapid deflation
- Return your wheels to the original position without resetting the TPMS
- Caps are clearly marked for easy identification for the reinstall
- Blue anodizing makes caps easily visible on most rims or tires
- Knurling provides sure grip even in greasy situations
- Back side of the tool allows for valve cap storage while the tools are in use
- Vinyl holder included to keep valve stem caps together when not in use
- Kit includes VSC4KT-1, VSC4KT-2, VSC4KT-3 and VSC4KT-4 Valve Stem Caps

Inflators



TPGDL1000



TGIFS1

Inflators

TPGDL1000 Digital Tire Pressure Gauge/Inflator (Blue-Point®).

- Measures from 5 to 150 psi
- Displays reading in psi, BAR kPa or kg/m
- 1/4" NPT fitting for inlet air connection
- Shockproof rubber guard to prevent damage when dropped
- On/Off button for display light
- Clip on air chuck and dual foot chuck included
- Batteries included
- ±1% accuracy

TGIFS1 Tire Gauge Inflator.

- Snap-on® exclusive design
- Heavy duty billet machined aluminum body
- Dual swivel point hose for ease of use
- 20 to 160 psi range
- Modular design for easy replacement of worn parts
- Double sealed scale avoids contamination from air supply
- ±1% accuracy



TPGIF1600

TPGIF1600 Tire Gauge and Inflator (Blue-Point).

- 10 to 120 psi in 2 lb increments
- 1/4" FNPT air inlet fitting
- Swiveling hose for easy gauge positioning
- Zinc body with heavy duty brass valves
- Easy to read sight glass featuring psi and kPa readings
- ±1% accuracy



TIFHD160

TIFHD160 Truck Tire Inflator (Blue-Point).

- Inflate heavy duty truck tires quickly and safely
- gauge measures from 6 to 160 psi (40 to 1100 KPA)
- Includes 14" Dual Foot Budd Chuck with locking threads
- High quality 48" extended rubber hose (Tested to 300 psi)
- 1/4" NPT Brass fitting for inlet air connection
- 360° swiveling gauge for easy reading
- Rubber gauge guard for added shock resistance
- Rugged eared gauge Construction (not bourdon tube like most dial gauges) for added durability
- 48" hose and chuck allow a tire technician to stand outside of the trajectory zone as noted in OSHA1019.177 standards, servicing multi-piece and single piece rim wheels. This standard requires a "sufficient length of hose" exist between the chuck and valve

Tire Pressure Gauges (Blue-Point®)



TPGD150



TPGD150

Digital Tire Pressure Gauges

TPGD150 Digital Tire Pressure Gauge.

- Ranges from 5 to 150 psi in 0.5 increments
- Flexible 11" braided hose with dual foot chuck helps access hard to reach tire valves
- Black ribbed gauge guard provides a sure gripping surface and helps protect the gauge if dropped
- Auto shutoff extends battery life
- 1% accuracy

TPGD150 Digital Tire Pressure Gauge.

- Backlit for easier measurement reading
- Auto shutoff extends battery life
- 5 to 150 psi reading
- Shockproof rubber guard to prevent damage when dropped
- Molded finger grips for added comfort
- Heavy die cast faceplate
- Includes steel belt clip and batteries
- $\pm 1\%$ accuracy



TPRG60



PG160



TPDLIF150



TPG15

Dial Type Pressure Gauges

TPRG60 TPMS/Racing Tire Gauge.

- Ideal for applications requiring precise readings like TPMS gauge testing and performance driving
- PowerFlex™ movement is both durable and accurate
- $\pm 1\%$ accuracy

PG160 Dial Type Pressure Gauge.

- Calibrated in 1 psi increments from 10 to 160 psi
- 2 1/2" diameter dial gauge with shock resistant gauge movement
- 12" flex hose for hard to reach valves (16" with chuck)
- Bleeder valve to relieve excess pressure to achieve proper inflation
- Dual foot chuck
- $\pm 1\%$ accuracy

TPDLIF150 Dual Tire Inflator.

- Fill 2 large truck tires simultaneously
- Set desired pressure, lock on the air chucks and walk away
- System includes (2) 4' flexible hoses and 2 lock on air chucks (1 standard, 1 dual foot)
- Large, easy to read air gauge/regulator allows user to set desired pressure
- Gauge is calibrated in 5 psi increments from 0 to 150 psi and 0.2 kg/cm² increments from 0 to 10 kg/cm²
- Includes mounting bracket

TPG15 Low Pressure Tire Gauge.

- Low pressure gauge for ATVs, lawnmowers, motorcycle fork tubes and more
- Unique design offers superior shock resistance: movement from socket is isolated, reducing effects of shock
- Silicone dampened gears and enhanced vibration dampening design cushion movement for extended gauge service
- Clear and concise, easy to read 1 to 15 psi gauge displays in 1/4 psi increments
- $\pm 1\%$ accuracy

Best results when tire gauge is used in the middle of pressure scale

* 1% accuracy = 1% of pressure scale



WARNING



- Do not exceed rated pressure
- Read safety precautions on pages W1 to W4

TIRE AND WHEEL

Tire Pressure Gauges



Pencil Tire Pressure Gauges

PGP120 Pressure Gauge (Blue-Point®).

- Calibrated in 2 psi increments from 10 to 120 psi and in 10 kPa increments from 100 to 800 kPa
- Chrome body
- 1% gauge accuracy
- 5 3/4" long

PGP45LQ Air Liquid Pressure Gauge (Blue-Point).

- Calibrated in 1 psi increments from 5 to 45 psi
- Can be used on any standard or liquid solution filled tires
- Spring retracts into gauge, causing pump action to expel tire liquid
- Chrome body
- 1% gauge accuracy
- 5 15/16" long

PGPL150 Tire Gauge (Blue-Point).

- Calibrated in 2 psi increments from 10 to 150 psi
- Straight dual foot is well suited for Budd truck style tires
- 30° angle reverse foot assists in hard to reach areas
- Includes hanging clip
- Chrome body
- 1% gauge accuracy
- 12" long

PGP50 Pressure Gauge (Blue-Point).

- Calibrated in 1 psi increments from 5 to 50 psi and 5 kPa increments from 50 to 350 kPa
- Chrome body
- 1% gauge accuracy
- 5 3/4" long

TGS1

TGS1 Sight Glass Test Gauge.

- Gauge is accurate enough to use for TPMS applications
- Rugged sight glass design for better durability and readability
- 1% Master Gauge Accuracy, with certificate of accuracy included
- Durable billet machined 6061-T6 aluminum body
- Dual Foot Budd Chuck
- 10 to 160 psi
- Unique comfort grip for easy use
- Can be calibrated in the field (Instruction included)

Best results when tire gauge is used in the middle of pressure scale Note: 1% accuracy = 1% of pressure scale

Closed Air Chucks

For use on air lines only. Do not use on inflators.

Closed Air Chucks

GA296B Angled Air Chuck (Blue-Point).

- 1/4"-18 female NPT
- Rubber gasket included

GA358 Air Chuck.

- Screwdriver style black handle
- Thread size of 1/4" NPT
- Overall length of 7"

GA359 Dual Foot Air Chuck.

- Easily access hard to reach inner tandem wheels
- Tilt lock feature locks onto the valve
- 30° reverse angle chuck can be used on outside tires
- Screwdriver style handle
- Thread size of 1/4" NPT
- Overall length of 12"



GA296B

GA359

GA356B

GA358

YA173A

GA460B

TPDF14

YA173A Clip on Style Angled Air Chuck (Blue-Point).

- 1/4"-18 female NPT
- Spring loaded, trigger operated valve stem clip
- Maximum operating pressure is 200 psi

GA356B Dual Foot Air Chuck (Blue-Point).

- 1/4"-18 female NPT with 5/8" hex nut
- Straight foot works well on Budd style wheel rims
- 30° angle reverse foot is helpful in limited access situations
- 6 1/2" long

GA460B Dual Foot Air Chuck (Blue-Point).

- 1/4"-18 female NPT
- 6 1/8" long

TPDF14 Long Reach Dual Foot Air Chuck (Blue-Point).

- 14" Long reach dual chuck
- Straight on chuck with 30° reverse chuck
- All metal components
- Work well for reaching dual wheel truck tires
- Compatible with Snap-on® and Blue-Point inflators

Open Air Chucks

For use on inflators only. Do not use on air lines.



GAOC356

GAOC460

TPDFOC14

Open Air Chucks

GAOC356 Dual Foot Air Chuck (Blue-Point).

- 1/4"-18 female NPT with 5/8" hex nut
- Straight foot works well on Budd style wheel rims
- 30° angle reverse foot is helpful in limited access situations
- 6 1/2" long

GAOC460 Dual Foot Air Chuck (Blue-Point).

- 1/4"-18 female NPT
- 6 1/8" long

TPDFOC14 Long Reach Dual Foot Air Chuck (Blue-Point).

- 14" Long reach dual chuck
- Straight on chuck with 30° reverse chuck
- All metal components
- Work well for reaching dual wheel truck tires
- Compatible with Snap-on and Blue-Point inflators

Maximum rating on all Snap-on air chucks is 150 psi



TR107A



TR108



TR109



TR1170



VT1A



GA143B



VT14



QDTPMS

Valve and Stem

TR107A Valve Core Tool.

- For installation and removal of standard valve cores
- Screwdriver style handle
- 6 1/4" long

TR108 Valve Core Tool.

- Similar to TR107A.
- 4 3/4" long

TR109 Valve Core Tool.

- Use to remove or replace valve cores on air conditioning systems (large bore)
- 6 3/4" long

TR1170 Valve Core Remover/Installer Tool.

- Valve core remover/installer tool
- 6 1/4" long

VT1A Valve Stem Inserter.

- Simplify installation of valve stem in tubeless tire rim
- Notched shank to accommodate various rim styles
- Comfortable screwdriver type handle

GA143B Valve Core and Stem Tool (Blue-Point®).

- 4 function tool inserts and removes cores, taps inner stem threads and chases outer threads
- 1 7/8 x 13/16"

VT14 Universal Valve Core Tool (Blue-Point).

- Double ended bit removes and installs large and small valve cores
- Reverse the double ended wrench in the tool body to fit both large and small valve cores
- Use the cup end to remove valve caps

QDTPMS Valve Core Torque Tool.

- Specifically designed for TPMS® tire valve cores to eliminate risk of damaging expensive TPMS sensors
- Preset to 4 in lbs to prevent over or under torquing and valve core leaks that lead to low tire pressure and TPMS alerts

Tread Depth Gauge

GA599A Tread Depth Gauge.

- Measures to a depth of 1" in 1/32" increments
- Plastic body with aluminum probe and sliding gauge
- Includes pocket clip

TDG1 Tread Depth Gauge.

Same as the GA599A but the gauge is color coded for easy tread wear diagnosis.



GA599A



TDG1



WARNING



• Read safety precautions on pages W1 to W4

TIRE AND WHEEL

Wheel Torque Tools (Blue-Point®)



BTQS500



BTQS600



BTQS1000



BTQSHD400



TSS2KT



305TSKTA

Torque Sticks/Standard Duty

- Strobe marks stop turning at precisely the right torque
- Engineered for rugged professional environments
- Manufactured with heat treated Swedish spring steel in a solid one piece design
- Sticks are individually packaged
- Sets come with a color coded torque chart showing the correct stick for nearly every foreign and U.S. vehicle
- Lifetime guarantee

Stock No.	Size, mm	Color	Torque Limit, ft lbs	Drive, inches	Set Contains:		
					BTQS500	BTQS600	BTQS1000
BTQS12A	21	Brown	100	1/2			•
BTQS12AA	22	Orange	75	1/2		•	
BTQS12B	21	Lt. Brown	80	1/2	•		•
BTQS12BB	21	Charcoal	147	1/2	•		•
BTQS12C	19	Gray	100	1/2	•		•
BTQS12D	21	Black	60	1/2			
BTQS12E	19	Blue	80	1/2			•
BTQS12EE	22	Turq.	140	1/2	•		•
BTQS12F	19	Yellow	65	1/2			•
BTQS12G	17	Red	80	1/2		•	
BTQS12H	17	Green	55	1/2		•	
BTQS12HH	22	Medium Brown	110	1/2			
BTQS12I	22	White	120	1/2	•		•
BTQS12K	17	Lt. Yellow	113	1/2			•
BTQS12KK	21	Red-Orange	110	1/2			
BTQS12MM	17	Off White	90	1/2			•
BTQS12NN	19	Lt. Tan	90	1/2			
BTQS1200	19	Quartz	120	1/2			
BTQS12T	24	Lt. Green	140	1/2			•
BTQS12UU	14	Mud	80	1/2			
BTQS12XX	21	Lt. Purple	160	1/2			•
BTQS12Y	22	Lt. Blue	100	1/2			•

BTQSWC10 Wall Chart. Color wall chart for service bays

Sets shown include storage case

Torque Sticks/Heavy Duty

Stock No.	Size inches, (mm)	Color	Torque Limit, ft lbs	Drive, inches	Set Contains:	
					BTQSHD400	
BTQSHD34114	1 1/4	HD Red	250	3/4		
BTQSHD3433M	(33)	HD Brown	475	3/4		
BTQSHD1114	1 1/4	HD Red	250	1		•
BTQSHD133M	(33)	HD Brown	475	1		•
BTQSHD1112	1 1/2	HD Black	475	1		•
BTQSHD11316	1 3/16 sq.	HD Yellow	475	1		•

Set shown includes storage case

Torque Sticks/Special Application

Stock No.	Size, mm	Color	Torque Limit, ft lbs	Set Contains:	
				TSS2KT	
TSS2TT	22	Pink	150		•
TSS2QQ	22	Salmon	95		•

Torque Extensions

- Help eliminate overtorqued lug nuts, broken or damaged studs and distortion of rotors, drums and wheels
- Color coded low friction sleeve for quick reference
- Cold formed special alloy steel for greater accuracy and strength
- 1/2" male and female square drive for use with appropriate impact socket
- Female square drive designed for improved retention on impact wrenches
- Male square drive has friction ring for secure socket retention

Stock No.	Color	Torque Limit, ft lbs	Set Contains:	
			305TSKTA	
TSKT65A	Yellow	65		•
TSKT80A	Blue	80		•
TSKT100A	Gray	100		•
TSKT120A	White	120		•
TSKT140A	Teal	140		•

Set shown includes storage case

Lug/Retaining Nut Sockets (Blue-Point®)

Lug Nut Sockets

LSR1500 Standard/Twist Wheel Flip Socket Set.

- 5 sockets for use on the most popular lug nut sizes (17, 19 mm, 3/4", 21 mm, 13/16" and 7/8")
- 6 point Flank Drive® wrenching system at one end and a 6 fluted twist socket at the other end
- Flip the socket when encountering a damaged head
- Knurling identifies twist socket end
- Sockets and 3" extension are all 1/2" drive for use with hand drivers or impact wrenches
- Black oxide finish
- Storage case



LSR1500

LSR2000 Thinwall Wheel Flip Socket Set.

- Covers the 4 most popular lug nut sizes (3/4 and 13/16", 19 and 21 mm) Flank Drive wrenching configuration
- 1/2" square drive located at center of socket
- Use with hand driver or impact wrench
- Includes LSR1150 and LSR1250 lug nut sockets and 3" extension in a custom case
- Black industrial finish



LSR2000

LSR2000PLUS Lug Nut Flip Socket Set.

- 3 flip sockets in 3/4 and 13/16, 7/8 and 15/16" plus 19 and 21mm
- All sockets are 3" long
- 1/2" square drive located at center of socket
- Use with hand driver or impact wrench
- Custom case
- Black industrial finish on all components
- Requires use of optional LSR1000EXT extension (not included)



LSR2000PLUS

LSR1150 Thinwall Wheel Flip Socket.

- Thinwall wheel flip socket covers 3/4 and 13/16" wheel lug sizes
- Use with hand driver or impact wrench
- 3" long



LSR1150

LSR1250 Thinwall Wheel Flip Socket.

- Thinwall wheel flip socket covers 19 and 21 mm wheel lug sizes
- Use with hand driver or impact wrench
- 3" long

LSR2500 Lug/Lock Flip Twist Socket Set.

- Quickly and easily remove damaged wheel lugs (6 flute end) or damaged wheel locks with damaged or lost keys (12 flute end)
- 1/2" square drive located at center of socket
- Use with hand driver or impact wrench
- Includes LSR2501 and LSR2502 lug/lock sockets and 3" extension in a custom case
- Black industrial finish



LSR2500

LSR2501 Lug/Lock Flip Twist Socket.

- 3/4" - 19 mm twist socket quickly and easily removes damaged wheel lugs (6 flute end) or damaged wheel locks with damaged or lost keys (12 flute end)
- Use with hand driver or impact wrench
- Black industrial finish: 2 5/8" long



LSR2501

LSR2502 Lug/Lock Flip Twist Socket.

- Same as LSR2501 except in 7/8" size

LSR2503 Lug/Lock Flip Twist Socket.

- Same as LSR2501 except in 17 mm size

LSR2500PLUS Lug/Lock Flip Twist Socket Set.

- Quickly and easily remove damaged wheel lugs (6 flute end) or damaged wheel locks with damaged or lost keys (12 flute end)
- 1/2" square drive located at center of socket
- Use with hand driver or impact wrench
- Includes LSR2501, LSR2502 and LSR2503 lug/lock sockets in a custom case



LSR2500PLUS

- Black industrial finish
- LSR1000EXT is optional 3" extension for the set

LSR1450 Thinwall Wheel Flip Socket.

- Covers 17 and 19 mm wheel lug sizes
- Flank Drive wrenching configuration
- 1/2" square drive located at center of socket (requires optional extension LSR1000EXT)
- Ideal companion to LSR2000 and LSR2000PLUS
- Black industrial finish
- Major O.D.: 1.03" (26.3 mm) – Minor O.D.: 0.94" (23.9 mm)
- Length: 3" (76.2 mm)

LSR1580 Thinwall Lug Nut Flip Socket.

- 21 and 22 mm socket size: 3" long
- Use with hand driver or impact wrench
- Requires use of optional LSR1000EXT extension
- 1/2" square drive located at center of socket

LSRM2000 Metric Flip Socket Set.

- Includes LSR1580 and LSR1450 sockets plus LSR1000-EXT 3" extension

- Designed for 2005 and later vehicles
- Includes 17, 19, 21 and 22 mm sizes

Applications: Dodge® Pickup 1500, Dodge SRT-10, Honda® Odyssey, Land Rover® L3, Range Rover and Sport, Lexus® LX470 and Toyota® Land Cruiser vehicles

LSR1560 Flip Socket.

- 7/8 and 1" socket size: 3" long
- Use with hand driver or impact wrench
- Expands LSR2000 and LSR2000PLUS sets
- Requires use of LSR1000EXT extension (not included)
- 1/2" square drive located at center of socket

Applications: (7/8") Chevy®, MC® vans, Dodge 1500 Ram Pickup, Ford® E250/350, Ford Super Duty, Hummer® H1, Lincoln® Blackwood, Lexus LX470, Toyota Land Cruiser, Jaguar® XJ Series, (7/8 and 1") Chevy/GMC Pickups and SUVs, (1") Plymouth® 1 ton vans

LSR1570 Flip Socket.

- 15/16 and 1 1/16" socket size: 3" long
- Use with hand driver or impact wrench
- Expands LSR2000 and LSR2000PLUS sets
- Requires use of optional LSR1000EXT extension
- 1/2" square drive located at center of socket

Applications: (15/16") Dodge Ram 2500, 3500, (1 1/16") Land Rover, Range Rover Discovery II, Ford E300/350, Ford F300/350



WARNING



• Read safety precautions on pages W1 to W4

TIRE AND WHEEL

Lug/Retaining Nut Sockets



DW402C



YA1005C



2003LN



A98A



IMX32B



TSR1000



TSR700



TSR800



TSR1250



TSR1230

Lug Nut Sockets

DW402C Dayton Lug Nut Impact Socket.

- 3/4" square drive with a 1 1/4", 6 point wrench opening
- Use with socket retainers

YA1005C Locking Lug Nut Remover Kit (Blue-Point®).

- Removes locking lug nuts and locking hubcaps on most vehicles including the new Chrysler® hubcap locks. Updated set includes new turbo lug nut socket to easily remove damaged 3/4", 13/16", 19 and 21 mm lug nuts
- Tapered swirl in socket bites into damaged lug nut for quick removal
- Intended for hand use only, except for turbo lug nut socket, which should be used with an impact wrench

2003LN Double Ended Lug Nut Socket Set.

- Set includes A98A socket, A98M socket, and IMX32B extension bar (3 pcs)

A98A 6 Point Lug Nut Socket.

- 1/2" square drive is recessed between (2) 6 point wrench openings: 3/4 and 13/16"
- Length 2 3/4"; Diameter 13/16"

A98M 6 Point Socket.

- 1/2" square drive is recessed between (2) 6 point wrench openings: 19 and 21 mm
- Length 2 3/4"; Diameter is 13/16"

IMX32B Impact Extension.

- 1/2" square drive, 5/8" shank diameter; 3" long
- Snap ring locking mechanism

TSR1000 Lug Nut Socket Set (Blue-Point).

- Set includes TSR500 and TSR600 lug nut sockets plus YA1005-7 extractor punch
- Use TSR500 on late model OEM and aftermarket lug nuts
- Dual sided design allows use on 3/4", 13/16", 19 and 21 mm lug nuts
- TSR600 removes most locking lug nuts and has a 2 in 1 flip socket design
- For use with 1/2" drive tools
- Fluted socket design provides extra grip

TSR500 Lug Nut Remover Socket (Blue-Point).

- Use on late model OEM and aftermarket lug nuts
- Dual sided design allows use on 3/4", 13/16", 19 and 21 mm lug nuts
- Use with 1/2" drive impact wrench
- Fluted socket design helps remove most stubborn lug nuts
- Includes extractor punch

TSR600 Locking Lug Nut Socket (Blue-Point).

- 1/2" square drive is located in the center of the socket
- Use included pin to dislodge lug nut if wedged in socket
- Removes most locking lug nuts and has 2 in 1 flip socket design
- For use with impact wrench
- Fluted for extra grip

TSR700 Lug Nut Remover Socket (Blue-Point).

- Use on late model OEM and aftermarket lug nuts
- Dual sided design allows use on 7/8", 1", 22 and 25 mm lug nuts

- Use with 1/2" drive impact wrench

- 6 flute socket design helps remove most stubborn hex lug nuts

TSR800 Lug Nut Remover Socket (Blue-Point).

- Use on late model OEM and aftermarket lug nuts
- Dual sided design allows use on 7/8", 1", 22 and 25 mm lug nuts
- Use with 1/2" drive impact wrench
- 12 flute socket design helps remove most stubborn rounded lug nuts

TSR1230 Lug Nut Removal Socket Set.

- Set includes TSR1240, TSR1250, TSR1260 and TSR1270 Dual Flip sockets plus YA1005-7 Extractor Punch in custom vinyl bag
- Works great on lugs that are rusted, have missing caps or are missing caps altogether

TSR1240 Lug Nut Removal Socket.

- 21/21.5 mm socket, use for Chrysler and Dodge® applications

TSR1250 Lug Nut Removal Socket (Blue-Point).

- Dual flip 1/2" drive impact socket design
- Removes lug nuts with missing or distorted caps
- 19.5 mm side fits distorted 19 mm chrome caps found on many M® and Chrysler vehicles

- 18.5 mm side fits rusted lug nuts missing chrome covers

TSR1260 Lug Nut Removal Socket.

- 22/22.5 mm socket, use for Dodge 16 to 17" aluminum wheels

TSR1270 Lug Nut Removal Socket.

- 1 1/16"/27.5 mm socket, use for Range Rover and Land Rover applications

Lug/Retaining Nut Sockets



203FLSM

Set Contains:

203FLSM

Lug Nut Sockets (3/8" drive)

Stock No.	Square Drive, inches	Wrench size (mm)	Overall Length, inches	
FLSM1719	3/8	17 & 19	3	•
FLSM2122	3/8	21 & 22	3	•
FLS2426	3/8	3/4 & 13/16	3	•

Wheel Lock Sockets (Blue-Point®)

LSR1000A Wheel Lock Removal Socket Set.

- Easily removes most lug nuts and wheel locks on most U.S. and import passenger vehicles and light trucks
- Use with hand driver or impact wrench
- Some sockets cover specific M®, Ford® and Chrysler® applications
- Set includes 11 sockets, extension and extractor punch in storage case



LSR1000A



SIMML210

Long Lug Nut Sockets

SIMML210 Lug Nut Socket.

- Long socket designed to fit lug nut applications where an extension would be needed
- Flank Drive® wrenching configuration where the socket grips the fastener on the flanks/flats increasing torque by up to 15 to 20%
- Forged from tough alloy steel to increase safety, impact sockets are heat treated to a lower hardness to add impact resistance and ductility
- One piece design



LMS24

Lug Nut Socket (Magazine Loading) (Blue-Point)

- Allow easy multiple lug nut removal up to 5 lug nuts at a time
- Eliminates rolling or lost lug nuts and wasted motion
- Ideal for use in tire and brake shops
- Adjust type 9, 12 and 16 cu in air chambers that are equipped with 1/2 to 20" threaded rod and 3/4" nut

Stock No.	Wrench Size, inches (mm)	Square Drive, inches	Outside Dia., inches	Overall Length, inches
LMS24	3/4 (19)	1/2	1	5 5/16

Wheel Hangers

Allow faster, safer and easier balancing of wheels when attempting to insert and tighten wheel bolts.

Stock No.	Thread Size	Hex Size, mm	Applications
WHM1	M12 x 1.5	10	Mercedes-Benz, BMW, Mini, Cadillac Catera, Chrysler Crossfire
WHS1	M14 x 1.5	15	Current Mercedes-Benz, current Dodge Sprinter trucks, Freightliner Sprinter trucks from 2002 to 2004
WHV1	M14 x 1.5	10	Volkswagen, Audi, Mercedes ML Class, BMW 7 and X5 Series, Porsche

WHM2 Wheel Hanger Set (Mercedes-Benz®/BMW®). Set of (2) WHM1 wheel hangers.

WHS2 Wheel Hanger Set (Dodge®/Freightliner® Sprinter).

Set of (2) WHS1 wheel hangers.

WHV2 Wheel Hanger Set (VW®/Audi®). Set of (2) WHV1 wheel hangers.



WHM1

WHS1

WHV1

Torque Wrenches

BRUTUS3R250D U.S. Adjustable Click Type Torque Wrench.

- Tougher for longer life cycle
- Hourglass shaped cam: less friction reduces wear, retains lubricant
- Thrust bearing resists wear
- orilla-Proof positive stop prevents accidental disassembly (Caution: Do not wind below lowest scale mark)
- Larger, tougher load screw helps prevent damage due to impact
- High strength, sealed head
- Long handle provides more leverage
- ASME® specifications, traceable to N.I.S.T. at no charge



BRUTUS3R250D



WARNING



• Read safety precautions on pages W1 to W4

TIRE AND WHEEL

Lug/Retaining Nut Sockets



ANS1933A



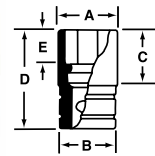
ANS1938



ANS1900B



305SIMMY



Use with a torque wrench to service truck wheel bearing lock nuts.

Axle Nut Sockets (Blue-Point®)

	Stock No.	Nominal Size	Style
1/2" Square Drive	ANS1937	2 1/2"	6 Point
	ANS1939*	2 3/8"	6 Point
	ANS1938	2 3/4"	6 Point
	ANS1900B	2 1/8"-54 mm	6 Point
3/4" Square Drive	ANS1933A**	59 mm	6 Point
	ANS1901A	2 3/32"	6 Point
	ANS1920A	2 1/4"	6 Point
	ANS1902A	2 3/8"	6 Point
	ANS1903A	2 3/8"	8 Point
	ANS1921A*	2 1/2"	6 Point
	ANS1928A*	2 9/16"	6 Point
	ANS1905A	2 9/16"	8 Point
	ANS1904A	2 9/16"	6 Point
	ANS1922A	2 5/8"	6 Point
	ANS1923A	2 3/4"	6 Point
	ANS1924A	2 3/4"	8 Point
	ANS1926A	2 13/16"	8 Point
	ANS1932A	2 7/8"	6 Point
	ANS1906A	3"	6 Point
	ANS1907A	3"	8 Point
	ANS1908A	3 1/4"	6 Point
	ANS1909A	3 1/4"	8 Point
	ANS1910A	3 1/2"	6 Point
	ANS1911A	3 1/2"	8 Point
	ANS1925A	3 3/4"	8 Point
	ANS1927A	3 13/16"	8 Point
	ANS1912A	3 7/8"	6 Point
	ANS1913A	3 7/8"	8 Point
	ANS1914A	4"	6 Point
	ANS1915A	4 1/8"	6 Point
	ANS1916A	4 3/8"	6 Point
	ANS1917A	4 3/8"	8 Point
	ANS1918A	4 7/8"	6 Point
	ANS1919A	4 7/8"	8 Point

* Fits special "rounded" hex nuts on Dana axles of some Ford trucks.

** For 1/2 ton vehicles with automatic locking nuts. Designed for late model Ford vehicles. 3/4" square drive, 59 mm nominal size. Industrial finish.

GM® Axle Nut Set (1/2" Drive)

Set Contains: 305SIMMY

Stock No.	Size, mm	A	B	C	D	E	
SIMM290	29	41.3	41.3	71.6	88.9	21.3	•
SIMM300	30	42.9	42.9	71.1	88.9	21.6	•
SIMM340	34	49.3	44.5	72.8	88.9	22.6	•
SIMM350	35	50.8	45.8	72.8	88.9	22.9	•
SIMM360	36	50.8	45.8	72.8	88.9	22.9	•



S6109A



S8695C



S6146

S6109A Axle Nut Socket 6 Lug.

- For front wheel bearing retaining nut on 3/4 ton vehicles with heavy duty suspension
- Designed for use on GM, Ford® and Dodge® trucks with Dana® 70 Series axle
- 1/2" square drive: 3 3/4" long
- Industrial finish

S8695C Axle Nut Socket 4 Lug.

- 1/2" square drive: 3 3/4" long
- For 1/2 ton vehicles with manual locking nuts
- Use on front wheel bearing retaining nut on Dana 44 Series Axle used on 1959 and later GM, Ford, Dodge, and AMC®
- Industrial finish
- Railroad applications: use to install or remove point detector bushing found on WABCO-M23B switch machines

S6146 Axle Nut Socket 4 Lug.

- For front wheel bearing retaining nut on 3/4 ton vehicles with Dana 60 Series axle used on GM, Ford and Dodge trucks
- 1/2" square drive: 3 3/4" long
- Industrial finish

Spanner Sockets



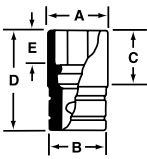
ANS1929A

For use with a torque wrench when servicing Chevrolet®, GM and Ford axles.

Stock No.	Square Drive, inches	No. of Lugs	Outside Dia., inches	Applications
ANS1929A*	3/4	6	2 5/8	Chevy/GMC with 5,200 and 7,200 lb axles.
ANS1930	3/4	6	2 7/8	Chevy/GMC with 11,000 and 13,500 lb axles.
ANS7269A	1/2	4	2 3/4	1985 and later Ford F250/F350 with floating rear axle.

*Blue-Point

Axle Nut Sockets



SIMDM300



IMDM320



IMDM390

Special Application Axle Nut Sockets, mm (1/2" Drive)

SIMDM300 12 Point Axle Nut Socket.

- 1/2" square drive

Applications: Axle nut removal for Toyota®: Avalon, Camry, Highlander and Matrix

Lexus®: ES300

Pontiac®: Vibe

VW®: Beetle, Jetta and Golf (1999 and later)

Dodge®: Dodge/Freightliner Sprinter vans with 215 mm rear axle (2004 and newer)

Applications: automatic transmission tail output shafts for Chrysler®: 300C and Crossfire (2004)

Dodge®: Magnum (2004)

Jeep®: Grand Cherokee V6 models (2005)

Mercedes®: Many years of coverage

Applications: Flange nuts on transmission drive shaft and pinion shaft differential BMW® 3 series E90.

IMDM390 12 Point Metric Shallow Impact Socket.

- Use on front axle hub of 2007 Toyota Tundra 4WD

- 1/2" drive

IMDM320 12 Point Metric Shallow Impact Socket.

1/2" drive applications:

Drive shaft nuts - VW Touareg 2003 and later

Axle nuts - Mercedes W140 chassis 1992 to 1999 SC and SL Class

Axle nuts - Porsche® Boxster, Cayenne and 944

Axle nuts - BMW X3, X5 and X6 Series 2007 and later

Stock Number	Size	Style	A	B	C	D	E
SIMDM300	30 mm	12 point			64 mm	88.9 mm	22.2 mm
IMDM320	32 mm	12 point	45.7 mm	45.7 mm	36.8 mm	50.8 mm	20.6 mm
IMDM390	39 mm	12 point	53.8 mm	39.6 mm	36.8 mm	50.8 mm	22.3 mm
SIM540A	1 11/16"	6 point	2 1/2"	1 5/8"	2 7/8"	3 1/2"	7/8"



SIM540A



SPS10

Special Application Axle Nut Sockets, inches

SIM540A 6 Point Axle Nut Socket.

- Remove or install 1996 and later Dodge truck axle nuts
- Or use on other truck and bus wheel applications
- Flank Drive® wrenching design
- 1/2" square drive

Shackle Pin Impact Sockets

- Oval shaped wrench opening services shackle pins on International® and Kenworth® semi tractors

SPS10 Shackle Pin Socket. 1/2" square drive. Socket opening is 21/32" x 1 3/32". 1 3/4" long.

SPS11 Shackle Pin Socket. 1/2" square drive. Socket opening is 21/32" x 1 17/32". 1 3/4" long.

General Lug Nut Usage

Lug Nut Size	3/4" Drive	1" Drive	Applications
7/8" Hex Deep	SIM282		Medium to light truck general usage
15/16" Hex Deep	SIM302		Medium to light truck general usage
1" Hex Deep	SIM322		Medium to light truck general usage
1 1/16" Hex Deep	SIM342	SIM343	General usage, Ford F700 8 hole wheels
1 1/8" Hex Deep	SIM362		Various
1 3/16" Hex Deep	SIM382	SIM383	Various
1 1/4" Hex Deep	DW402C*	SIM403	Heavy duty Dayton style trailers, spoke wheel type
1 5/16" Hex Deep	SIM422	SIM423	Various
1 1/2" Hex Deep	SIM482	SIM483B	Stud piloted Budd style wheel applications
1 3/4" Hex Deep	SIM562	SIM563	Construction and off road equipment applications
13/16" Square	BW626A	BW726A	Inner nuts on Budd style wheel applications
30 mm Hex Deep	SIMM302	SIMM303	Medium duty trucks, small 8 lug wheel sizes
32 mm Hex Deep	SIMM322	SIMM323	European truck applications
33 mm Hex Deep	SIMM332	SIMM333	General hub piloted wheel applications
35 mm Hex Deep	SIMM352		Import truck applications
36 mm Hex Deep	SIMM362		Import truck applications
38 mm Hex Deep	SIMM382	SIM383	Import truck applications
41 mm Hex Deep	SIMM412		Stud piloted Budd style wheel applications
1 1/2" Hex - 13/16" Square	BWD482	BWD483	Stud piloted Budd style wheel applications
41 mm Hex - 21 mm Square	BWDM412		Stud piloted Budd style wheel applications

* Thin walled extra deep.

Heavy Duty Truck Wheel Lug Sockets

HDLUGSET1 Heavy Duty Lug Socket Set.

- Includes: SIM383, SIM403, SIM483B, SIMM333, SIMM383 plus BW726A and BWD483
- Flank Drive wrenching system
- Alloy steel combines strength and durability
- All sockets 1" square drive

HDLUGSET2 Heavy Duty Lug Socket Set.

- Includes: SIM342, SIM482, SIMM332, SIMM382, SIMM412, DW402C, plus BW626A, BWD482 and BWDM412 in a PAKPB063 storage case
- Flank Drive wrenching system
- Alloy steel combines strength and durability
- All sockets 3/4" square drive



HDLUGSET1



HDLUGSET2



WARNING



• Read safety precautions on pages W1 to W4

TIRE AND WHEEL

Sockets and Bead Breakers



BWD482



BWD412



BWS1316A



WSK755



BW626A

Dual Opening Impact Sockets

- 6 point and square openings combined
- Use with socket retainers below
- Industrial finish

BWD482 Dual Opening Socket.

- 1 1/2" hex, 13/16" square, 3/4" drive
- Hex opening depth is 5/8"; square opening depth is 2 1/4"; hex clearance is 1 1/4"
- 4" long

BWD483 Dual Opening Socket.

- Similar to BWD482 except 1" square drive

BWD412 Dual Opening Socket.

- 3/4" square drive with 41 mm hex and 21mm square beneath the hex
- Length: 108 mm

Application: For 1986 and later Nissan® and Isuzu® classes 4, 5, 6, and 7.

Stud Remover and Installer

BWS1316A Stud Remover (Blue-Point®).

- Use on 13/16" studs on Budd wheels

WSK755 Light Truck Wheel Stud Kit (Blue-Point).

- Use on most U.S. and import light trucks and SUVs
 - Self centering units permit quick installation the first time
 - Will not damage threads: use with impact wrenches
 - Clamshell container for storage
 - Includes 9/16"-18, 1/2"-20, 12 mm-1.75 and 14 mm-1.5 installers plus spacer and washer
- #### WSK938 Automotive Wheel Stud Kit.
- Use on most U.S. and import cars
 - Self centering units permit quick installation the first time
 - Will not damage threads: use with impact wrenches
 - Clamshell container for storage
 - Includes 7/16"-20, 1/2"-20, 12 mm-1.25 and 12 mm-1.5 installers plus spacer and washer

Impact Sockets

- Use with socket retainers listed below
- Industrial finish

Stock No.	Square Drive, inches	Wrench Size	Length
BW626A	3/4	13/16" square	4"
IM562	3/4	1 3/4" hex	2 3/4"
SIMM332	3/4	33 mm hex	82.6 mm
BW726A	1	13/16" square	2 1/4"
SIMML332	3/4	33 mm hex	152.4 mm
SIMML333	1	33 mm hex	152.4 mm

Impact Socket Retainers

3/4" Drive

IM182R Rubber Locking Ring.

- For all 3/4" drive units

IMR2 Socket Retainer.

1" Drive

IM243P Steel Locking Pin.

- For use with IM243R
- Fits IM35

IM243R Synthetic Rubber Locking Ring.

- For IM35, IM243 to IM443 and SIM223 to SIMM353

IMR3 Socket Retainer.

- For all 1" drive sockets
- 1 piece retention system holds socket to impact wrench anvil

Bead Breakers



TR200



BH102

TR200 Bead Breaker.

- For bus, truck or tractor tires
- Sliding hammer weighs 13 lbs
- Stroke length is 16"; overall length is 46" closed and 62" expanded

BH102 Hammer.

- 9 1/4 lb 32" long handle gives force and leverage for bead breaking on auto and large truck tires
- Rubber hand grip

BH102-1 Replacement Hammer Handle.

General Service Tools

Portable Air Tanks

AIRTANK10 10 Gallon

Portable Air Tank.

- 10 gal capacity provides ample air source to inflate tires
- Port to drain moisture from tank
- Easy to read heavy duty 160 psi gauge with 4' long (200 psi) hose to easily reach valve stems
- Popoff valve provides safety from over inflation
- Meets OSHA standard 1915.172
- Heavy 14 gauge steel construction with powder coat paint finish for long lasting durability
- Air line shutoff valve reduces air leakage when not in service
- Carrying handle provides easy portability

Applications:

Race pits and paddocks for dialing in tire pressure.
Tow trucks and shops that need mobility to inflate flat tires.
Car lots and garages where the compressed air line hose won't reach.



AIRTANK10



B2193

Carrier Assembly

Socket for Toyota®/Lexus® vehicles

B2193 Spare Tire Carrier Assembly Socket, 5 point for Toyota/Lexus.

- Tough nickel chrome plating provides corrosion resistance
- Special alloy steel provides the highest match of strength and durability
- Overall length: 4" long

Applications:

great time saver for PDI (Pre-Delivery Inspection) when selling a new vehicle and you want to check the air pressure of the spare tire.

Saves time when doing an oil change and the air pressure of the spare tire is checked as part of the service.



Rim

TR102

TR100

TR100 Rim Tool.

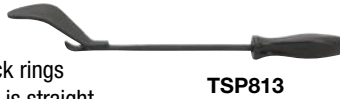
- Use on split rims and rim lock rings
- One end is angled; the other is straight
- 19 1/8" long with 9/16 and 5/8" wide ends

TR102 Rim Tool.

- For drop center rims
- 18" long with a 1 3/8" wide end

TSP813 Motorcycle Tire Spreader.

- Permits 1 person installation of tubed tires on street motorcycles, dirt bikes, small farm equipment and industrial equipment
- Easily access valve stem hole when installing 90° valve stems on tubed tires
- Screwdriver style handle for comfort and control
- All metal, heavy duty construction: industrial black finish helps resist corrosion
- Overall length: 23"



TSP813



S6129

YA105

Seal

S6129 Seal Puller.

- Designed to pull wheel bearing or other small seals
- 7" long: industrial finish

YA105 Seal Puller.

- For removing rubber seals
- 2 tips designed to reach in and fit nearly all seal applications
- 12 5/8" long

SRT1 Seal Removal Tool.

- Saves time and labor by eliminating prying against bearings or driving out seals
- rabs seal only, leaving bearings undamaged
- Seals remain intact allowing for complete failure analysis
- Wedges and long handle provide exceptional leverage
- Heavy duty construction for long life and dependability
- Works with steering, drive and trailer wheel seals on the largest heavy duty wheels



SRT1

Hubcap

HCH1A Hubcap Remover/Installer.

- Wide angled prying end for removing hubcaps and built-in mallet for replacement
- Comfortable, screwdriver style handle
- 16" long

HCH2 Center Hub Cap Remover (Blue-Point).

- Double ended prybar removes center hub caps on most chrome and aluminum wheels without damaging the wheel
- Tool ends dipped in PVC to protect wheel surface
- Works on both metal and plastic center hub caps



HCH1A



HCH2



GCP10

Dustcap

GCP10 Grease and Dust Cap Tool.

- Tapered jaws of tool fit behind the crimped edge of grease cap
- 1 handle designed for prying hub caps loose

Cotter Pin Pullers

388CF High Leverage Diagonal Cutters.

- High leverage cutter pulls cotter pins with ease
- 1 1/16" jaw length
- 8 5/16" long
- Vinyl grips



388CF

SGCP1BR Cotter Pin Puller.

- Heat treated shank provides maximum strength
- Soft grip handle: 10" long



SGCP1BR

S9094B Cotter Pin Puller.

- Pins removed by hitting anvil sharply
- Side handle ensures a firm grip
- 10" long
- Replaceable steel hook



S9094B

S9094A2X Replacement Hook and Rivet Set.

- For S9094B

CP9 Cotter Pin Pliers.

- 38° angle end pries cotter pin loose
- 105° angle end pulls it out
- 10" long



CP9



BF620C



BF623

Mallets (Blue-Point®)

BF620C Rubber Head Mallet.

- Solid rubber head is 3 3/4" long and 2 1/4" diameter
- 11" hardwood handle

- Ideal for replacing hubcaps, bodywork, etc.

BF623 Soft Blow Mallet.

- Designed to reduce marring and denting
- Use in assembly applications and on all types of surfaces including metal, glass, plastic and wood
- Special polymer head resists dynamic fatigue, creep and compression set, even at extreme temperatures

Truck Wheel Pan (Blue-Point)

TWP8 Truck Wheel Pan.

- Helps prevent messes and spills
- Fits rims with 13 3/4" inside diameter or larger for use on most large trucks and trailers
- Holds 88 oz of oil
- Pan will not warp if oil is warm
- Compartment above handles holds hub nuts



TWP8

Wheel Chocks (Blue-Point)

YA9020A Truck Wheel Chocks.

- Heavy duty truck chocks are connected by a 10' nylon rope and measure 8" wide and 8" high overall
- Nonslide design



YA9020A



WARNING



• Read safety precautions on pages W1 to W4

WHEEL ALIGNMENT

Ball Joint

Ball Joint Presses

BJP1 Master Ball Joint/Universal Joint Press Set.

Master ball joint press set covers 95% of current U.S. SUVs, light trucks and passenger cars. Applications: Ford® (43 models), GM® (53 models), Dodge®/Daimler-Chrysler® (54 models) and Jeep® (16 models) vehicles. Installs and removes ball joints with pre-fitted straight grease fittings. Press frame features large throat for increased ball joint applications and vise mount capability for U-joint applications. Locking cup design holds cup in place. Large, coarse thread pressure screw for extra strength and maximum force. Grease zerk fitting for smooth screw action. Includes full ball joint/universal joint application chart and storage/carrying case. Visit www.snapon.com for full information on all application guides.

BJP1F Press Frame.

• 7 13/16" throat opening; 3 1/2" depth; 6" height; 10 13/16" length

ME7A207 Retaining Ring.

• Retaining ring included in BJP1 and UJP1 sets

ME7A208A Large Snap Ring.

• Large snap ring included in BJP1 and UJP1 sets

ME7A209 Small Snap Ring.

• Small snap ring included in BJP1 and UJP1 sets

ME9A34 Steel Ball.

• Steel ball included in BJP1 and UJP1 sets

PAKPB061 Storage Case.

BJP1-18 Receiver Adaptor.

• Use with BJP1 for quick removal and installation of lower ball joints on *Dodge/Mercedes*® Sprinter van models from 2003 to 2007

• Tools required for lower ball joint removal/installation include: install ram (BJP1-11), install receiver (BJP1-13), removal ram (BJP1-6) and removal receiver (BJP1-18)

• No upper ball joint applications apply to this tool



BJP1

BJP1-18

BJP1-26

BJP1-27

BJP1HONDA

BJP1HONDA Adaptor Set for Honda® Vehicles.

• For removal and installation of upper/lower ball joints on many *Honda* and *Acura*® vehicles: must be used with BJP1 master ball joint/universal joint press set. Includes BJP1-22 and BJP1-24 ball joint adaptors plus (2 each) ME7A208 O-rings

BJP1-22 Adaptor.

• For removal and installation of upper/lower ball joints on many *Honda* and *Acura* vehicles: must be used with BJP1 master ball joint/universal joint press set

BJP1-24 Adaptor.

• For removal and installation of upper/lower ball joints on many *Honda* and *Acura* vehicles: must be used with BJP1 master ball joint/universal joint press set

BJP1-25 Receiver Adaptor.

• Use with the BJP1 master ball joint/universal joint press set for quick removal and installation of ball joints on Ford® F450 and F550 trucks from 2005 to 2007

BJP1-26 Adaptor.

• This new, optional adapter is to be used with the BJP1 Master Ball Joint/Universal Joint Press Set. Use BJP1-26 in combination with BJP1-4 to remove or install front axle U Joints for 2002 to present *Dodge Ram* 2500 and 3500 Series with the American 9.25 axle

BJP1-27 Adaptor.

• Adaptors required to work on the 1995 to 2008 *Ford Explorer*

• Lower Ball Joint:

Install ram BJP1-6 and BJP1-12,
Install receiver BJP1-16, Remove
ram BJP1-3, Remove receiver
BJP1-27



A204

S9365B

S9613

Ball Joint/ Tie Rod Separators

Stock No.	Jaw Opening, inches	Overall Length, inches
A204	5/8	12
A200	13/16	18
A201	1	12
A203	1 1/4	12

Stock No.	BJP1 Set Components	ID.-OD, inches	Length, inches
BJP1-1	Sleeve Adaptor	1 9/32 - 1 21/32	2 1/8
BJP1-2	Pressure Screw, 1 1/8 - 7 UNRC thread, 7/8 hex		9 3/4
BJP1-3	Pressure Pad (Ball Joint)	NA - 1 19/32	3 3/16
BJP1-4	Pressure Pad (Universal Joint)	NA - 7/8	3 3/16
BJP1-5	Adaptor	29/32 - 1 11/32	1 13/16
BJP1-6	Adaptor/Extension	1 1/4 - 1 21/32	2 1/16
BJP1-7	Adaptor	1 11/16 - 1 29/32	1 1/8
BJP1-8	Adaptor	1 25/32 - 2	1
BJP1-9	Adaptor, Front face angled 4.5	1 27/32 - 2	1 1/4
BJP1-10	Adaptor, Front face angled 4.5	2 11/32 - 2 21/32	2 1/8
BJP1-11	Adaptor	2 - 2 1/4	2 1/8
BJP1-12	Adaptor	2 1/4 - 2 1/2	2 3/4
BJP1-13	Adaptor	2 7/16 - 2 3/4	1 11/16
BJP1-14	Adaptor	2 11/16 - 2 15/16	2 3/4
BJP1-16	Adaptor	2 1/4 - 2 1/2	1 1/8
BJP1-17	Grease Fitting (for BJP1F Press Frame)	2 1/4 - 2 1/2	1 1/8

Ball Joint Sockets

S9365B Ball Joint Socket.

• For medium size *Chrysler* cars
• 3/4" square drive
• Wrench size is 1 59/64", length is 2"

S9479A Ball Joint Socket.

• For *Dodge/Chrysler* pickups and vans
• 3/4" square drive
• Wrench size is 2 9/64", length is 2"

S9613 Ball Joint Socket.

• Use on 4-5B axles such as found on *Dodge, Ford, Chevrolet*®, *GMC*® and *International*® 4 wheel drive trucks
• Adjusts the sleeve in the top of the yoke on the front suspension
• 1/2" square drive, 1" OD, 2 1/8" long

General Service Tools



General Service Tools

SIML160 6 Point Extra Deep Impact Socket.

- Use to remove or replace fuel tank retaining strap nuts
- Also has applications on emergency brake adjustment nuts and stabilizer retainers
- 1/2" square drive; 1/2", 6 point wrench opening
- 5" long

General Service Tools (Blue-Point®)

1658C Pinch Bar. 16" long.

2420A Pinch Bar. 20" long.

2430C Pinch Bar. Tapered point on one end and a chisel type edge on the other. 7/8" edge, 7/8" stock, 38" overall length.

YA7970 Hub Clamp Expander.

- Designed for hubs and clamping style struts and ball joint mounts
- Allows easy removal and installation of struts and ball joints
- Interchangeable spreaders prevent damage to aluminum or cast iron hubs
- Adjustable for use on hubs with centralized or noncentralized slot
- Allows for on the vehicle repair



1658C

YA7970

General Service Tools



TC90A



BF620C



GCP10

General Service Tools

TC90A Tail Pipe Cutter.

- Handles on the car cutting from 3/4 to 3 1/2" diameter
- 16 link cutter chain is 12" long
- Threaded shaft with cross piece provides elasticity to help prevent chain wheels from breaking
- Ideal for cutting the strut assembly to enable servicing of the strut cartridge

TC90A1 Chain Assembly.

- Includes 1 wheel and 1 roll pin

BF620C Rubber Head Mallet (Blue-Point®).

- Solid rubber head is 3 3/4" long, 2 1/4" diameter
- 11" hardwood handle
- Ideal for replacing hubcaps, bodywork, etc.

GCP10 Grease and Dust Cap Tool.

- Tapered jaws fit behind the crimped edge of grease cap
- One handle designed for prying hub caps loose

B240B Brake and Accelerator Pedal Jack (Blue-Point).

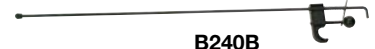
- Holds throttle at a constant RPM
- Easily adjusts to desired length
- Adjustment screw fine tunes desired RPM
- Rubber tip keeps the tool firmly positioned
- Overall length of 40" (102 cm)
- Can also be used as a pedal depressor

YA6510 Bushing Extractor (Blue-Point).

- Used on Acura® Integra (1994 to 2001) plus various Honda® vehicles (1988 to 2001)

YA6510-2 Bushing Extractor Adaptor (Blue-Point).

- Enables the YA6510 bushing extractor to be used on 1990 to 1993 Integra vehicles



B240B



YA6510

Shock Absorber Sockets

Stock No.	Square Drive, inches	Wrench Oval Width	Wrench Oval Diameter	Length
A137	3/8	1/4"	5/16"	29/32"
A138	3/8	15/64"	21/64"	29/32"
A139	3/8	6 mm	8 mm	23 mm

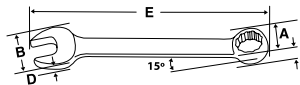


A137

Wrenches

Metric combination wrenches. Long handle design for access.

mm	Stock No.	A	B	C	D	E
17	OEMLM17B	25	35	11	8	298
18	OEMLM18B	27	37	12	8	314
19	OEMLM19B	28	39	12	9	330



OEMLM18B



CC6630

CC6630 Camber/Caster Alignment Tool.

- Works on 2003 and later M® " " Series Chevy® Express and MC® Savanna vans
- Eliminates need to use the front 21 mm eccentric bolt, which is difficult to access behind a steel shield
- Hook tool on the top "A" arm and, with locking nut loosened, push or pull for easy caster and camber adjustment
- Saves about 15 minutes per side

Caster Camber

Tie Rod



WA13A



WA17



YA2218

Tie Rod Adjusting Tools

WA12A Tie Rod Adjusting Tool.

- For large cars and light trucks
- 1/2" square drive: 3 3/4" long

WA13A Tie Rod Adjusting Tool.

- For compact and medium cars
- 1/2" square drive: 3 3/4" long

WA16 Tie Rod Adjusting Tool.

- For large trucks
- 1/2" square drive: 4 7/64" long

WA17 Tie Rod Adjusting Tool.

- Designed to permit 360° rotation of the adjusting sleeve even in tight quarters
- Use on 1 7/8" sleeves on full size 3/4 and 1 ton pickups, including Ford® Super Duty
- Use with 1/2" square drive ratchet or breaker bar
- Chrome finish: 4 3/4" long

YA2218 Tie Rod Adjusting Wrench.

- For U.S. and import vehicles with rack and pinion steering using tie rods with knurled or 17.0 to 18.5 mm hex gripping sections
- Spring loaded jaws and comfort grip handle



WARNING



- Do not use chrome or industrial finish hand tools with impact driver
- Read safety precautions on pages W1 to W4

WHEEL ALIGNMENT

Tie Rod



Tie Rod Adjusting Tools

YA2222 Tie Rod Adjusting Wrench.

- For U.S. and import vehicles with rack and pinion steering using tie rods with knurled or 12 mm hex gripping sections
- Spring loaded jaws and comfort grip handle
- 10 1/2" long

YA2223 Tie Rod Adjusting Wrench.

- For rack and pinion steering using 14 to 15.5 mm tie rods
- Spring loaded jaws and comfort grip handle
- Applications: 1995 and later Dodge® Dakota and Caravan, 1998 and later Dodge Durango, Dodge Viper and most 1999 and later M® 1/2, 3/4 and 1 ton trucks

WW600 Heavy Duty Rack Wrench (Blue-Point®).

- New larger size provides added coverage for U.S. and import trucks and SUVs
- Suits multiple rack ends and sizes (hex drive, round with 2 flats, round with no flats)
- Fixed position rings provide added strength
- Patented cam design increases force as load is applied
- Universal design suits rack end diameters from 38 to 46 mm (1 1/2 to 1 7/8")
- Use on vehicles with limited access to avoid the need to remove the rack assembly
- WW600 expands upon the already available WW500 which does 33 mm to 41 mm (1 5/16 to 1 9/16") tie rods

Tie Rod Removal/Installation Tools

YA3000C Inner Tie Rod Tool (Blue-Point).

- Removable crowfoot adaptors are placed on hex of tie rod
- Engages crowfoot for removal or installation of tie rod
- Includes crowfoot adaptors in 1 3/16, 1 1/4, 1 5/16, 1 7/16, 1 1/2" and 33.6 mm sizes

WA14A Tie Rod End Socket.

- For removing tie rod ends
- Fits most cars and some trucks
- U-shaped opening measures 1 3/8" x 3/4"
- Use with 1/2" square drive handles. 1 15/16" ID, 2 1/4" long

WA15 Tie Rod End Socket.

- Similar to WA14A
- For tie rod servicing on most any truck in the Class 2 to 6 range
- U-shaped opening measures 1 7/8 x 15/16"
- Use with 1/2" square drive handles. 2 1/2" ID, 2 7/8" long

WA800 Heavy Duty Truck Tie Rod Socket.

- Use on most Class 7 and 8 heavy duty trucks with 9,000 to 20,000 lb axles
- U-shaped slot measures 1 7/8 x 1 1/2"
- Inside diameter 3"
- Overall length 3 1/2"

ITRS22 Tie Rod Bushing Socket (Blue-Point).

- Use to access the inner tie rod bushings on Chrysler LHS/Concorde and Dodge 300M/Intrepid featuring the LH body style
- Low profile design provides easy access to install or remove the 7/8" or 22 mm hex head bolts
- A conventional socket cannot be used in this application

YA3300 Universal Tie Rod Set (Blue-Point).

- A faster, easier and more secure way to replace tie rods
- Quick on/off interchange between the two knuckles
- Easy self adjusting and cinching in various shapes and sizes
- No more guesswork or fuss with crowfeet style tools

YA3300-1 Large Head. Large head (40 to 45 mm) for YA3300 Universal Tie Rod Set.

YA3300-2 Medium Head. Medium head (35 to 40 mm) for YA3300 Universal Tie Rod Set.

YA3300-3 Tube. Tube for YA3300 Universal Tie Rod Set.

YA3300-CASE Blow Molded Case. Blow molded storage case for YA3300 Universal Tie Rod Set.

YA2224 Tie Rod Adjusting Wrench.

- Similar in design to YA2222 but for 10.5 to 12 mm diameter tie rods like those found on Ford® Escort, M® eo, and smaller Nissan® vehicles with rack and pinion steering
- Spring loaded jaws and comfort grip handles
- 9 1/2" long

YA3500 Universal Inner Tie Rod Wrench (Blue-Point).

- Removes inner tie rods equipped with completely round end sockets or flats
- Designed to remove and install all inner tie rod sockets up to 1 15/32"
- Wrench head has 3 set screws that tighten against the socket
- Includes 1/4" short head hex wrench
- Lifetime warranty

WW500 Rack Wrench (Blue-Point).

- Use on steering racks to service inner tie rod ends
- Fits rack end with hex drive, round with 2 drive flats or round with no drive flats
- Universal fit from 33 to 41 mm (1 15/16 to 1 9/16") and hex sizes from 31 to 35 mm (1 1/4 to 1 3/8"), 19 mm (3/4") hex drive
- Clamp force increases as load is applied

YA6870 Rear Toe Adjustment Kit for Subaru® Vehicles.

- Includes 2 wrenches: each 16" long for extra reach
 - YA6870-1: 6 point, 22 mm wrench with the correct 0 offset to securely hold the cam bolt
 - YA6870-2: 6 point, 17/19 mm dual ended wrench designed to meet the high torque levels required when loosening/tightening the cam bolt retaining nut
 - Used on all Subaru vehicles 1990 and later
 - YA6870-1 fits Subaru vehicles 1990 and later: YA6870-2 fits 1990-2008 Subaru vehicles (17 mm) and 2009 and later (19 mm)
 - High quality steel is specially heat treated for torque requirements
- ### YA6870-1 Toe Adjustment Wrench for Subaru.
- Cam bolt wrench for Subaru
 - YA6870-1 fits Subaru vehicles 1990 and later
- ### YA6870-2 Toe Adjustment Wrench for Subaru.
- Cam bolt retaining nut wrench for Subaru
 - YA6870-2 fits 1990-2008 Subaru vehicles (17 mm) and 2009 and later (19 mm)



MacPherson/Coil Spring Compressors

WA92 Coil Spring Compressor.

- Holds coil spring at desired tension for removal of other parts
- 11" screw
- Liberally lubricate threads with anti seize compound

MSC1 Master MacPherson Strut Tool (Blue-Point®).

- Designed to quickly and easily compress most MacPherson strut springs
- Compresses up to 5/8" coil diameter
- Broad spring contact for stable compression
- ACME® threaded rod and built in detent latches to help lock coil in place
- Forged construction for strength and durability

MSC2 Coil Spring Compressor (Blue-Point).

- Removes and installs coil springs quickly and safely
- Compresses coil springs on all passenger cars and pickup trucks
- Features ACME threaded rod
- Includes instructional card

MSCS1000 Master Spring Compressor Set.

- Includes MSC1 and MSC2 in storage case



LCAT1A

Lower Control Arm Tool (Blue-Point)

LCAT1A Lower Control Arm Tool.

- 1 man operation performs the job faster and easier
- Makes strut replacement easier and removes ball joints without damage



YA8730

Strut Nut Socket for VW®/Audi® Vehicles

YA8730 Strut Nut Socket for VW/Audi Vehicles.

- For late model front wheel drive vehicles to remove the top strut retaining nut

Strut Tools for Ford® and GM® Vehicles

YA9260 Front Strut Cartridge Tool Set for GM Vehicle.

- Removes and installs front oil or gas filled strut cartridge on 1988 and later GM W-platform vehicles
- Works on both manufacturer's stock oil filled shocks and gas filled aftermarket shocks

YA9260-1 Strut Cartridge Nut Wrench.

- Strut cartridge nut wrench from YA9260 set

YA9260-2 Strut Jounce Bumper Wrench.

- Strut jounce bumper wrench from YA9260 set

WA7500 Strut Cartridge Tool for GM Vehicles.

- Replaces strut cartridge through the body shock tower on GM 10 Series ("W" Car) vehicles
- Includes 1988 and later Pontiac® Grand Prix, Oldsmobile® Cutlass and Buick® Regal; 1989 and later Chevrolet® Lumina



YA6810

Bushing Tool (Blue-Point) for Honda®/Acura® Vehicles

YA6810 Bushing Tool Kit for Honda/Acura Vehicles.

- Used in removing and installing Honda and Acura lower control arm bushings without the need of a press

Applications:

Honda:

- Civic 2001 to 2005
- CRV 2002 to 2006
- Element 2003 to 2006
- Pilot 2003 and later
- Odyssey 2005 and later
- Ridgeline 2006 and later
- Accord 2003 to 2007

Acura:

- MDX 2000 to 2006
- TL 2000 to 2007



WARNING



- Do not use chrome or industrial finish hand tools with impact driver
- Make sure spring compressor is properly engaged with spring before applying force
- Read safety precautions on pages W1 to W4

WHEEL/AXLE PULLERS AND DRIVE LINE

King Pin Pullers



CG430HYC

20 Ton Capacity Hydraulic

CG430HYC Hydraulic King Pin Press Set.

- C 420A hydraulic ram and pump delivers up to 20 ton of controlled power to remove stubborn king pins on large vehicles with king pin diameters up to 1 1/4"
- Also removes brake shoe anchor pins on trucks
- Wide side arm construction
- Uses 3 pilots: 7/8 x 4", 7/8 x 6", and 7/8 x 8"
- Includes 2 guide bushings: 1 3/8 x 7/8" and 1 3/8 x 3 1/4"

CG430HYC2S Hydraulic King Pin Press Set.

- C 430HYC Set with C 420A2S ram and 2 stage pump

35 Ton Capacity Hydraulic

CG730HY Hydraulic King Pin Press.

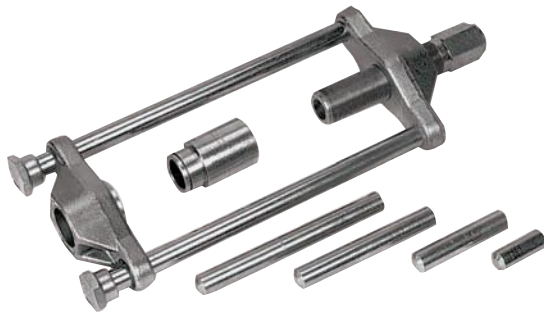
- For use on large trucks and semitrucks with king pin diameters from 1 to 2"
- Similar to C 430HYC except it uses 35 ton hydraulic power components (C 720 ram, C 420-2A pump, C 420-3-1 hose, and C 420-4 quick coupler)
- Includes 3 guide bushings and 7 pilots

CG730HY2S King Pin Press Set.

- C 730HY Set with C 420A2S ram and 2 stage pump

CG730 King Pin Press Set.

- C 730HY Set less the hydraulic power components



CG230A

Manual Set for 3/4 and 1 Ton

CG230A Truck King Pin Press Set.

- Spread 5 1/8"; Reach 12 3/16"
- Includes: 1 1/4" bushing guide, adaptor and 4 7/8" diameter pilots 2, 4, 6 and 8"

Applications:

Heavy trucks, buses and vans having king pins larger than 7/8", including Ford® 3/4 ton and 1 ton trucks and vans.

Set Components

Stock No.	Pressure Screw	Yoke Adaptor	Work Head	Yoke Post (2)	Post Nut (2)	Pilot Guide	1 3/8 x 7/8" Bushing	1 3/8 x 3 1/4" Bushing	Expansion Plug	Hydraulic Power Pack	7/8" Diameter Pilots
CG430HYC	CG430-1	CG430-2	CG430-3	CG430-4	CG45-2	CG430-6	CG430-7	CG430-8	CJ91-2A	CG420A	CG230-9 (6") CG230-8 (4") CG230-10 (8")

CG430HYC2S C 430HYC set with C 420A2S ram and 2 stage pump.

Stock No.	Pressure Screw	Yoke Adaptor	Work Head	Yoke Post (2)	Pilot Guide	Post Nut (2)	1 15/16" Bushing	1 9/16" Bushing	1 13/16" Bushing	Hydraulic Power Pack	Pilots
CG730HY	CG730-1	CG730-2	CG730-3	CG730-4	CG730-6	CG750-7	CG730-7	CG730-8	CG730-9	CG420A	CG730-12 (6 3/4") CG730-10 (2 1/4") CG730-11 (4 1/2") CG730-15 (6") CG730-13 (9") CG730-16 (9 1/2") CG730-14 (11 1/4")

CG730HY2S C 730HY set with C 420A2S ram and 2 stage pump.

Stock No.	Spread, inches	Reach, inches	Pressure Screw	Screw Yoke	Screw Yoke Post (2)	Post Nut (2)	General Use Head	1 1/4" Bushing	1" Bushing	Pilots
CG212A	3	6 1/2	CG21A	CG21B	CG21D	CG21J	CG21P5	CG21P3	CG21P2	CG21E Long (3/4" dia.) CG21F Short (3/4" dia.) CG21G Long (5/8" dia.)

Stock No.	Spread, inches	Reach, inches	Pressure Screw	Screw Yoke	Screw Yoke Post (2)	Post Nut (2)	General Use Head	1 1/4" Bushing	7/8" Diameter Pilots	Adaptor
CG230A	5 1/8	12 3/16	CG230-1	CG230-2	CG230-4	CG230-5	CG230-3	CG230-6	CG230-9 (6") CG230-7 (2") CG230-8 (4") CG230-10 (8")	CG230-11

Wheel/Axle Pullers

Wheel Hub Removal Adaptor

DHP1 Wheel Hub Removal Adaptor for Dodge® Vehicles.

- Designed to remove the front hubs found on 3/4 ton (2500 series) and 1 ton (3500 series) Dodge pickup trucks
- Cut the flat rate for changing out U joints, front differential service, ball joints and any front hub service
- On average it takes 3.4 hours to do both sides using a sledge hammer, torch or heavy duty slide hammer. With the DHP1, it takes about 1 hour to do both sides
- No broken rotors when using a sledge hammer
- No heavy slide hammers to use
- Wheel bearing and seal will not get damaged

FHP1 Wheel Hub Removal Adaptor for Ford® Vehicles.

- Designed to take off the front hubs found on the F250 and F350 series Ford pickup trucks
- Cut the flat rate for changing out U joints, front differential service, ball joints and any front hub service
- Soft insert of socket will not damage the studs



DHP1



CJ129A

YA498A

4567SH

Pullers

CJ129A Universal Wheel Hub Puller.

- Remove front wheel/axle assembly on all front wheel drive Ford, GM®, Chrysler®, and most imported cars
- Also use to remove rear brake drums on tapered axles such as those found on AMC® and Chrysler vehicles
- Removable anvil fits over 1 1/8" hex on pressure screw
- Includes adjustable legs

YA498A Front Wheel Drive Hub Puller.

- For most U.S. and import vehicles with independent front suspension
- Pressure screw size is 5/8" - 18 x 5 1/2"

4567SH Bolt-on Axle Shaft Puller.

- Breaks axles loose on Ford and GM vehicles and light trucks with flange type axles
- Includes housing, 3 removable jaws, 10 lb slide hammer and 1 1/2"-12 x 23 1/2" slide screw with a 1 1/2" hex
- Fits any bolt pattern with a 4 to 7" bolt circle

Slide Hammer and Shaft

CJ1250 12 lb Slide Hammer.

- Designed to pull rear axles
- Slide hammer is approximately 25 1/4" long with a 5/8"-18 thread
- Can be used with the YA498A hub puller



CJ1250

Differential



A176



M3548A



M3586



M3587



IMDM360

Differential Service Tools

A176 Differential Adjusting Wrench.

- For most differentials where 9/32 and 17/32" adjustment nuts are found
- Useful on transmissions, steering gears and some water pumps where adjustable spanner wrench is required
- 10" long

M3548A Diesel Pinion Nut Impact Socket.

- Use on pinion nuts only

M3586 Pinion Nut Impact Socket.

- Use to remove pinion nut on Dana® 80 series axles on late model Ford and Dodge trucks
- Designed to handle the specific application
- Flank Drive® wrenching system
- Industrial finish for extra corrosion protection

M3587 Pinion Nut Impact Socket.

- Use to remove pinion nut on 2005 Cadillac® CTS, 2003 GM and 2004 Dodge trucks with 11.5" AAM axles
- Additional applications: removal of late model BMW® axle shafts plus BMW E38, E39, M3 and SUVs with 36 mm 12 point axle nuts
- Designed to handle the specific application
- Flank Drive wrenching system
- Wrench size: 36 mm. Drive size: 3/4". OD Wrench end: 2". OD Drive end: 1 3/4". Bolt clearance: 1 9/16". Hex depth: 1". Overall length: 2 1/4"
- Industrial finish for extra corrosion protection

IMDM360 Impact Socket.

Applications:

Duramax® diesel front crankshaft bolt. Late model BMW axle shafts. Use to remove pinion nuts on 2003 GM and 2004 Dodge trucks with 11.5 AAM® axles.

Stock No.	Wrench Size, inches, (mm)	Drive Size, inches	OD Wrench End, inches, (mm)	OD Drive End, inches, (mm)	Bolt Clearance, inches, (mm)	Hex Depth, inches, (mm)	Overall Length, inches, (mm)
M3548A	2 3/4	3/4	1 9/16	2 3/8	2 3/4	1 9/16	3 3/4
M3586	1 7/8	3/4	2 3/8	1 3/4	2	1 1/8	2 3/4
M3587	(36)	3/4	2	1 3/4	1 9/16	1	2 1/4
IMDM360	(36)	1/2	(50.8)	(46)	(41.3)	(22.2)	(57.2)



WARNING



- Screen puller and press applications
- Read safety precautions on pages W1 to W4

DRIVE LINE

Transmission



YA3050



YA3085



CVBOOTRP



YA3080



KD3191



FBG1



CVBOOTKIT

Boot and Joint Tools

YA3050 Boot Clamp Pliers.

- For earless type clamps, including those found on late model GM® inboard CV universal joints

YA3080 Boot Clamp Pliers.

- For ear type clamps
- Sturdy enough for ear type clamps, including late model GM outboard CV universal joints
- Use with a torque wrench to meet required specifications

YA3085 Boot Banding Tool.

- For reinstallation of Band-it® or Band-it Jr.® boot bands

KD3191 Joint Clamp (Blue-Point®).

- Use to wind up the free end of the clamping band
- Holds tension until band can be clipped down
- For use with *Band-it* style free end clamps, roll band, and clips or *Band-it Jr.* style preformed clamps
- Socket with ratchet is used to turn the actuating screw for adjustment

FBG1 Flex CV Boot Installer (Blue-Point).

- Reduce CV boot installation to less than 20 minutes
- Tool stretches the CV boot, allowing it to slip over the trunion for rapid installation and reduced fatigue
- Includes flex boot installer, FB AR air regulator and storage case
- Use CV boots listed on this page

Boot and Joint Tools (Blue-Point)

FBGAR Air Regulator.

- Air regulator for FB 1 flex CV boot installer

CVBOOTKIT Complete CV Boot Replacement Kit.

- 6 each CVBOOTSM
- 4 each CVBOOTL
- 2 each CVBOOTRP

CVBOOTXS ATV Replacement Boot.

- Fits most ATV boot applications
- Includes boot, clamps and grease

CVBOOTXSPK ATV Replacement Boot Kit.

- Package of 12 CVBOOTXS

CVBOOTLG Large CV Boot.

- Fits most cars and SUVs with large CV boots
- Includes boot, clamps and grease

CVBOOTLGPK Large CV Boot Kit.

- Package of 12 CVBOOTL

CVBOOTSM Small CV.

- Fits most cars and SUVs with small CV boots
- Includes boot, clamps and grease

CVBOOTKSMPPK Small CV Boot Kit.

- Package of 12 CVBOOTSM

CVBOOTRP Universal Rack and Pinion Kit.

- Fits rack and pinion boots on most cars
- Includes boot, clamps and grease

CVBOOTRPPK Universal Rack and Pinion Boot Kit.

- Package of 12 CVBOOTRP
- Includes boot, clamps and grease



HST100-1



FABLM8E



YA2220

Half Shaft Removal Tools

HST100-1 Half Shaft Removal Tool.

- 0.900" diameter
- Easily removes half shaft on most U.S. and import front wheel drive vehicles with gentle tap from brass mallet

HST100-2 Half Shaft Removal Tool.

- 0.940" diameter
- Easily removes half shaft on most U.S. and import front wheel drive vehicles with gentle tap from brass mallet

Front Wheel Drive Service Tools

FABLM8E Metric Long Ball Hex Driver.

- 8 mm hex, 3/8" drive
- For 1978 and later Dodge® Omni and Plymouth® Horizon standard transmission drive axle flange bolts

Spindle Puller

YA2220 Spindle Puller.

- 3 step threaded (1 1/2, 1 5/8, and 2") for most front spindles on 4 wheel drive vehicles
- Use with 1/2"-20 and 5/8"-18 slide hammers



YA321



YA2340



YA7244A



YA322



EEPV508



XLE1012A



S5902



SLEPL200



FIH9057B



LDT3812



LDTM3812

Transmission Service Tools

YA321 Sealing Cap Set (Blue-Point®).

- 5 polyethylene caps to service all U.S. and most import transmissions when the drive shaft is removed
- Caps keep dirt out of the transmission and prevent fluid loss

YA2340 Sealing Cap Set.

- Retain transmission fluid by sealing transmission and transaxles when drive shaft or drive axle is removed on most U.S. and import vehicles
- Side gear centering for Ford® transaxles
- 5 caps cover a range of 1 to 2 3/16"
- Segmented design prevents caps from slipping

YA7244A Quick Connect/Disconnect Tool.

- For late model Ford vehicles using push lock connectors on transmission cooler lines as well as on fuel lines
- Diameter is 1 1/4"

XLE1012A Torx® Box Wrench.

- Box end Torx sizes are E10 and E12
- Drive shaft must be removed when towing 1980 Chevrolet® Corvette and 1/2, 3/4 and 1 ton MC® and Chevrolet trucks
- Designed to access drive line fasteners
- Also services AMC® drive lines

S5902 Oil/Transmission Plug Wrench.

- Box ends are 17 mm, 6 point and 21 mm, 12 point
- Designed for VW® transmission drain plugs
- 258 mm long

YA322 Seal Driver Kit (Blue-Point®).

- 15 different drivers install front and rear transmission seals
- Includes a master driver
- Each driver is numbered for specific transmission applications

EEPV508 Automatic Transmission Pressure Gauge Set.

- Use on all major manufacturer U.S. and import vehicles
- Includes: 2 gauge assemblies for high and low pressure ranges, 9 adaptors to test a wide variety of U.S. and import automatic transmissions, comprehensive instruction manual with applications table and storage case
- 4 special fittings are also included for connection to hard to reach test ports in areas requiring a 45 or 90 angle
- High pressure gauge assembly includes 3.5" diameter gauge and 10' flexible hose with fluid coupler
- Low pressure gauge assembly includes 2.5" diameter gauge and 6' flexible hose with fluid coupler

SLEPL200 Low Profile Torx Plus® Socket.

- For removal and installation of low profile drive plate and flywheel bolts on QR25 Nissan® motors with automatic transmissions
- Similar to the J-45816 Nissan specialty tool
- Size is 20EPL
- 1/2" drive
- For flywheel bolts on QR25 Nissan motors with manual transmissions, use the 3/8" drive FTX50TPE male T50 Torx Plus Socket

LDT3812 Transmission Oil Cooler Line Disconnect Tool.

- 2 sizes (3/8" and 1/2") designed to disconnect transmission cooler lines
- Use 3/8" size for 2003 and later Ford V8 Explorer plus 2004 and later Ford F150 and Cadillac® vehicles
- Use 1/2" size for Ford F250, F350 and F450 Super Duty trucks

LDTM3812 Camshaft Seal Kit.

- Easily removes and installs camshaft and crankshaft seals without damage
- Compact puller with unique extracting hooks engage seal for quick removal
- Interchangeable sleeves and mandrels allow easy installation of new seal
- Fits seals from 21.5 to 64 mm

FIH9057B Transmission Line Quick Disconnect Tool.

- For 3/8 and 1/2" O.D. transmission and fuel lines on certain Ford and Cadillac models
- Constructed from durable 30% glass filled nylon allows more pressure to be applied and delivers a longer tool life
- Compact design allows access in tight quarters

Applications:

Ford: Explorer (2002 and later with 5 speed automatic transmission), F150 trucks (2003 late production series with four speed automatic transmission), F150 trucks (2004 and later - all models), Thunderbird and Lincoln® LS (2003 and later), F250/F350 truck series (2004 and later)
 Cadillac: SRX (2004 and later), CTS (2003 and later), STS (2005 and later)



WARNING



• Read safety precautions on pages W1 to W4

DRIVE LINE

Transmission



207FHRM

Low Profile Hex Sockets

Stock No.	Drive Size, inches	External Hex, mm	Length, inches (mm)
FHRM7	3/8	7	1 (25.4)
FHRM8	3/8	8	1 (25.4)
FHRM10	3/8	10	1 (25.4)
FHRM12	3/8	12	1 (25.4)
FHRM13	3/8	13	1 (25.4)
FHRM14	3/8	14	1 (25.4)
CPT110A	3/8	17	1 (25.4)

207FHRM Low Profile Socket Set. Includes FHRM7 through FHRM14 (7 to 14 mm) plus CPT110A (17 mm) Low Profile Hex Sockets (7 pcs).

Snap Ring Pliers

SRP400A Snap Ring Pliers Set.

- Includes the following 4 snap ring pliers in a storage tray

SRP1B Snap Ring Pliers.

- For output shaft on GM® transmissions
- Serrated jaws bent at a 90° angle
- 1/16" wide tip; Measures 8 15/16" long

SRP2A Snap Ring Pliers.

- 3/32" wide ends with 1/8" diameter
- Jaws are angled at 90° dimple for snap rings with tabs
- 8 7/8" long

ASME®/ANSI® B107.19-1993

SRP3A Snap Ring Pliers.

- 3/32" wide straight tips and 1/16" thick ends
- 8 7/8" long

ASME/ANSI B107.19-1993

SRP5B Snap Ring Pliers.

- 7 rivet action for high leverage tip expansion
- Straight tip ends, 5/32" wide, are dimpled for snap ring tabs
- 10 1/8" long

SRP4 Snap Ring Pliers.

- 3/32" wide ends with 1/8" diameter dimple for snap rings with tabs
- Jaws bent at a 90° angle
- 14" long

PRT600A Transmission Service Set.

- For Chrysler®, GM and Ford® vehicles
- Includes:

PRT21 High Range Seal Tool.

- 2 1/2 x 1/2" spring steel blade
- 7 1/2" long

PRT22 High Range Seal Tool.

- .015" high carbon wire loops on each end
- 6 1/2" long

SRPC3800 Convertible Retaining Ring Pliers.

- Straight .038" tips
- 6 7/16" long

SRPC7000 Convertible Retaining Ring Pliers.

- Straight .007" tips
- 7 7/16" long

PR15 External Snap Ring Pliers.

- Wide (1/16") tips are angled at 90°
- 8 3/4" long

PR16 External Snap Ring Pliers.

- Wide (3/16") notched tips
- 8 3/4" long



SRP400A



SRP4



PRT600A



CPT110A

Transmission Service Tools

CPT110A Drain Plug Socket.

- Use on VW® transmission drain plugs
- Additional applications include removing front wheels on Triumph® Daytona® and America® motorcycles
- 17 mm, 6 point socket is for VW transmission drain plugs
- 3/8" drive, 1" long



S8673C1



S8673B3

Bushing/Oil Seal Pullers and Driver

- Designed to easily remove or replace transmission rear extension housing bushings and oil seals on most Ford, GM, Chrysler and AMC® automatic transmissions

- Refer to chart below for specifications and applications

S8673C1 Bushing Driver.

- Handle screws onto one end; bushing is placed on the other end and driven into shaft housing with a few light hammer blows

S8673B3 Oil Seal Installer.

- Slide onto the driver head
- Use to replace oil seals
- Reversible

Stock No.	Type	O.D., inches	Depth, inches	Application
S8673C1	Driver		1 15/16	Ford C-4 Series, GM 200, 350, and 375 Series
S8673B3	Seal Installer	2 3/4	1 15/16	Ford C-4 Series, GM 200, 350, and 375 Series



CJ193



CJ193-1-1

Transmission Pump Puller

CJ193 Transmission Pump Puller.

- Removal of front pump on GM, Ford and Chrysler transmissions requires 2 pullers
- Includes 1 1/4 lb slide hammer and 3/8"-16 x 14" slide screw

Applications:

- Most GM, Ford C-4, C-5 AOD (Automatic Overdrive), and Chrysler TF904-72 ON.

CJ193-1-1 Optional Adaptor.

- M10-1.5 male end is designed to work on Ford and Chrysler transmission pumps
- 3/8"-16 female end screws onto slide screw of CJ193
- 2 1/4" long



YA9348



YA9648

Seal/Bushing Installers and Removers

YA9348 Transmission Seal Remover/Installer for GM vehicles.

- Removes and installs GM transmission shift selector shaft seals without draining the fluid
- 5/8" drive size, 3/8"-16 UNC-2B thread
- Remover bolt has a 9/16" head and 3/8"-16 UNC-2A thread

YA9648 Removal/Installation Tool.

- Applications on 1996 and later GM trucks and Astro vans with 4L60E and 4L80E transmissions

Magnetic Angle Locator (Blue-Point®)

YA328A Angle Locator.

- Precise, accurate tool to determine angle measurements
- Ideal for checking drive shaft angle
- Red degree indicator located behind numbers for exact reading
- Fractional and metric scales molded into base of tool in 1/8" and CM
- Large 1 7/8 x 7/8" magnet in base for secure retention



YA328A

Universal Joint Tools

UJP1 Universal Joint Press Set. Press frame features large throat and vise mount capability for U-joint applications. Locking cup design holds cup in place. Large, coarse thread pressure screw for extra strength and maximum force. Rease Zerk fitting for smooth screw action. Adaptor hardness of 42-46 Rc. Includes application chart. Includes storage case.

BJP1F Press Frame. 7.80" throat, 10.80" length.

BJP1-1 Sleeve Adaptor. 2.12" length.

BJP1-2 Pressure Screw. 1 1/8-7 UNRC, 7/8" hex.

BJP1-4 Pressure Pad. Universal Joint, 3 3/16" length.

BJP1-5 Adaptor. .90-1.33

BJP1-7 Adaptor. 1.68-1.89

BJP1-8 Adaptor. 1.78-2.00

BJP1-17 Grease Fitting.

ME7A207 Retaining Ring.

ME7A208 Large Snap Ring.

ME7A209 Small Snap Ring.

ME9A34 Steel Ball.

PAKPB061 Storage Case.



UJP1

Clutch



GA454A



SP2031



YA7646



A144A



ATS2987



A37M



A145

Clutch Service Tools

GA454A Adjusting Wrench for Spicer® Clutch.

- For internal adjustment of Spicer angle spring and multiple lever clutches
- Eliminates the need for prybars that could damage clutch parts
- 15" long

SP2031 Pilot Bearing Puller.

- Attaches to slide hammer shafts with 3/4"-16 or 5/8"-18 threads
- Pressure screw adaptor is made of stress resistant steel
- Industrial finish

YA7646 Clutch Coupling Tool for Ford® Vehicles.

- Reach and disconnect the hydraulic clutch line from the clutch slave cylinder without damage to the coupling or clutch line
- Same as Ford No. T88T-70522-A

Applications:

Current Ford vehicles with hydraulic clutch including light duty trucks, Bronco II, Ranger, Explorer and 1989- later Thunderbird and Mercury® Cougar with manual transmission and hydraulic clutch

A144A Flywheel Turner.

- Use when replacing clutch pressure plate
- Turns flywheel to predetermined point that might be bypassed when "bumping" with starter
- 12 1/8" long

ATS2987 Automatic Transmission Clutch Spring Compressor (Blue-Point).

- Use to compress clutch springs on most automatic transmission clutch units
- Packaged in ATS2987-21 storage case

A37M Clutch Aligner Set.

- For vehicles with standard transmissions, including many import cars
- Allows quick aligning for complete range of single disc clutches (16 collet sizes ranging from 0.465 to 1.181")
- Packaged in PB21 storage case

A145 Clutch Aligner Set.

- Smaller companion to A37M
- Includes 5 double ended collets ranging in size from .578 to .810"

Jacks

YA1715 Motorcycle Jack (Blue-Point).

- 1,500 lb capacity
- Low height of 4 1/2", maximum height of 14 3/4"
- Double rubber lined pad provides extra protection to motorcycle
- Pull handle assists user to maneuver jack into position
- 1' operation for ease of use
- Safety straps to secure motorcycle



YA1715



WARNING



• Read safety precautions on pages W1 to W4

LIFTING

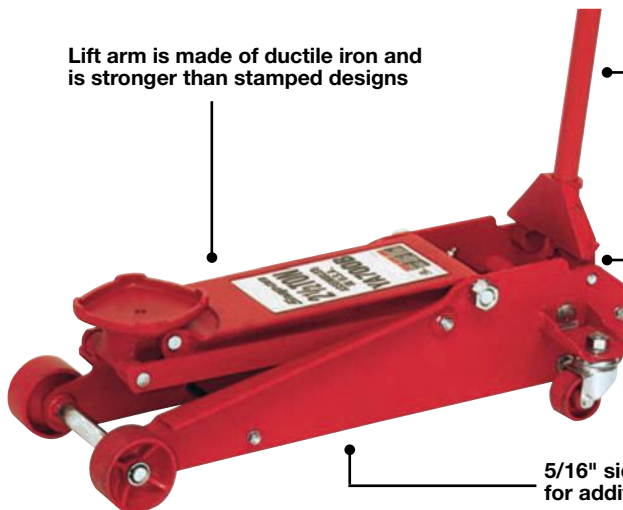
Jacks



YA642D



YA1707



Lift arm is made of ductile iron and is stronger than stamped designs

One piece handle with universal release mechanism

Fast acting pump brings saddle to service height quickly

5/16" side plates are flanged for additional strength

YA700B



YA1716

Short Chassis Service Jacks

Stock No.	Capacity, tons	Max Lift Height, inches	Low Height, inches	Saddle Size, inches	Frame Length, inches	Handle Length, inches	Warranty	Weight, lbs
YA700B	2 1/2	23	4 3/4	5 3/4	30 1/2	45 3/4	2 Years	96
YA642D*	2	20	3 3/4	5 1/2	29 3/4	49 7/8	1 Year	95
YA1707*	3 1/2	21 5/8	4	4 1/4	29 7/8	50	1 Year	103
YA1716*	2	20	3	4 1/4	30 1/4	40	1 Year	97

*Blue-Point®

Aluminum Service Jacks



YA1713



RACEJACKSET



YA786

Aluminum Service Jacks (Blue-Point)

- Dual pump design quickly brings saddle to service height
- Diamond cut, slip resistant handle with foam bumper pad protects vehicles

Stock No.	Capacity, tons	Max Lift Height, inches	Low Height, inches	Saddle Size, inches	Frame Length, inches	Handle Length, inches	Warranty	Weight, lbs
YA1713	3	18 1/4	4	5	30	49 1/2	1 Year	72
RACEJACKSET*	1 1/2	17 3/8	3 1/2	5	25 1/8	47 1/2	1 Year	46
YA786	2	17 1/2	3 1/2	5	25 1/2	48 1/16	1 Year	45

* Includes ALUMSTAND on P. 510

Jacks (Blue-Point®)



YA657C
YA667C



YA660C
YA662C

Long Chassis Service Jacks

- YA667C and YA662C feature an air actuated pump to raise lift arm quickly
- Hydraulic pump mechanism is operated by handle or foot pedal pump
- Knob style load release in handle end for precise control
- T-handle provides additional positioning assistance

Stock No.	Type	Capacity, tons	Max Lift Height, inches	Low Height, inches	Saddle Size, inches	Frame Length, inches	Handle Length, inches	Minimum Operating Pressure, psi	Warranty	Weight, lbs
YA657C	Hydraulic	4	24	5	5 1/2	50 5/8	42 1/8		1 Year	156
YA667C	Air/Hydraulic	4	24	5	5 1/2	50 5/8	42 1/8	140	1 Year	159
YA660C	Hydraulic	10	27	7	7 3/8	54 3/4	42 1/8		1 Year	427
YA662C	Air/Hydraulic	10	27	7	7 3/8	54 3/4	42 1/8	140	1 Year	441



YA731B



YA1731A

Air Operated Truck Jacks

- Air operated lifting mechanism for ease of operations
- Adjustable extension screw raises saddle height
- Uses standard shop air supply (110 to 175 psi)
- Rubber wheels allow ease in positioning

Stock No.	Capacity, tons	Low Height, inches	Maximum Lift Height, inches	Power Raise, inches	Screw Extension, inches	Handle Length, inches	Base Size, inches	Minimum psi (for rated load)	Weight, lbs
YA1731A	22	9 7/8	20 1/4	6 3/8	4	48 3/4	22 7/8 x 12 1/2	150	78
YA731B	20	9 3/8	17 5/8	5 1/2	2 3/4	39 1/2	8 x 5 1/2	140	69



YA1228



YA1229A



YA1233A



YAS1233A

Hydraulic Bottle Jacks

Stock No.	Capacity, tons	Low Height, inches	Maximum Height, inches	Screw Extension, inches	Base Size, inches	Handle Length, inches	Cap Diameter, inches	Operating Force, lbs
YA1228	8	8 7/8	17 5/8	2 3/4	4 3/4 x 4 3/4	18 1/8	1 3/8	101
YA1229A	12	9 1/2	18 5/8	3 1/8	5 1/4 x 5 1/8	18 1/8	1 3/4	102
YAS1229A*	12	6	10 5/8	1 5/8	5 1/4 x 5 1/8	18 1/8	1 3/4	89
YA1233A	20	9 1/2	18 5/8	3 1/8	6 1/4 x 5 7/8	18 1/8	2	109
YAS1233A*	20	6 1/2	11 1/4	1 5/8	6 1/4 x 5 7/8	18 1/8	2	101

*Low profile model

- Do not exceed capacity of jacks or jack stands
- Do not work on vehicles supported by jack, use jack stands
- Use jack and jack stands only on hard level surfaces
- Read safety precautions on pages W1 to W4



WARNING



Stands



YA779B



YA874B



YA875B



YA512



ALUMSTAND



YA4716



YA4712

Jack Stands (in pairs)

Stock No.	Capacity, tons	Low Height, inches	Maximum Height, inches
YA874B	3 (per pair)	12	19
YA875B	6 (per pair)	16 ³ / ₈	25 ³ / ₈
YA512*	12 (per pair)	17 ¹ / ₂	27 ¹ / ₂
ALUMSTAND*	3 (per pair)	10 ³ / ₈	15 ³ / ₈
YA4712*	12 (per pair)	19 ³ / ₄	30 ¹ / ₄
YA4716*	6 (per pair)	15 ³ / ₄	24 ³ / ₈

*Blue-Point®

YA4712 and YA4716 Pneumatic Jack Stands.

- Pneumatic cylinder automatically raises saddle to service height
- Saddle raises by pressing lever, automatically locks into place upon release

Utility Stand (Blue-Point)

- Slim design maximizes work spaces and storage
- Acme screw allows for precise height adjustment

Stock No.	Capacity, tons	Low Height, inches	Maximum Height, inches	Base Size, inches	Cap Size, inches
YA779B	³ / ₄	53 ¹ / ₄	80	12 (diameter)	5 ⁵ / ₁₆ X 2 ⁷ / ₁₆

Wheel Dolly



YA765D

Hydraulic Wheel Dolly (Blue-Point)

- Provides smooth, positive power for the removal and installation of single, tandem and duplex tires and wheels
- Lift arms can be adjusted to handle different wheel combinations

Stock No.	Capacity, tons	Lift Range, inches	Lifting Arm (length), inches	Lifting Arm (spread), inches	Length, inches	Width, inches	Height, inches
YA765D	³ / ₄	2 ¹ / ₂ to 8 ³ / ₈	26	27 ¹ / ₂	45 ¹ / ₈	39 ¹ / ₂	34 ⁵ / ₈

Transmission Jacks

Transmission Jacks (Blue-Point®)

YA714D 1/2 Ton High Lift Transmission Jack.

- Crank for precise and easy alignment of saddle
- 4 adjustable load support arms fit most transmission pan flanges
- Foot pedal pump permits hands free operation
- Wide base and 4 casters for stability

YA715A 1/2 Ton Air/Manual Hydraulic Transmission Jack.

- Uses air for speed of operation and manual pump for precise control
- Extra wide base lowers center of gravity and promotes stability
- Rugged steel wheels and full swivel ball bearing casters
- Adjustable ratchet style saddle
- Unique, handy release pedal provides controlled lowering of load



YA714D

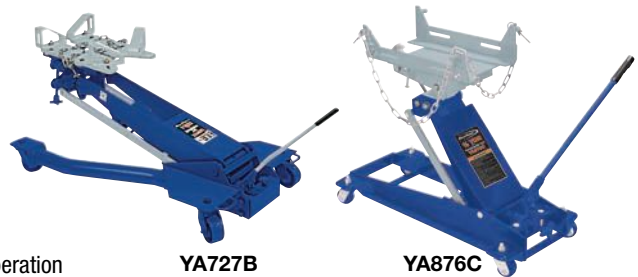
YA715A

YA727B 1 Ton Wishbone Hydraulic Transmission Jack.

- Use on bus, truck, farm, automotive and construction vehicles
- Load restraint chain included
- 2 heavy cast adjustable mounting plates
- 4 wedges to support load

YA876C 1/2 Ton Hydraulic Transmission Jack.

- Adjustable head can be tilted for optimum alignment of transmission bolt patterns
- 4 wheel caster design allows easy movement and positioning
- Rugged steel wheels and full swivel ball bearing casters
- User friendly 360° rotating pumping socket for maximum directional operation



YA727B

YA876C

Transmission Jack Specifications

Stock No.	Cap., tons	Max. Ht., inches	Saddle Base, inches	Lifting Head Size, inches	Handle Length, inches	Chassis Length, inches	Chassis Width, inches	Tilt	Min. Ht., Inches	Exp. Saddle Area, Inches	Jack Size, Inches	Net Weight, lbs
YA714D	1/2	76 3/8	8 7/8 x 7 1/8	15 1/2 x 15 1/2	11		33 1/2	12°	33	21 x 21	34 1/8 L x 36 1/8 W	161
YA715A	1/2	78 1/8	8 7/8 x 7 1/8	9 x 9	11		20	12°	37 7/8	21 x 21	34 1/8 L x 36 1/8 W	196
YA727B	1	44 3/4	18 5/8 x 12 1/4	15 1/2 x 15 1/2	19 1/2	48	29 7/8	44° (fwd) 39° (rear) 13° (left and right)	10	20 1/2 L x 18 1/2 W	47 1/2 L x 28 1/4 W	309
YA876C	1/2	24 3/4	12 5/8 x 7 7/8	9 x 9	22 1/2	31	15	60° (fwd) 18° (rear) 12° (left and right)	8 1/2	17 x 9 3/8	31 1/8 x 15	106

Transmission Jack Accessories

YA780 Transmission Jack Bracket.

- Used with a transmission jack
- Fits most FWD and RWD automatic transmissions
- Use to stabilize transmission when being removed or installed



YA780

Fuel Tank Stand

YA712A Fuel Tank Stand.

- Easily service fuel tank, fuel pumps and other components
- Handles fuel tanks up to 40 gal (empty)
- Includes anchoring straps and grounding wire
- Measures 9 1/4" H x 32" L x 15 3/8" W



YA712A

End Lifts

Air Operated End Lifts

Specifications	YA696D	YA692D
Capacity, tons	2 1/2	10
Low Height, inches	10 1/4	18 1/2
Maximum Lift Height, inches	35 3/8	50 1/2
Power Raise, inches	24 3/4	28
Saddle Spread, inches	28 to 53	25 to 53
Minimum psi (for rated load)	200	200
Clearance (lifting column to saddle front), inches	19	17
Net Weight, lbs (kg)	210 (95)	641 (290)



YA696D



YA692D

- Do not exceed capacity of jacks or jack stands
- Do not work on vehicles supported by jack, use jack stands
- Use jack and jack stands only on hard level surfaces
- Read safety precautions on pages W1 to W4



WARNING



Battery Lift



YA785

Battery Lift

YA785 Hybrid Battery Lift.

- Removes and installs battery assemblies on most Hybrid vehicles
- Accommodates battery packs with a special harness to adapt to specific lift points
- Provides a safe alternative to manual lifting
- Minimizes potential damage to vehicle interior
- Compact design, easily folds down requiring minimal storage space
- Harness is designed specifically for Hybrid electrical batteries and rotates 360

HYBRID
INNOVATION

Engine Hoists and Slings/Bottle Jacks (Blue-Point®)



A238



YA554A



YA778



GA197A



YA2670A

Engine Hoist and Sling

YA778 Engine Hoist.

- Lift arm extends from 27 to 55", height of 94.5"
- External remote pump with fine adjustment
- 25" x 33" footprint when folded for easy storage
- 360° swivel hook allows mobility
- Maximum 2 ton lifting capacity

A238 Engine Sling.

- 40" flexible cable each end with a fitting drilled for 1/2" diameter bolts

YA554A Engine Lift Plate.

- Bolts to intake manifolds on U.S. 2 or 4 barrel carbureted V6/V8 engines and throttle body V6/V8 engines
- 1 1/2 ton lift capacity

GA197A Lifting Pulling Tool.

- Maximum lift of 6', minimum of 2'
- Anchored hook swivels a full 360°

YA2670A Engine Support Kit and Hoist.

- Ideal for FWD transmission removal and installation
- Supports engine and provides 15° adjustability in each direction
- Rests on drip rails between fenders across engine bay
- Accommodates engine compartments from 46 to 61 1/2"
- Includes YA2671A Lifting Assembly

YA2671A Lifting Assembly.

- Replacement Lifting Assembly for YA2670A

Optional Accessories:

YA2673A Offset Lifting Bar.

- Attaches to the YA2670A and radiator core support
- Provides additional lifting and support

YA2674A W-Car Offset Bar for GM® Vehicles.

- Designed to assist with GM W-Car body style

YA2675A Swivel Adaptor Set.

- Provides the ability for the leg plates to swivel
- Ideal for engine compartments that are wider at the windshield

YA2676A Leg Plates for Honda® Vehicles.

- Adapts to fenders on Honda vehicles
- Used with YA2675A Swivel Adaptor Set

Welding Equipment That Works as Hard as You Do.

The many Snap-on® MIG or TIG welders and accessories, plasma cutters, oxygen-acetylene torch kits, protective safety equipment and welding tools do their job so you can keep doing yours.

Performance Longer weld times, higher duty cycles and wider amperage ranges contribute to industry-leading performance.

Durability Metal wire feeder assemblies, copper-on-copper transformer construction and integral cooling fans provide increased longevity.

Safety Protect yourself with safety equipment that gives you a natural feel as you work. From basic masks to auto-darkening visors to protective sleeves and gloves.



WELDING

Snap-on® Muscle MIG/MIG Wire Feed Welders

Snap-on MIG Welders have higher duty cycles at maximum amperage providing added weld times and performance that surpasses the competition. Ideal for many applications including automotive repair, collision, heavy duty truck, farm and metal fabrication shops. Added capabilities include a detachable feeder assembly, spot stitch (some models), along with the optional TIG accessory and aluminum spool gun packs.

Wire feed assembly, constructed of precision machined cast aluminum, features all metal gearing and 800 in/min delivery for consistent wire speeds

Capacitor bank and diode set deliver consistent voltage and industry leading smooth arc characteristics

All copper wound, tapped transformer features Nomex® insulation and bolted laminations to provide precise voltage control and repeatable welds



MIG220



MM250SL



MM350XL

230 V MIG Welders

Specifications	MIG220	MM250SL	MM350XL
Output Amperage Max, amps	220	270	350
Duty Cycle Rating	185A-60%	185A-100%	300A-100%
Welding Capacity, inches	5/16	3/8	7/16
Voltage Settings, MIG/TIG	12/4	8/4	8/4
Spot Stitch	No	Yes	No
Detachable Feeder	No	Yes	Yes
Wire Size, inches	0.023-0.045	0.023-0.045	0.023-0.0625
Torch Length, ft	10	10	12
Feeder Cable Length, ft		15	15
Ground Cable Length, ft	10	15	15
Power Input Cable Length, ft	20	20	20
Input Voltage	208/230 V AC, 50/60 Hz	208/230 V AC, 50/60 Hz	208/230 V AC, 50/60 Hz
Input Amperage (recommended)	31/28	26/24	46/42
Gas Regulator Flowmeter	Yes	Yes	Yes
Warranty*	2 Years	2 Years	2 Years

*Does not include cable or torch

TECHNICAL SUPPORT
1-800-ABC-WELD

Portable MIG/MIG/Muscle MIG Welders

Snap-on® MIG welders can be used as straight polarity with shielding gas or reverse polarity without shielding gas for flux cored wire. MIG125 and MIG135 are compact and portable for use on the work site.



115 V MIG Welders

Specifications	MIG125	MIG135	MIG140	MM140SL
Output Amperage Max, amps	125	135	140	140
Duty Cycle Rating	80A-20%	90A-20%	140A-60%	140A-100%
Welding Capacity, inches	3/16	3/16	1/4	1/4
Voltage Settings, MIG/TIG	4/-	7/-	6/3	8/4
Spot Stitch	No	No	No	Yes
Detachable Feeder	No	No	No	Yes
Wire Size, inches	0.023-0.035	0.023-0.035	0.023-0.035	0.023-0.045
Torch Length, ft	7	9	10	10
Feeder Cable Length, ft	—	—	—	15
Ground Cable Length, ft	8	8	10	15
Power Input Cable Length, ft	6	6	20	20
Input Voltage	115 V AC, 50/60 Hz	115 V AC, 50/60 Hz	115 V AC, 50/60 Hz	115 V AC, 50/60 Hz
Input Amperage (recommended)	20	20	30	30
Gas Regulator Flowmeter	Regulator	Regulator	Yes	Yes
Warranty*	2 Years	2 Years	2 Years	2 Years

*Does not include cable and torch

TECHNICAL SUPPORT
1-800-ABC-WELD

Accessories - MIG Welders

Image	Stock No.	Description	MM140SL	MM250SL	MM350XL	MIG220	MIG140
	MHG5A	Aluminum Spool Gun • Converts welders listed to aluminum welding				•	•
	MHG5B		•	•	•		
	CKSTP2125A	DC TIG Pack • Adds DC TIG welding capability for welding ferrous metals				•	•
	FLEXTIG25		•	•	•		
	CKS2TK	Twin Cylinder Rack • Converts models listed to carry 2 cylinders		•	Standard	•	
	CKS15FN1030	Flexible Neck Torch • Flexible neck torch for welding exhaust systems	•	•	•	•	•



WARNING



- Wear face shield and protective clothing while welding and cutting
- Do not allow bystanders while welding and cutting
- Read safety precautions on pages W1 to W4

Muscle MIG/MIG Welder Parts and Accessories



CKSMPK1

CKSMPK10

Snap-on® MIG Welder Consumable Kits

Contains a selection of parts to repair Snap-on MM series, MI 220, MI 140, YA212AIND and FM140A welders along with MH series spoolguns.

CKSMPK1 MIG Welder Parts Kit.

- Standard MI consumables such as contact tips, O-rings, nozzles, insulator and diffuser

CKSMPK10 Master MIG Welder Parts Kit.

- Contains CKSMPK1 contents along with additional parts for aluminum spoolguns



MIGCARTA

MIGCARTA Welder and Plasma Cutter Cart (Blue Point®).

- 21" x 14.5" top tray for storage of MI welders and plasma cutters
- Includes multiposition cylinder bracket for various bottle sizes
- Includes 2 hooks for cable storage

Parts and Consumables - MIG Welders

Stock No.	Description	MIG140	MM140SL	MIG220	MM250SL	MM350XL
CKS15TG1030	10 ft Cable and Torch (.030 wire)	std	std	opt	opt	
CKS15TG1035	10 ft Cable and Torch (.035 wire)	opt	opt	std	std	
CKS35XL1235	12 ft Cable and Torch (.035 wire)					std
CKS15TG1025	10 ft Cable and Torch (.025 wire)	opt	opt	opt	opt	
CKS15TG1230	12 ft Cable and Torch (.030 wire)	opt	opt	opt	opt	
CKS15TG1235	12 ft Cable and Torch (.035 wire)	opt	opt	opt	opt	
CKS15TG1535	15 ft Cable and Torch (.035 wire)	opt	opt	opt	opt	
CKS25SG1035	10 ft Cable and Torch (.035 wire)	opt	opt	opt	opt	opt
CKS35XL1245	12 ft Cable and Torch (.045 wire)					opt
CKS35XL1535	15 ft Cable and Torch (.035 wire)					opt
CKS35XL1545	15 ft Cable and Torch (.045 wire)					opt
CKSM103LB	Liner for 10 ft Torch (.020-.030)	std	std	opt	opt	
CKSM123LB	Liner for 12 ft Torch (.020-.030)	opt	opt	opt	opt	opt
CKSM104LN	Liner for 10 ft Torch (.030-.045)	opt	opt	std	std	
CKSM124LN	Liner for 12 ft Torch (.030-.045)	opt	opt	opt	opt	std
CKSM3T2510	Contact Tip (.025), 10 ea	opt	opt	opt	opt	opt
CKSM3T3010	Contact Tip (.030), 10 ea	std	std	std	std	opt
CKSM3T3510	Contact Tip (.035), 10 ea	opt	opt	opt	opt	std
CKSM3T4510	Contact Tip (.045), 10 ea	opt	opt	opt	opt	opt
CKSM3TN50	1/2" Adjustable Nozzle	std	std	std	std	
CKSM6C62	Nozzle with 5/8 ID			-		std
CKSM3TB2	Insulators (2 ea) w/O-rings, 6 ea	std	std	std	std	
CKSM3TBR3	Insulator O-rings	std	std	std	std	
CKSM3TD	Gas Diffuser	std	std	std	std	
CKSM6D	Gas Diffuser					std
CKSM6B	Insulated Nozzle Bushing					std
CKSGRFM	Regulator Flowmeter	std	std	std	std	std

std = Standard

opt = Optional

Portable MIG Welder Parts and Consumables

Stock No.	Description	MIG125	MIG135
CKSGR115	Regulator	std	std
MIG023	Contact Tip (.023), 10 ea	std	std
MIG030	Contact Tip (.030), 10 ea	opt	opt
MIG035	Contact Tip (.035), 10 ea	opt	opt
MIG1151	Tapered Nozzle	std	std
MIG1152	Spot Weld Nozzle	opt	opt
MIG1153	Steel Liner	std	std
MIG1154	Nozzle Spring	std	std
MIG1155	9 ft Cable and Torch		std
MIG1156	Diffuser	std	std
MIG1157	Teflon Liner (for aluminum wire)	opt	opt

std = Standard

opt = Optional

Aluminum Spool Parts and Consumables

Stock No.	Description	MHG5A	MHG5B
CKSM5C62	5/8" Nozzle	std	std
CKSM5NB	Nozzle Body	std	std
CKSM5B	Insulated Nozzle Bushing	std	std
CKSM35NA62	Nozzle Assembly	std	std
CKSM35D	Gas Diffuser	std	std
CKSMGT2510	Contact Tip (.025) 10 ea	opt	opt
CKSMGT3010	Contact Tip (.030) 10 ea	opt	opt
CKSMGT3510	Contact Tip (.035) 10 ea	std	std
CKSMGT36410	Contact Tip (3/64) 10 ea	opt	opt
CKS404330	Aluminum Wire (Size .030) 1 lb	opt	opt
CKS404335	Aluminum Wire (Size .035) 1 lb	std	std
CKS4043364	Aluminum Wire (Size 3/64") 1 lb	opt	opt

std = Standard

opt = Optional

TIG Pack Parts and Consumables

Stock No.	Description	CKSTP2125A	FLEXTIG25
CKS3T116	Tungsten 3" - size 1/16"		std
CKS3T332	Tungsten 3" - size 3/32"	std	std
CKS3T418	Tungsten 3" - size 1/8"	std	opt
CKS3C116	Collet for 1/16" Tungsten		std
CKS3C332	Collet for 3/32" Tungsten	std	std
CKS3C418	Collet for 1/8" Tungsten	std	opt
CKS3CB116	Collet Body for 1/16" Tungsten		std
CKS3CB332	Collet Body for 3/32" Tungsten	std	std
CKS3CB418	Collet Body for 1/8" Tungsten	std	opt

std = Standard

opt = Optional

Welds a variety of metals including steel, aluminum, stainless steel and chromoly.



TIG150i Face Plate



TIG255i Face Plate



TIG150i



TIG255i

Specifications	TIG150i	TIG255i
Torch	Gas Cooled	Water Cooled
Input Voltage	208/230 V AC	208/230 V AC
Input Current, A	30	30
Output Current, Range	5-150 A	5-220 A
Duty Cycle, Rating	110 A-60%	130 A-60%
Torch Lead Length, ft	25	25
Ground Cable Length, ft	25	25
Power Cord Length, ft	12	12
Shipping Weight, lb (kg)	57 (26)	180 (82)

TIG Welders

- Welding Process Versatility: select between AC TIG, DC TIG or Stick Electrode welding options
- Amperage Control: fine adjustment range to weld extremely thin materials to maximum thicknesses
- TIG 2 or 4 stage continuous and pulse modes
- AC Balance Adjustment: penetration, balanced and cleaning
- Pulse and background amperage adjustment
- AC frequency adjustment
- Upslope/Downslope as well as post as flow adjustment
- High frequency/scratch starting modes

TIG150i TIG Welder.

- Full featured 150 A TIG welder that's ideal for everyday shop use

TIG255i TIG Welder.

- Full featured 255 A TIG welder with a water cooled torch for longer weld times, cooler operation and enhanced dexterity
- Ideal for production welding environments

Stock No.	Description	TIG150i	TIG255i
TIGINVFS	Remote Foot Switch	std	std
CKSGRFM	Regulator-Flowmeter	std	std
TIG150GCA	Ground Cable Assy.	std	std
TIG150TA	Torch Assembly	std	—
TIG255TA	Torch Assembly	—	std
CKSKITTIG250	Consumable Kit	std	std
TIGINVFP	Foot Pedal Amperage Control	opt	opt
TIGINVRAD	Clip On Torch Amperage Control	opt	opt
TIG250EH	Stick Electrode Holder	opt	opt
TIG250HC25	Leather Cable Cover	opt	opt

std = Standard

opt = Optional

TECHNICAL SUPPORT
1-800-ABC-WELD



TIGINVFP



TIG250EH



TIGINVRAD



WARNING



- Wear face shield and protective clothing while welding and cutting
- Do not allow bystanders while welding and cutting
- Read safety precautions on pages W1 to W4

WELDING

Plasma Cutters

Snap-on® plasma cutters are ideal for cutting ferrous (steel, stainless steel) metals as well as nonferrous metals (aluminum) and new high strength steels. Uses clean, dry compressed air, includes air regulator for accurate adjustment of air pressure for the best quality cut. Compact torch handle for accessing tight areas.



Specifications	PLASMA60i	PLASMA50	PLASMA30i	PLASMA25
Output Amperage, max, A	Adjustable 20 to 55	30 or 50	Adjustable 5 to 25	25
Cut Thickness, inches	3/4	1/2	3/8	1/4
Sever Thickness, inches	1	3/4	1/2	3/8
Primary Input, V	208/230 V AC 50/60 Hz	208/230 V AC 50/60 Hz	115 or 230 V AC 50/60 Hz	115 V AC 50/60 Hz
Primary Input, A	40 A	30 A	30 A 115 V or 20 A 230 V	20 A
Duty Cycle Rating	40 A-60%	50 A-40%	22 A-60%	25 A-20%
Compressed Air Requirements, min	68 psi @ 7 CFM	88 psi @ 7 CFM	50 psi @ 7 CFM	88 psi @ 5 CFM
Torch Cable Length, ft	18	18	12	12
Ground Cable Length, ft	18	18	12	12
Warranty*	2 Years	2 Years	2 Years	2 Years
Net Weight, lbs (kg)	44 (20)	137 (62)	29 (13)	55 (25)

*Does not include cable or torch

TECHNICAL SUPPORT
1-800-ABC-WELD



Plasma Cutter Consumables

Description	PLASMA115	PLASMA230	PLASMA25	PLASMA50	PLASMA30i	PLASMA60i
Complete Torch Assembly	PLASMA1153	PALASMA23010	PLASMA2503	PLASMA5007	PLASMA3007	PLASMA5007
Metal Diffuser			PLASMA5005*	PLASMA5005*		PLASMA5005*
Short Nozzle (0.9 mm) 35 A	PLASMA2306	PLASMA2306				
Short Nozzle (1 mm) 30-35 A	PLASMA2301	PLASMA2301				
Electrode	PLASMA1151	PLASMA2305	PLASMA5004	PLASMA5004	PLASMA3004	PLASMA5004
Long Electrode	PLASMA1152*	PLASMA2307				
Nozzle (0.7 mm)					PLASMA3002	
Nozzle (0.9 mm) 35 A			PLASMA2502	PLASMA2502		PLASMA2502
Nozzle (1.1 mm) 55 A			PLASMA5002	PLASMA5002		PLASMA5002
Long Nozzle (0.9 mm) 35 A	PLASMA2308	PLASMA2308				
Long Nozzle (1 mm) 35-50 A	PLASMA2302**	PLASMA2302**				
Nozzle Holder	PLASMA2304	PLASMA2304	PLASMA5001	PLASMA5001	PLASMA3001	PLASMA5001
Spacer Spring		PLASMA2309				
Swirl Ring	PLASMA23031	PLASMA23031	PLASMA5003*	PLASMA5003*	PLASMA5003*	PLASMA5003*
Torch Head Body		PLASMA23011	PLASMA5006	PLASMA5006	PLASMA3006	PLASMA5006
Two Point Spacer			PLASMA2504	PLASMA2504		PLASMA2504

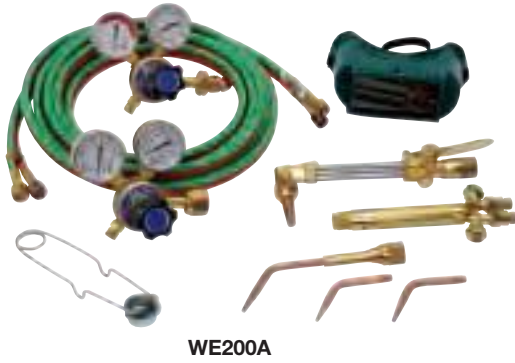
1 each per package unless otherwise noted

* 2 each per package

** 3 each per package

5 each per package

Gas Welding (Blue Point®)



WE200A



WE250A

Gas Welding

- Use for auto repair, construction, fabrication, manufacturing and maintenance
- Forged brass regulator is durable and strong
- Regulator diameter 2 1/4" allows precise control of gas
- Internal filter keeps particles from entering regulator
- PTFE Teflon® seal
- Handle shut off valve color coding allows ease in identifying the corresponding gas control
- 2 piece cutting tip is easier to clean
- High quality hose offers reduced tear resistance and increased flexibility

WE200A Standard Duty Welding Kit.

- Cuts up to 1" and welds up to 1/8". Cuts up to 4" and welds up to 1/2" with optional tips

WE250A Medium Duty Welding Kit.

- Cuts up to 1" and welds up to 1/8". Cuts up to 5" and welds up to 1/2" with optional tips

Kit Components

Stock No.	Description	Set Contains:	
		WE200A	WE250A
HRC1401340	85 Weld Handle with Check Valves	std	std
HRC1300380	72-3 Cut Attach	std	std
HRC9100614	D-85 Weld Mixer	std	std
HRC4300557	3/16 x 20 Twin Hose	std	std
HRC4304482	Cover Goggle	std	std
HRC9004486	Striker	std	std
WE200A1	Oxygen Regulator	std	-
WE200A2	Acetylene Regulator	std	-
WE250A1	Oxygen Regulator	-	std
WE250A2	Acetylene Regulator	-	std
HRC1502172	6290-1 #1 AC Cut Tip	std	std
HRC1600890	23-A-90-5 #5 Weld Tip	std	std
HRC1600870	23-A-90-3 #3 Weld Tip	std	std
HRC1600850	23-A-90-1 #1 Weld Tip	std	std

std = Standard

opt = Optional

Optional Accessories

Stock No.	Description	Set Contains:	
		WE200A	WE250A
HRC1800710	J-63-1 Heating Assembly	opt	opt
HRC1600840	23-A-90-0 #0 Weld Tip	opt	opt
HRC1600860	23-A-90-2 #2 Weld Tip	opt	opt
HRC1600880	23-A-90-4 #4 Weld Tip	opt	opt
HRC1502170	6290-00AC #00AC Cut Tip	opt	opt
HRC1502171	6290-0AC #0AC Cut Tip	opt	opt
HRC1502173	6290-2AC #2AC Cut Tip	opt	opt
HRC1502174	6290-3AC #3AC Cut Tip	opt	opt
HRC1502175	6290-4AC #4AC Cut Tip	-	opt
HRC4302202	Torch Flash Arrestor (Pair)	opt	opt
HRC9000160	E-9 Tip Cleaner (2 pc tip)	opt	opt
HRC9004484	Replacement Flints	opt	opt

std = Standard

opt = Optional

Welding Gloves/Sleeves (Blue Point)



YA427B Welding Gloves.

- Helps protect hands from sparks when welding
- Leather construction with added insulation for heat protection
- Reinforced palm for durability



YA4282 TIG Welding Gloves.

- Ideal for TIG welding processes
- Pigskin material for precise control
- Helps protect hands from heat and sparks
- Thick leather cuff for wrist protection



YA4280 Welding Sleeves.

- Helps protect arms from sparks when welding or cutting
- Elastic bands at each end of sleeve
- Constructed of flame retardant fabric



WARNING



- Wear face shield and protective clothing while welding and cutting
- Do not allow bystanders while welding and cutting
- Read safety precautions on pages W1 to W4

Accessories

Welding Helmets (Auto Darkening)

Auto darkening welding helmets are triggered automatically by UV light sources. Some models have adjustable sensitivity for various light conditions and an adjustable delay setting to maintain dark state for extended periods of time. Fixed shade helmets offer a fixed #10 shade triggered automatically by UV light. Clear shade provides operator visibility to line up work prior to welding.



YA4606



YA4604



YA4601



YA4602



YA4603

Specifications	YA4606	YA4604	YA4601	YA4602*	YA4603*
Shade	#9-13	#9-13	#9-13	#9-13	#10
Sensitivity	Adjustable	Adjustable	Adjustable	Adjustable	Fixed
Delay	Adjustable	Adjustable	Adjustable	Fixed	Fixed
Clear Shade	#3.5	#3.5	#3.5	#3.5	#3.5
Viewing Area, inches	3.74 x 3.35	3.81 x 2.40	3.81 x 2.40	3.81 x 1.88	3.81 x 1.38
Viewing Area, square inches	12.53	9.14	9.14	7.16	5.26
Number of Sensors	4	4	4	2	2
Delay Time, seconds	0.1-1.0	0.1-1.0	0.2-1.0	0.1-1.0	0.25-0.045
Switching Speed, milliseconds	0.04	0.04	0.04	0.04	0.04
Power Supply	Solar-Lithium	Solar-Lithium	Solar-Lithium	Solar	Solar
Applicable Standards	ANSI, DIN, EN, CSA, AS/NZS	ANSI, DIN, EN, CSA, AS/NZS	ANSI, DIN, EN, CSA	ANSI, DIN, EN, CSA	ANSI, DIN, EN, CSA
Opt. Magnifying Lens 1.5x/2.0x	YA4600MAGKT	YA4600MAGKT	YA4600MAGKT	YA4600MAGKT	YA4600MAGKT
Warranty	2 Years	2 Years	2 Years	1 Year	1 Year

*Blue Point®



Welding Helmets (Fixed Shade)

Fixed shade welding helmets offer shade #10 protection. Hinged mask can be adjusted for hands free drop down.



YA551B



EFPBONEHEDA



EFPSTRIKERA



EFPHANNIBALA



EFPNSTLKRA

Specifications	YA551B	EFPBONEHEDA	EFPSTRIKERA	EFPHANNIBALA	EFPNSTLKRA
Lens Style	Flat	180° Peripheral	180° Peripheral	180° Peripheral	180° Peripheral
Shade	#10	#10	#10	#10	#10
Viewing Area, inches	5.25 X 4.50				
Viewing Area, square inches	23.63	35.6	35.6	35.6	35.6
Applicable Standards	ANSI	ANSI	ANSI	ANSI	ANSI
Lens (Included)	YA551-5	EFPCLLENSREP	EFPCLLENSREP	EFPCLLENSREP	EFPCLLENSREP
Opt. Magnifying Lens 1.5x	YA555MAG1.5*				
Opt. Magnifying Lens 2.0x	YA555MAG2.0*				
Opt. Auto Darkening Lens		EFPADFLENSA	EFPADFLENSA	EFPADFLENSA	EFPADFLENSA
Warranty	2 Years	1 Year	1 Year	1 Year	1 Year

* requires YA551MAGADP



EFP Series Welding Lenses

Optional auto darkening lens available for all EFP series helmets

- EFP3WLDLENS #3 Welding Lens.**
- EFP5WLDLENS #5 Welding Lens.**
- EFP8WLDLENS #8 Welding Lens.**
- EFP10WLDLENS #10 Welding Lens.**
- EFP12WLDLENS #12 Welding Lens.**
- EFPADFLENSA Auto Darkening Lens.**



EFPADFLENSA

Welding Lenses

YA4600MAGKT Magnifying Lens Kit.

- Comes complete with 1.5X and 2.0X magnifying lenses and lens holder
- Optional accessory provides additional magnification for YA4601, YA4602, YA4603, YA4604 and YA4606 welding helmets only
- **CE**



YA4600MAGKT

Welding Goggles (Blue-Point®)

GAC1100C Safety Goggles.

- Green tinted lens for acetylene torch work



GAC1100C

Marking Set

YA247 Welder's Marking Set.

Includes:

- YA247-2 soapstone marker for making temporary markings
- YA247 scribe with a sharp, tough carbide tip for making permanent markings
- Replaceable soapstone
- Each tool has a tough aluminum barrel
- Soapstone marker includes built in sharpener
- Convenient storage pouch



YA247

Welding Hammer

WCH3 Welder's Chipping Hammer.

- Features pick end and 3/4" chisel head end
- Heat treated high alloy steel for long life
- Overall length is 11"
- Head length is 7 1/2"



WCH3

Welding Clamps

C-Clamps

- Equipped with antisplatter spindles, precision cut from hardened steel
- Forged frames have extra deep throats for additional strength and work capacity
- Grooved anvil, in combination with a serrated pad, provides nonslip grip on various metal surfaces
- Spindles, handles and pads are copper plated to avoid collecting spatter

Stock No.	Capacity, inches	Throat Depth, inches
CL402A	0-2	2
CL403A	0-3	2 1/2
CL404A	0-4	2 7/8
CL406A	0-6	3 5/8
CL408A	0-8	4 1/2
CL410A	2-10	5 5/8
CL412A	2-12	5 3/4



CL402A



WARNING



- Wear face shield and protective clothing while welding and cutting
- Do not allow bystanders while welding and cutting
- Read safety precautions on pages W1 to W4

Clamps/Vises (Blue-Point®)



VGP12212

Large Jaw

Stock No.	A inch (mm)	B inch (mm)
VGP12212	3 15/16 (100)	12 (300)

- Multi purpose tool with larger jaw capacity for general maintenance and screw in oil filter removal

Locking C-Clamps

- Quick and easy handling clamps for auto body and metal fabrication applications

	Stock No.	A inch (mm)	B inch (mm)
Standard Tip	VGP12406	2 5/16 (60)	6 (152.4)
	VGP12412	3 15/16 (100)	12 (304.7)
	VGP12418	10 1/4 (260)	18 (457.2)
	VGP12424	15 11/16 (400)	24 (609.6)
Swivel Tip	VGP22406	1 5/16 (50)	6 (152.4)
	VGP22412	3 15/16 (100)	12 (304.7)
	VGP22418	9 7/16 (240)	18 (457.2)
	VGP22424	15 11/16 (400)	24 (609.6)
Long Reach	VGP13420	10 5/8 (270)	20 (508)
Aluminum Alloy	VGP14412	3 1/2 (90)	12 (304.7)
Locking U-Clamp	VGP12509	2 5/16 (60)	9 (228.6)
Self-Leveling Jaws	VGP23312	3 15/16 (100)	12 (304.7)
Sheet Metal Clamp	VGP12808	1 3/4 (45)	8 (203.2)
Plugweld Pliers	VGP13709	1 9/16 (40)	9 (228.6)



VGP12509

VGP12509 Locking U-Clamps

- U-shaped jaws allow access and visibility when welding



VGP13709

VGP13709 Locking Pliers/Plugweld

- Copper alloy knurled pad prevents burnthru when plugwelding thin sheet metal



VGP22418

VGP22418 Locking C-Clamps/Swivel Tip

- Swivel pads allow parallel clamping while preventing denting or gouging on delicate surfaces



VGP23312

VGP23312 Locking Clamps/Self Leveling Jaws

- Swivel pads and narrow jaw profile firmly grip tapered surfaces in areas where c-clamps cannot fit

Auto Body/Welding Sets

VGP104 Autobody/Welding Locking Pliers Set.

- Includes V P23312 self leveling jaws pliers, V P13709 plugweld pliers plus V P14412 and V P12406 c-clamp pliers (4 pcs) in V P1041 kit bag

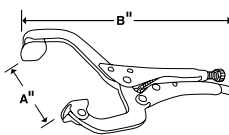


CL408VIS

CL408VIS High Visibility C-Clamps

- Similar to CL series C-clamps
- High visibility models conform to OSHA safety color standard for physical hazards regulation #19110.144
- 3/4" spindle diameter

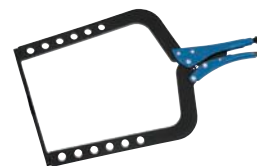
Stock No.	Capacity, inches	Throat Depth, inches
CL404VIS	0-4 1/2	3 1/4
CL406VIS	0-6 1/16	3 5/8
CL408VIS	0-8 1/4	5



VGP12412

VGP12412 Locking C-Clamps

- Quick and easy handling clamps for auto body and metal fabrication applications



VGP13420

VGP13420 Locking C-Clamps/Long Reach

- Wide profile with perforated jaws allows clamping around large objects with uniform tension distribution



VGP12808

VGP12808 Locking Clamps/Sheet Metal

- Wide jaws allow clamping, bending, forming and crimping of sheet metal without gripping effort



VGP14412

VGP14412 Locking C-Clamps/Aluminum Alloy

- Lightweight aluminum jaw will not bend or distort body panels
- Welding pellets will not adhere to jaw



MG2000K

Welding Clamps/Miniature

- Micro size for optimal access into confined spaces
 - Aluminum alloy body ensures robustness with minimal weight while resisting splatter and corrosion
 - Design permits exertion of 1/2 ton of force without deformation
 - Perforated jaw allows attachment to fixtures and connection of ground cables
 - One handed "no pinch" clamping and release
- #### MG2000K Micro Grip Locking Clamp Set.
- Includes 4 micro grip clamps

Spot Welders



YA22300A

YA22300A Standard Duty Spot Welder.

- Produces spot welds for collision repair
- Squeeze type action produces factory style welds
- Optional accessories can increase welding capability

YA223001 Welding Tip.

- Long spot welding tip for YA22300A

YA223002 Welding Tip.

- Short spot welding tip for YA22300A

YA223003 Welding Tip.

- Replacement drip rail welding tip for the YA223004 welding cable assembly

YA223004A Welding Cable Assembly.

- Accessory welding cable assembly for the YA22300A
- Allows welding from a single side such as door skins and other applications

YA223005A Dent Puller Kit.

- Fast, effective dent repair without drilling holes or using draw pins

YA223006 Welding Tip.

- Replacement welding tip for the YA223004 welding cable assembly

YA223009 Welding Tip.

- Drip rail spot welding tip for YA22300A

YA22356 Handle.

- New style handle to house the improved YA22357 switch
- Can be retrofitted to older models

YA22357 Switch.

- Improved metal encased switch for increased durability
- Can be retrofitted to older models



YA22355

YA22355 Heavy Duty Liquid Cooled Spot Welder.

- Designed to produce factory type spot welds in collision repair
- Squeeze type action produces factory style welds
- Pneumatic gun welds through primers, sealers and adhesives
- Features coolant circulation throughout the welding tips for consistent weld penetration
- Included accessories: 14" long reach electrode and wheelhouse electrode



Wheelhouse Electrode



Long Reach Electrode

Specifications	YA22300A	YA22355
Primary Voltage, V AC	208/230	208/230
Line Fuse, A	50	60
Max Output, A	2,800	6,000
Max Thickness, ga.	2 pcs 20	3 pcs 20
Coated Metal Capability	No	Yes
KVA Rating	4	6
Shipping Weight, lbs	120	300

Dent Pullers/Accessories



YA22345KT

Stud Gun Dent Pullers

YA22345KT Stud Gun Dent Puller Kit.

- Kit includes stud gun, welding tips, slide hammer and T-puller
- Used to pull dents by welding pins to work piece
- Stud gun uses minimal heat to reduce burn through

YA223451 Draw Pins (2 mm).

- Soft for easy flexing and grinding
- Delivers 500 lb pull
- Pack of 500

YA223452 Draw Pins (2.5 mm).

- Soft for easy flexing and grinding
- Delivers 500 lb pull
- Pack of 500

YA223454 T-Puller.

- Compact for small damage repair on lightweight metal
- Helps reduce overpull



YA223453

YA223453 Magna Clamp.

- Features wing nut and is self tightening
- Locks onto draw pins for pulling dents

YA223455 Slide Hammer.

- Polished steel bar with rubber handle ensures positive pulling action

YA223456 Shrinking Electrode.

- Provides fast heat

YA223457 Pin Electrode.

- Holds all standard size pins

YA223458 Trim Rivets.

- Used to repair metal trim strips
- Weld onto panel and provide permanent retention to trim strip
- Pack of 500

YA223459 Rivet Electrode.

- For use with YA223458 trim rivets
- Retains trim rivet for welding



WARNING



- Wear face shield and protective clothing while welding and cutting
- Do not allow bystanders while welding and cutting
- Read safety precautions on pages W1 to W4

Dent Puller Systems



YA22350C



YA22375

Portable Dent Pulling System

- Easily pulls dents on roofs, hoods and side panels
- Star tip design eliminates the need to drill holes or cut pin heads
- Built-in slide hammer speeds up the pulling process (YA22350C only)



YA2235CART



YA2351

YA2352

YA2353

YA2358

Specifications	YA22350C	YA22375	YAH22350C	YAH22375
Type	Star Tip	T-handle	Star Tip	T-handle
Primary Voltage	120 V AC 50/60 Hz	120 V AC 50/60 Hz	208/230 V AC 50/60 Hz	208/230 V AC 50/60 Hz
Line Fuse	30A	30A	30A	30A
Input Power Cable Length (ft)	25	25	25	25
Power Lead Length (ft)	7	10	7	7
Ground Cable Length (ft)	7	7	7	7
Shipping Weight (lbs)	64	64	64	64

Portable Dent Puller Accessories

YA2235CART Accessory Cart. Adds additional height and portability.

YA2355 Star Tips. Replacement tips (10 ea) for the YA22350C, YAH22350C and YA223005.

YA2351 Welding Tip. Optional long stud welding tip.

YA2352 Welding Tip. Optional molding rivet welding tip.

YA2353 Heating Tip. Replacement heat shrink heating tip.

YA2358 Magnetic Base. Replacement magnetic ground clamp.

YA22357 Trigger Switch. Replacement switch.

YA223008 Pry Bar. Replacement pry bar for YA22375 and AH22375, optional for YA22350C and YAH22350C.

Quick Claw Dent Pulling Set

YA22351 Quick Claw Dent Pulling Set.

- Used with YA22350C, YAH22350C, YA22375 and YAH22375
- Used to establish multiple pull points along dents
- Independent finger action of claw varies the pulling force at multiple points
- Can pull by hand, slide hammer or chain
- Comes with claw, 2 tips and 24 wires

YA22352 Claw Handle. 4 finger "claw" pulling handle. 1 included in set.

YA22353 Welder Tips. Welding tips for YA22354 welding wires. 2 included in set.

YA22354 Weld Wires. 1/2 lb welding wires. 24 included in set.



YA22351

Innovative Lighting Solutions Define Form and Function.

You can't fix what you can't see. That's why Snap-on provides lighting solutions that shine brighter, last longer and offer a wider range to view the jobs in front of you.

Versatile Match the illumination to the task: underhood, headlight, rechargeable, corded, flexible, UV and cordless options suit the need and the space. The versatility of the line reflects the requirements of the job.

Portable Get the job done faster with hands-free, clip-on lighting options. From penlights to magnetic swivel lights, direct the light where you need it, when you need it.

Dependable Maximum brightness, a rugged exterior and rigorous testing ensure that your lighting will last day in and day out.



LIGHTING

Flashlights (Non-Rechargeable)

High Output LED Flashlights






- Precision machined aircraft aluminum
- Crush resistant 2000+ lbs
- O-ring provides ultra tight seal
- Shock proof and water resistant
- 3 way tactical switch (momentary on/constant on/lockout mode)



ECFHEAD1A

ECFHEAD1A LED Headlight (Blue-Point®).

- Bright 1 W LED never needs replacing
- Pivoting head and adjustable headband
- Water resistant
- 30 hours continuous run time on (3) AAA alkaline batteries

Stock No.	Battery Type	Number of Batteries	Effective Range (up to)	Lumens	UV Light	Overall Length, Inches	Run Time (hours)
 ECF925C	AA	1	265	55		4	1 hr 45 min
 ECF950A	123	2	120	25		4 3/4	20
 ECF965C	AA	2	443	150		5 7/8	1 hr 10 min
 ECF975B	123	2	636	200		6	3
 ECFUV950 LED/UV	123	2			Yes	4 3/4	15



ECFSN1AAF

ECFSN1AAF Focusing AA LED Flashlight.

- Exclusive Focus-Lock system
- One handed slide focus
- 100 lumens of light output from a single AA alkaline battery
- 2.5 hours continuous operation
- 426' beam distance
- 4.5" long, 1" diameter
- Flashlight features newest technology high output LEDs
- Antiroll design keeps flashlight in place
- Rubberized nonslip grip is great for both hot and cold weather use
- Limited lifetime warranty from defects in materials or workmanship



ECFSN2AAA

ECFSN2AAA 2 AAA Inspection Light.

- High output 65 lumen LED in a compact pocket light
- Antiroll design, fixed beam focus
- 200' beam distance
- 3 hour continuous operation
- 5.75" length, 0.6" diameter
- Uses (2) AAA alkaline batteries
- Flashlight features newest technology high output LEDs
- Antiroll design keeps flashlight in place
- Rubberized nonslip grip is great for both hot and cold weather use
- Limited lifetime warranty from defects in materials or workmanship



ECFSN4AAAF

ECFSN4AAAF Focusing AAA Inspection Flashlight.

- Ultra high output 200+ lumens
- One handed slide focusing & focus lock system
- Antiroll design
- Dual level light output - 1 click 100%, 2nd click 50%
- 700' beam distance
- 64 hour continuous operation
- 5.5" long, approximately 1.5" diameter
- Uses (4) AAA batteries
- Flashlight features newest technology high output LEDs
- Antiroll design keeps flashlight in place
- Rubberized nonslip grip is great for both hot and cold weather use
- Limited lifetime warranty from defects in materials or workmanship



ECFB200BL



ECFB200S

ECFB200BL/ECFB200S Penlight (Blue-Point).

- High intensity 3 W, 100 lumen penlight
- 6.25" length, 1/2" diameter
- Includes pocket clip and protective rubber tip
- Comes in blue (ECFB200BL) and silver (ECFB200S)
- Includes (3) AAA batteries



ECF35

ECF35 Explosion Proof Flashlight (Blue-Point).

- Powered by (2) D cells (not included)
- Features battery decks to isolate batteries from the bulb
- High impact plastic body for durability
- Channel gasket that waterproofs the lens and lens cap
- UL® and Bureau of Mines approved
- U.S. Federal and Military Specs. MX-992/U, Type II, Style 1, except color



ECF201A

ECF201A Aluminum Police Style Flashlight (Blue-Point).

- 3 W LED flashlight features K2 Luxeon LED produces 130 lumens
- Aerospace grade extruded aluminum body
- Average run time of 10 hours on (2) D alkaline batteries (not included)

Laser Flashlights

ECFLASER90 90 Lumen Flashlight with Red Laser.

- High output white light flood beam LED flashlight with red laser illuminates and pinpoints vehicle work area
- Switch positions: white light only, white with laser and laser only
- Anodized aluminum barrel for corrosion resistance and durability
- Features high quality 3 W Cree LED
- “Technician designed” for underhood, underdash “close quarters” work



ECFLASER90

Rotating Flashlights (Blue-Point®)



ECFLED48

ECFLED48 48 LED Rotating Magnetic Work Light.

- 48 high output LEDs produce more than 2,000 lux at 24"
- Strong magnet mounts securely on any ferrous surface
- Pivoting ball joint base permits positioning at any angle
- Includes (3) AA alkaline batteries
- 2x as bright as the original 24 LED version



ECFLED24R

ECFLED24R 24 LED Rechargeable Rotating Magnetic Work Light.

- Rechargeable version of ECFLED24 LED light
- Strong magnet mounts securely on any magnetic surface
- Mounts underhood, underdash and undercar wherever it is needed
- Keeps hands free to do the work, while lighting the work area
- Direct light to any angle using rotating magnetic base
- Provides 45 lumens light output
- Fully charges in 5 hours



ECFLED24

ECFLED24 Rotating Magnetic LED Work Light.

- 24 high output LEDs provide bright illumination
- Sturdy blue aluminum housing for durability
- Rotating head allows directional positioning
- Powerful magnetic base for secure mounting
- Includes (3) AAA batteries

Flashlights/Spotlights/Utility Lights (Rechargeable) (Blue-Point)



ECFBP20

Rechargeable Flashlights

- 20 LEDs provide up to 4 hours light output
- IP65 rated: resistant to water and dust infiltration
- 180° folding design offers the ultimate in flexible positioning
- Rechargeable and cordless for convenient use
- Includes 110 V wall charger and 12 V car charger
- Robust construction will survive rough environments
- Stand support on back; swivel hook on the top
- 800 lux at 0.5 m
- Battery Capacity: 1,200 mAh, 3.7 V Li-ion
- Charge time 4 hours
- Run time 4 hours

ECFBP20 Rechargeable Shop Light. Blue.

ECFBP20BLK Rechargeable Shop Light. Black.

ECFBP20G Rechargeable Shop Light. reen.

ECFBP20O Rechargeable Shop Light. Orange.

ECFBP2R Rechargeable Shop Light. Red.



ECFPKT20

LED Pocket Lights

- 20 high output LEDs produce 1,600 lux output at 0.5 m
- 360° folding design offers the ultimate in flexible positioning
- Belt/pocket clip to keep the light handy at all times
- Includes 110 V AC charger
- Charges completely in approximately 4 hours
- Strong Li-ion battery provides up to 4 hours of continuous light
- Rare earth magnet in base
- UL®/CSA® listed

ECFPKT20 High Output LED Pocket Light. Blue.

ECFPKT20R High Output LED Pocket Light. Red.

ECFPKT20G High Output LED Pocket Light. reen.

ECFPKT20BLK High Output LED Pocket Light. Black.

ECFPKT20O High Output LED Pocket Light. Orange.



WARNING



- Do not remove or bypass the grounding prong on any electrical plug
- Read safety precautions on pages W1 to W4

Rechargeable Utility Lights



ECFSP200A

ECFSP200A High Output Bar LED Shop Light.

- 120° wide viewing angle
- High output LED BAR
- Includes 110 V charger cord and charge base
- Professional black finish to maintain a cleaner look in tough environments
- Battery capacity 1,300 mAh
- LED life time approximately 15 years
- Continuous operation for up to 3 hours
- UL®/CSA® listed



ECFSP30A

ECFSP30A Cordless 30 LED Utility Light.

- Full charge provides continuous operation for up to 8 hours
- Versatile light positioning swivel hook, stand on end and lay on side
- 7.2 V NiMH 1300 mAh battery; 120 V AC charger input
- Impact resistant housing and shatterproof polycarbonate lens



ECFLED215

ECFLED215 Rechargeable 21 LED Shop Light (Blue-Point®).

- Rechargeable and cordless compact shop light that can be taken anywhere
- 21 front facing LEDs provide high light output to work surfaces
- 5 LED spot light provides up to 15 hours of continuous illumination
- Multifunction switch toggles between front and top LED illumination
- 180° folding design offers the ultimate in flexible positioning
- Dual magnetic design for parallel use or multi angle
- Includes both 110 V AC charger and 12 V in car charger



ECFLED2HOUV

ECFLED2HOUV High Output Rechargeable Shoplight (Blue-Point).

- 2 high output LEDs produce 1,200 lux output at 0.5 m
- High output UV top spotlight LED for leak detection
- 180° folding design offers the ultimate in flexible positioning
- Includes both 110 V AC charger and 12 V car charger for added convenience
- Scratch resistant front lens cover
- Dual magnet design for parallel or multiangle use
- 2 rear hooks for underhood or undercar applications
- UL/CSA Listed



ECFLED2HO

ECFLED2HO High Output Rechargeable Shoplight (Blue-Point).

- 2 high output LEDs produce 1,200 lux output at 0.5m
- High output top spotlight LED provides up to 8 hours runtime
- 180° folding design offers the ultimate in flexible positioning
- Includes both 110 V AC charger and 12 V car charger for added convenience
- Scratch resistant front lens cover
- Dual magnet design for parallel or multi-angle use
- 2 rear hooks for underhood or undercar applications
- UL/CSA Listed

Flashlights/Spotlights/Utility Lights (Rechargeable)



ECUB9500

ECUB9500 Cordless Rechargeable LED Underhood Light (Blue Point®).

- 95 ultra bright LEDs provide 900 lux output at 0.5 m
- Extends from 47 to 71" to cover a wide range of vehicles
- Rubber coated hooks protect paintwork
- 4,400 mAh battery provides 5 hours of constant light output



ECUB6HO

ECUB6HO Cordless Rechargeable LED Underhood Light (Blue Point®).

- 6 high output LEDs provide 1,600 lux light output at 0.5 m
- Over 50% brighter than original cordless under hood light
- Cordless design provides added convenience and safety
- 4,400 mAh battery provides approximately 4 hours of constant light output
- 47 to 71" extendable lightweight aluminum holder covers wide range of vehicles
- Rubber coated hooks protect paintwork from damage
- LED light distribution provides coverage of complete engine bay
- UL®/CSA® listed



ECF495

ECF495 High Output Rechargeable LED Flashlight Kit (Blue Point®).

- Increased brightness and run time with 117 lumen Cree LED
- Body constructed of reinforced polymer nylon for ultra durability
- Rubber molded grip for sure handling
- 2 NiMH rechargeable battery sticks (4.8 V 900 mAh) included
- Battery charger with LED indicator that turns off when fully charged
- UL listed (in US & Canada) AC adaptor and DC adaptor included
- Pushbutton ON/OFF switch
- Convenient carry holster



ECFDUXLED

ECFDUXLED Rechargeable LED Spotlight (Blue Point®).

- 2 high intensity Cree LEDs produce up to 204 lumens
- Heavy duty overmold grips for sure handling
- Trigger On/Off switch with side lock mechanism
- Includes 110 V AC and 12 V DC chargers

ECFH1 AA/AAA Flashlight Holder.

- Magnetic base offers secure hold of AA/AAA flashlights
- Ball joint permits 360° rotation and pivots 70°
- Enables light beam of flashlight to be positioned as needed

ECFH2 D-Cell Flashlight Holder.

- Magnetic base offers secure hold of D cell flashlights
- Ball joint permits 360° rotation and pivots 70°
- Enables light beam of flashlight to be positioned as needed

ECFH3 C-Cell Flashlight Holder.

- Magnetic base offers secure hold of C cell flashlights with width of 3/4 to 1 1/8"
- Ball joint permits 360° rotation and pivots 70°
- Enables light beam of flashlight to be positioned as needed



ECFH1

Flashlight not included.



ECFH3



WARNING



- Do not remove or bypass the grounding prong on any electrical plug
- Read safety precautions on pages W1 to W4

LIGHTING

Utility Lights

Single Tube

ECU4250A 15 W Fluorescent Utility Light.

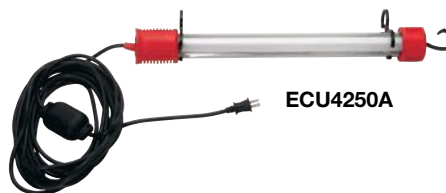
- Uses a single tube 15 W fluorescent bulb (ECU42501)
- 25' 3 conductor extension cord included
- UL®/CUL® listed

ECU415BK 15 W Fluorescent Utility Light.

- Uses a single tube 15 W fluorescent bulb (ECU250A17)
- High impact material in handle and top cap for durability
- Cord length 25'

ECU444AKT Underhood Utility Light.

- Fits hood widths from 47 to 80"
- Uses a single 15 W fluorescent tube (ECU4443A)
- Padded hooks prevent damage to hood
- Flexible 25' cord resists oil and water



ECU4250A



ECU415BK



ECU444AKT

Single Tube Specifications

Stock No.	Lamp Style	Voltage	Bulb Type	Bulb Wattage	Bulb Length, inches	Cord Type	Cord Length, feet	Replacement Bulb	Overall Length, inches
ECU4250A	Tubular	120 V AC	Single	15	17 3/4	18/2 SJTOW	25	ECU42501	23
ECU415BK	Tubular	120 V AC	Single	15	17	18/2 SJTOW	25	ECU250A17	25
ECU444AKT	Tubular	120 V AC	Single	15	41	18/2 SJTOW	25	ECU4443A	44 1/4



ECU350BK (50)
ECU325BK (25)



ECU4325A



ECU4425A (25)
ECU4450A (50)

Twin Tube

ECU325BK 13 W Compact Fluorescent Utility Light.

- High impact material in handle and top cap for durability
- Diffuser optimally spreads light transmission
- Metal hanging hook for flexibility

ECU350BK 13 W Compact Fluorescent Utility Light.

- High impact material in handle and top cap for durability
- Diffuser optimally spreads light transmission
- Metal hanging hook for flexibility

ECU4325A 13 W Compact Fluorescent Utility Light.

- Instant On/Off switch provides "light on command"
- Hanging hooks for portability
- UL/CUL listed

ECU4425A 13 W Angle Head Fluorescent.

- Angle design improves lighting in tight areas
- Instant start cold weather bulb
- 25' subzero premium cord is flexible to -58 °F
- 13 A power outlet in handle



ECU425ABK

ECU4450A 13 W Angle Head Fluorescent.

- Angle design improves lighting in tight areas
- Instant start cold weather bulb
- 50' subzero premium cord is flexible to -58 °F
- 13 A power outlet in handle

ECU425ABK 13 W Angle Head Fluorescent

- Case and lens made from impact resistant proprietary material
- Ratcheting metal hanging hook for better positioning
- 25' cold weather cord is flexible to -58 °F, resists chemicals and abrasions
- Uses ECU325-4 rough service bulb

ECU325-4 Rough Service Bulb.

- Silicon cocoons internal components in base to extend starter life
- Superior durability in harsh conditions
- Fits most twin tube 13 W lights

Twin and Quad Tube Specifications

Stock No.	Lamp Style	Voltage	Bulb Type	Bulb Wattage	Bulb Length, inches	Cord Type	Cord Length, feet	Replacement Bulb	Overall Length, inches
ECU325BK	Tubular	120 V AC	Twin	13	7	18/2 SJTOW	25	ECU325-4	13
ECU350BK	Tubular	120 V AC	Twin	13	7	18/2 SJTOW	50	ECU325-4	13
ECU4325A	Tubular	120 V AC	Twin	13	7	18/2 SJTOW	25	ECU43251A	12 1/2
ECU4425A	Angle Head	120 V AC	Twin	13	7 1/4	16/3 SJEOW	25	ECU43251A	16
ECU425ABK	Angle Head	120 V AC	Twin	13	7	16/3 SJOW	25	ECU325-4	14
ECU4450A	Angle Head	120 V AC	Twin	13	7	16/3 SJTOW	50	ECU43251A	16
ECU4000	Flat Head	120 V AC	Quad	26	7	16/3 SJTOW	25	ECU43251A	16



ECU4000



ECU43251A

Quad Tube

ECU4000 Dual Twin Utility Light.

- 4 tube, 26 W, 13 A fluorescent bulb for high light output
- Comfortable, sure grip handle with fingertip switch
- rounded outlet in handle base
- 25' cord
- UL®/CUL® listed

ECU43251A Replacement Bulb.

- 13 W, twin tube, flicker free cold temperature bulb



ECUR4500A



ECUR2450A



ECURO2350A

Reel Type Utility Lights

ECUR4500A 15 W Heavy Duty Reel Light.

- Cord reel mounts to wall or ceiling
- 360° swivel hook plus 2 horizontal hooks for flexibility
- 23" long, shatter resistant tube assembly and housing
- UL/CUL listed

ECUR2450A Heavy Duty Reel Angle Head Light.

- 13 W fluorescent light on 50' reel
- 13 A, 3 prong outlet in handle
- 180° swivel hook on lamp
- UL/CUL listed

ECURO2350A 13 W Heavy Duty Reel Light.

- Compact 13 W twin tube design
- Cord reel mounts to wall or ceiling
- Automatic switch activates light when cord is extended, deactivates when retracted
- UL/CUL listed

ECRB4430 Incandescent Reel Light (Blue-Point®).

- 75 W incandescent light with 30' reel
- Adjustable cord stop for convenience
- 3 prong grounded outlet for auxiliary power source



ECRB4430



ECUR4000

ECUR4000 26 W Fluorescent Reel Light.

- Dual twin tube, 26 W fluorescent light on 50' cord reel
- 13 A power outlet in handle
- 360° ratcheting swivel hanging hook for multiple location usage
- UL/CUL listed

Reel Type Specifications

Stock No.	Lamp Style	Voltage	Bulb Type	Bulb Wattage	Bulb Length, inches	Cord Type	Cord Length, feet	Power Lead Length, feet	Replacement Bulb	Overall Length, inches
ECUR4500A	Tubular	120 V AC	Single	15	17 3/4	16/3 SJTOW	50	2	ECU42501	23
ECUR2450A	Angle Head	120 V AC	Twin	13	7	16/3 SJTOW	50	2	ECU43251A	16
ECURO2350A	Tubular	120 V AC	Twin	13	7	16/3 SJTOW	50	2	ECU43251A	12 1/2
ECRB4430	Incandescent Metal Shield	120 V AC	Incandescent	75 max.		16/3 SVT	30	2		12
ECUR4000	Twin (2 bulbs)	120 V AC	Twin	26	7	16/3 SJTOW	50	2	ECU43251A	16



WARNING



- Do not remove or bypass the grounding prong on any electrical plug
- Read safety precautions on pages W1 to W4

LIGHTING

Utility Lights



ECU4007

Fluorescent Utility Light

ECU4007 Twin Tube Utility Light.

- 13 W twin tube light works with any standard extension cord
- 360° swivel hook for hanging flexibility
- Replacement bulb is ECU43251A



ECU300



ECU44255A

Utility Light Accessories

ECU300 Magnetic Utility Light Clamp.

- Expandable clamp on a magnetic base
- Can be used with many fluorescent utility lights or "D" cell flashlights

ECU44255A Magnetic Utility Light Clamp.

- Expandable clamp on a magnetic base
- Can be used with many fluorescent utility lights

Extension Cords and Reels



EC267D



EC268D



ECR4300A



ECRB4300

Extension Cords (Blue-Point®)

EC267D Extension Cord.

- 25', 16/3 gauge SJTW cord stays flexible in cold weather
- Oil and water resistant

EC268D Extension Cord.

- 50', 16/3 gauge SJTW cord stays flexible in cold weather
- Oil and water resistant

Multi-Outlet Strips and Reels

ECR4300A 50 Multi Outlet Cord Reel.

- Reel mounts on wall or ceiling with 180° swivel bracket
- 2' power cord has 3 grounded outlets
- Includes mounting hardware

ECRB4300 30 Multi Outlet Cord Reel (Blue-Point).

- Reel mounts on wall or ceiling with 180° swivel bracket
- 2' power cord has 3 grounded outlets
- Includes mounting hardware

Flexible Lights/Magnifiers



ECF1600



YA5100B



YA537

Flexible Lights (Blue-Point)

ECF1600 Bendable Light.

- 10" flexible shaft with high intensity lamp
- Heavy duty barrel handle and switch
- Includes (2) AA batteries

YA5100B Bendable Light.

- 15" flexible shaft with 24" extension cover for added reach
- Brilliant krypton lamp runs on (2) AA cells

YA5100-2 Flashlight Bulb.

- Replacement bulb for YA5100B

YA5100B-1 Flashlight Switch.

- Replacement switch for YA5100B

Magnifier

YA537 Pocket Magnifier.

- Folding magnifier includes dual 3x lenses for combined 6x effect



ECFB960



ECF28

ECFB960 60 Lumen High Output 9" Flex Light (Blue Point).

- High output flex light produces 60 lumens
- 9" flexible Coax cable for extended reach
- Positive pushbutton switch for added convenience
- Durable and lightweight aluminum barrel
- Includes (2) AA alkaline batteries
- High quality pocket clip for added utility
- Excellent light projection due to high quality, high output LED
- Rubberized flex cable for longer life and durability
- Overall length 16" including flex light barrel
- 2 hour run time

ECF28 Slim Flex Light (Blue Point).

- Slim Flex Light gets into tight spaces with extended reach and features a high quality 100,000 hour LED
- Insulated flexible shaft allows for over 20" total reach
- Anodized aluminum barrel has a tail switch designed for 1 hand operation
- Pocket clip for added utility
- Rubberized flex cable for longer life and durability
- End cap switch allows constant on and momentary on features
- Overall length 23.5" including flex light barrel
- Flex cable length 14.5"
- Uses (3) AAA alkaline cell batteries

- Do not remove or bypass the grounding prong on any electrical plug
- Read safety precautions on pages W1 to W4



Make Complex Jobs Simple.

Snap-on is known for innovation—and you'll find it throughout the entire selection of shop equipment. Whether it's reducing the time it takes to change a bushing, or change the way you think about body work, Snap-on simplifies the job.



Abrasive blasting equipment — Stationary and portable blasting equipment designed to handle a wide range of jobs. From hand held units to industrial-sized cabinets, Snap-on has what your shop needs to get the job done.

The basics — To build the business, you need a foundation. Creepers, air compressors, fluids, lubrication and measuring tools are a good place to start.

Lubrication	537
Engine Service	540
Valve	549
Cylinder	553
Piston	554
Bushing/Seal	555
Fender Covers	558
Creepers	559
Measuring	561
Mirrors And Pick Up Tools	567
Brakes	569
Body	577
Paint Spray	588
Abrasive Blast Systems	591
Vises/C-Clamps	594
Work Benches	596
Presses	597
Air Compressors	599



FLUID MAINTENANCE

Fluid Transfer Service Equipment



EEFS505012



EEFS304AC4



EEFS106AC2



VAC201



VAC300

Fuel System Maintenance

EEFS505012 Fuel System Cleaning Fluid (Blue-Point®).

(12) 17 oz cans of fuel system cleaning fluid for Fuel System Decarbonizer EEFS505A.

EEFS304AC4 Engine Cleaner.

- Use an all around cleaner, as a top engine cleaner and in cleaning machines
- Removes carbon, dirt, gum and varnish harmful to critical engine components
- Detergent based solution is not harmful to critical engine components
- Case of 32 oz bottles
- Use with EEFS100 series of decarbonizing equipment

EEFS106AC2 Diesel Engine Detergent.

- Professional detergent for cleaning diesel engines
- (4) 32 oz bottles
- Use to remove contaminants in engines and fuel systems
- Includes (6) units of 3 step cleaner
- Each unit include (1) bottle of air intake cleaner, (1) bottle of combustion chamber cleaner and (1) bottle of fuel conditioner
- Use with EEFS103 series of diesel tune decarbonizing equipment

EEFS308A5. Replacement filter pack for EEFS305A FuelKare™ Fuel Service System.

AEC061004011. (4) 1 L bottles of fuel system cleaning solution for the EEFS305A FuelKare Fuel Service System.

Fluid Evacuators and Transfer Pumps

Easily remove engine gear and transmission oil, coolant and brake fluids. Unit creates vacuum, providing a clean, fast and simple way to evacuate or dispense a wide range of fluids.

8 L auto shut off prevents overflow. 2.3 gal (8.8 L) total capacity. Durable polyethylene construction is impervious to automotive and household chemicals.

VAC201 Manual Fluid Evacuator/Dispenser.

- No electrical or compressed air required
- Sturdy base with exterior pump helps prevent tipping
- Complete system includes manual fluid evacuator, main hose assembly (5/16 I.D. x 54" long) plus 2 rigid dipstick tubes for engine oil removal (3/16 I.D. x 34" and 1/8 I.D. x 34")

VAC300 Pneumatic Fluid Evacuator.

- Quiet operation results from air muffler on the Venturi® pump
- Unit can be used away from air source by creating a vacuum, closing both shut off valves and transporting unit to the job
- Connect tubing and release valves to evacuate fluid
- Complete system includes air operated fluid evacuator with Venturi and air shutoff valve on base, main pour spout connector, main hose assembly (5/16 I.D. x 58" long), brake bleeding hose assembly with in line fluid control (1/4 I.D. x 60" long) plus 2 rigid dipstick tubes for engine oil removal (3/16 I.D. x 34 and 1/8 I.D. x 34")

TECHNICAL SUPPORT

1-877-776-8486

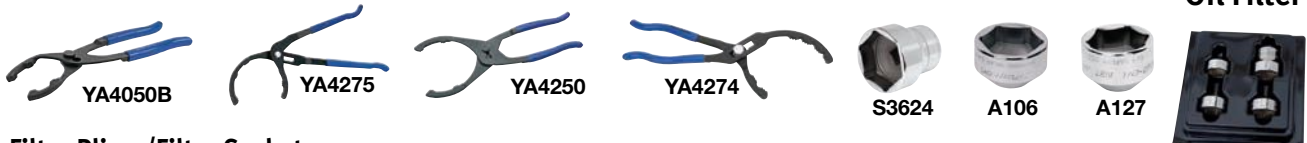


FLUIDPUMP

FLUIDPUMP

Fluid Transfer Pump.

- Transfer/siphon all types of fluids including coolant, oil, transmission fluid and water
- Use to inflate sports balls, bicycle tires, flotation devices and more
- Durable, noncorrosive polyethylene
- Includes pump, (2) 4' lengths of fluid hose, (2) intake/discharge hose connectors, air pressure hose, dipstick tube and dipstick/liquid hose adaptor



Filter Pliers/Filter Sockets

YA4050B Oil Filter Pliers (Blue-Point®).

- rips oil filters for easier removal
- Jaws are offset 20° from handle to increase accessibility
- Jaw opening range of 2 1/4 to 4"
- 12" long

YA4275 Oil Filter Pliers (Blue-Point).

- Use on filters from 4 1/4 to 7" (108-178 mm) diameter
- Spring action size adjustment assures a solid grip on filter
- Offset handle offers increased accessibility
- Heavy duty forged levers
- Cushioned grips for comfort
- Industrial black finish
- Overall length 19"

Applications: Include truck, tractor and high torque diesel engines

YA4250 Oil Filter Pliers (Blue-Point).

- Slip joint design provides jaw opening range of 3 5/8 to 6"
- 12" long

YA4274 Oil Filter Pliers (Blue-Point).

- Use on filters from 2 1/2 to 5 1/4" diameter
- Spring action size adjustment ensures a solid grip
- Offset handle offers increased accessibility
- Heavy duty forged levers
- Cushioned grips for comfort
- Industrial black finish
- Overall length 13 1/2"

Applications: Use on automobiles and trucks

A106 Oil Filter Socket.

- Low profile (1.68 O.D. x 1.04" long) 6 point design to remove the plastic oil filter on M® Ecotec, 2.0, 2.2 and 2.4 L, 4 cylinder engines
- Features the Flank Drive® wrenching system
- Chrome finish for longer life and easy clean up
- Wrench size: 1 1/4" (32 mm); 3/8" square drive

Applications: Saturn®: L-Series (2001), Ion, and Vue (2002 and later), GM: Cavalier, Sunfire, Grand Am, Sonoma, S10, Alero, (2002 and later), Pontiac®: 6 and Solstice (2006), Chevrolet®: HHR, Cobalt, Cobalt SS (2006), Malibu (2002 to 2006), Saab®, some general applications

YA4022 Long Reach Oil Filter Pliers (Blue-Point).

- Removes stubborn and overtightened oil, fuel and hydraulic filters plus fuel sending units and more
- Easy to maneuver around hot exhaust manifolds
- 23" long with tremendous holding power
- 32 teeth jaws adjust to 2 sizes for optimum grip

S3624 Filter Flip Socket.

- One tool will remove/install all 3 filter caps on Ford® 6.0 L power stroke diesel powered vehicles like super duty series pickups, Econoline vans and Excursions
- Use for removal and installation of the oil filter cap plus primary and secondary fuel filter caps on these vehicles
- Requires 3/8" drive extension (FX1 or FXWP1 1-1/2" long)
- 3/8" drive; Not for impact use
- Additional 24 mm Applications: Buick®: VVT-V6 Rendezvous Ultra, LaCrosse CSX, Cadillac®: VVT-V6 CTS, STS, SRX, Saturn: L-3000 V6
- Additional 35/36 mm Applications: Audi/VW®: VR6 engine, BMW®: 6, 8 and 12 cylinder engines, Mercedes®: diesel engines, Mini-Cooper®, Volvo®: 40 and 50 series, XC90 with 3.2 L, 6-cylinder engine
- 3/8" drive, wrench sizes: 24 and 35/36 mm; Flank drive wrenching system, O.D. major: 1.80" (45.7 mm); O.D. minor: 1.38" (34.9 mm); Length: 1.73" (43.9 mm)

A127 Oil Filter Socket.

- Remove and install 27 mm (1 1/16") oil filters on 2003 and later Mercedes 1.8 L 4 cylinder engines
- Additional applications: aftermarket oil filters with 1" nut at the top of canister
- 1 1/16" wrench size, 3/8" drive

OFSKIT Oil/Fuel Filter Socket Set.

- Includes: A127 and A106 oil filter sockets, S3624 filter flip socket and A129 fuel filter socket for Cummins® Diesel (4 pcs) in storage tray

Applications: S3624, A127 and A106 are listed on this page; A129 is listed on p. 238



Oil Filter Wrenches

Stock No.	Size	Steps	Flats	Style	Sq. Dr., inches	Application
YA995*	3"	2	15	Cup	3/8	Fram, AC, Wicks, NAPA, Sears, Motorcraft, Hastings, and Baldwin filters. Has 1" external hex
YA996*	76/80 mm	2	14/15	Cup	3/8	OEM and Purolator filters on VW, Nissan, and Toyota. Has 1" external hex
A91E				Strap	3/8, 1/2	Large diameter oil filters 1 to 6". Includes both 3/8" and 1/2" square drives
YA342C*				Band	1/2	For 4 5/8 to 5 1/4" diameter filters
OFW12418*				Band	1/2	For 4 1/8 to 4 21/32" (105 to 118 mm) oil filters
OFW125532*				Band	1/2	For 5 5/32 to 5 21/32" (130 to 143 mm) oil filters. Similar to OFW12418
GA333C*				Band	Handle	For 2 7/8 to 3 1/4" diameter oil filters
GA340A*				Band	Handle	For 3 1/2 to 3 7/8" diameter oil filters. Similar to GA333C above
YA341A*				Band	Handle	For 4 1/8 to 4 7/16" diameter oil filters. Similar to GA333C above
FWA6296A*	62/96 mm			Adjustable	3/8	Adjustable filter wrench for 62 to 96 mm diameter oil filters. 3/8" square drive, 3/4" external hex
FWA62121A*	62/121 mm			Adjustable	3/8	Adjustable filter wrench for 62 to 121 mm diameter oil filters. 3/8" square drive, 3/4" external hex
FW656714A*	65/67 mm	2	14	Cup	3/8	Fram-PH4386, PH4967, PH6017, PH6018, and PH6607
FW7614A*	76 mm	1	14	Cup	3/8	Champion, Champ, Lee, Purolator, Mopar, VW, Porsche, BMW, Mercedes
FW9315A*	93 mm	1	15	Cup	3/8	Casite, Champ, Champion, GM, Fram, Hastings, Purolator, Wix, Nissan, VW, Porsche, Renault
FW757715A*	75/77 mm	2	15	Cup	3/8	NAPA, AC Delco, Castrol, STP, Penske
FW7630A*	76 mm	1	30	Cup	3/8	Fram, IAPCO, Motorcraft, Parts Plus, Pennzoil
FW8015*	80 mm	1	15	Cup	3/8	Motorcraft, Parts Plus, Penska, Purolator

*Blue-Point



WARNING



• Read safety precautions on pages W1 to W4

Oil Filter



Swivel Oil Filter Wrenches (Blue-Point®)

OFW1 Oil Filter Wrench.

- Fits small oil and fuel filters 2 3/8 to 2 5/8"

OFW2 Oil Filter Wrench.

- Fits smaller filter size on many U.S. and imported vehicles 2 7/8 to 3 1/4"

OFW3 Oil Filter Wrench.

- Fits most popular 3.625" filters 3 1/2 to 3 7/8"

OFW4 Oil Filter Wrench.

- Fits most tractors and other farm implement equipment 4 1/8 to 4 1/2"

OFW4KT Oil Filter Wrench Set.

- Set includes OFW1, OFW2, OFW3 and OFW4 Swivel Oil Filter Wrenches



OFW4KT



CRUSH1A

FWK7A Oil Filter Wrench Set (Blue-Point).

- Wrenches in set cover 95% of U.S. and import automobile and light truck oil filters
- Storage/carrying case keeps wrenches together for quick access
- Includes laminated application chart
- FWK7A set includes FW656714A, FW757715A, FW7614A, FW7630A, FW8015, FW9315A and FWA62121A oil filter wrenches

Oil Filter Crushers (Blue-Point)

CRUSH1A Oil Filter Crusher.

- Removes approximately 95% of excess oil from spent filters
- Features self lubricating seal
- 10,000 lb of crushing force with simple hookup to 60 to 120 psi air line
- 10 to 15 second time cycle
- Pivoting door prevents oil from dripping into work area when loading or unloading filters
- Won't operate when door is open
- Crushing chamber is 8 1/2 H x 6" square
- Height 23"; Weight 70 lb

CRUSH1EX100 Air Filter.



S9615A

Pan Plug Wrench

S9615A 12 Point Fractional/Metric Box Wrench.

- 9/16" and 15 mm 12 point box ends fit most popular M® drain plugs
- 10" offset at each end for maximum clearance
- Both box ends feature Flank Drive® wrenching system
- 9 23/32" long

Grease and Oil

Drains

YA743 Waste Oil Drain.

- Fits standard 16 gal drum
- Includes: float gauge in drum cover, telescopic drain bowl adjustable from 42 3/4 to 70" and roll around base (drum not included)

YA749 Drain.

- 24 1/2" diameter
- Fits 6" or larger drain bowls
- Prevents spillage when removing transmission pans



YA749



YA743

Drum Plug

A172A Drum Plug Socket.

- One socket removes virtually all screw in drum plugs or caps
- Spring loaded inner wrench handles smaller plugs and recesses automatically when removing large plugs
- Use with a 1/2" drive ratchet or impact wrench



A172A

Oilers (Blue-Point)

OC5A Oiler.

- 5 1/2" small pressure oiler has a long, tapered spout with a screw on tip
- 1 7/8" O.D.
- Includes base holder
- 5 oz capacity

OCF5 Oiler.

- Similar to OC5A Oiler with a flexible spout



OC5A

OCF5

Oil Filter



FUNN1 FUNN2 FUNN15 GA96B OFTOY38 OFHON33 OFGMFORD OFHARLEY OFHD

Funnels/Spouts

Stock No.	Size	Neck Style	Screw Caps	Color
FUNN1*	1 pint	Small	•	Orange
FUNN2*	1.25 qt	Large	•	Blue
FUNN15*	1.5 qt	Large	•	Red

*Blue-Point®

GA96B Transmission Filler (Blue-Point). 8 1/2" oval funnel with filter screen. 30" long.

OFTOY38 Oil Filler for Toyota®/Lexus®/Scion®. Fits all Toyota, Lexus and Scion models (except Toyota Prius) with threaded oil filler cap. Prevents unwanted mess by sealing onto filler neck.

OFHON33 Threaded Oil Filler.

- Prevents unwanted mess by sealing onto filler neck

Applications:

Honda® (Accord, Civic, Element, Fit, S2000) vehicles; Acura® (All models except MDX and RDX); Nissan® (most models); Dodge® Cummins® Turbo Diesels from 2001 to 2008; Ford® Turbo Diesel trucks (9.0, 6.4, 6.9 and 7.3 L)

OFGMFORD Threaded Oil Filler. Applications: Chevy: Cobalt, Silverado, Tahoe, Trailblazer and Vans; GMC®: Sierra, Envoy; Pontiac®: Grand Prix, G6; Saturn®: SL1; Cadillac®: CTS; Ford: Explorer, F150, Mustang; Mercury®: Mountaineer. Prevents unwanted mess by sealing onto filler neck.

OFHARLEY Oil Filler for Harley Davidson® Motorcycles.

- Prevents any unwanted mess; fastens and seals onto filler neck
- No need to hold funnel while pouring in oil
- Can fill funnel with almost 1 qt of oil
- Made of strong ABS plastic
- Smooth surface will not scratch painted surface
- For Harley Davidson Touring bikes and Dyna® series motorcycles 2007 to present

OFHD Oil Filler for Harley Davidson Motorcycles.

- Oil filler for 1999-2006 Harley Davidson Touring Motorcycles with the "Push in Style" oil caps
- Prevents any unwanted mess; fastens and seals onto filler neck
- No need to hold funnel while pouring in oil
- Can fill funnel with almost 1 qt of oil
- Made of strong ABS plastic
- Smooth surface will not scratch painted surface



Grease Guns

	Stock No.	YA734A*	YA728A*	YA4190A*	GA471*	GA472*	GA473A*
Manual	Specification	Pistol Grip	Lever	Mini	Pistol Grip	Pistol Grip	Lever
	PSI	6,000	6,000		4,500	5,000	10,000
	Loading	Bulk or Cartridge	Bulk or Cartridge	Cartridge	Bulk, Cartridge, or Filler Pump	Bulk, Cartridge, or Filler Pump	Bulk, Cartridge, or Filler Pump
	Capacity	16 oz Bulk and 14 1/2 oz Cartridge	16 oz Bulk and 14 1/2 oz Cartridge	3 oz	3 oz	14 oz	14 oz
	Flexible Hose	18"	18"				
	Rigid Extension	6"	6"		5-1/2"	3 1/2"	5 3/8"
	Nozzle				8 1/4"	13 1/4"	19 1/4"

	Stock No.	YA775	YA771B*	YA772B*
Air Powered	PSI	6,000	6,000	4,000
	Air Operating PSI	100	35 - 80	40 - 100
	Pump Ratio	60:1	40:1	40:1
	Loading	Bulk, Filler Pump, or Cartridge	Bulk, Filler Pump, or Cartridge	Bulk, Filler Pump, or Cartridge
	Capacity	14 oz Cartridge	14 oz Cartridge	14 oz Cartridge
	Flexible Hose		18"	18"
	Rigid Extension	7 1/2"	6"	6"

*Blue-Point



WARNING



• Read safety precautions on pages W1 to W4

Grease and Oil



YA7500

Dispensing Accessories (Blue-Point®)

YA7500 Grease Dispensing Accessory Pack.

- Includes YA760-YA757 (except YA750) (10pcs) in a storage tray

YA760 Universal Swivel.

- High pressure swivel
- 1/2"-27 male x 1/4" NPT(m) threads
- 5,000 psi maximum working pressure

YA761 Needle Nozzle Coupler.

- This is the YA750 with a locking sleeve adaptor for quick attachment to a hydraulic coupler

YA751 Flex Whip Hose.

- For powered and hand operated grease guns
- 1/8" NPT(m) both ends
- 4,500 maximum psi
- 12" long

YA752 Flex Whip Hose.

- 18" long version of YA751

YA758 Flex Whip Hose.

- For hand operated grease guns only
- 1/8" NPT(m) both ends
- 18" long

YA753 Heavy Duty Coupler.

- 1/8" NPT(f) thread
- Fits all hydraulic type grease fittings

YA755 Coupler.

- 1/8" NPT(f) thread
- Fits all hydraulic type grease fittings

YA756 Extension Coupler.

- Lubricates recessed fittings
- Locking sleeve adaptor allows quick attachment to hydraulic coupler of any control valve or lever gun
- 6" long



UFREE1

Grease Fitting Cleaner

UFREE1 Grease Fitting Cleaning Tool.

- Quickly and easily frees up joints and fittings for proper greasing and lubrication
- Inject light viscosity oil into the grease joint via the grease fitting to break up and remove dirt, rust and debris
- Pump in new grease after freeing the joint
- Includes injection cleaning tool, 4 3/4" long flexible hose to access tight places and storage case



A180A



YA470B



YA742



YA747



YA801

YA747 Grease Control Valve.

- 1/4" NPT(f) inlet, 7,500 psi maximum working pressure
- Includes 6" extension tube and YA753 coupler

YA801 Needle Type Adaptor.

- For universal joint fittings, water pumps and metal covered springs
- 4 7/8" long

YA754 Swivel Coupler.

- 1/8" NPT(f) thread
- Swivels 360, locks in position every 45

YA757 Angle Lube Adaptor.

- 90° head allows fast and complete lubrication of steering and suspension systems on late model front wheel drive vehicles
- 4 1/2" long

YA799 Right Angle Grease Gun Adaptor.

- Use on Chrysler®, Dodge® and Plymouth® FWD vehicle ball joints and other restricted access locations

GA472-2 Grease Fitting Coupler.

- Attach to any standard grease gun
- Metal construction with industrial black finish

YA750 Needle Nozzle.

- 1/8" NPT(f) thread
- 2 3/4" long

GA472-9 Flexible Polybraid Hose.

- Features spring check valve
- Oil, grease and solvent resistant with brass end fittings



YA746



YA745A

Oil Spray and Suction Guns

YA746 Oil Spray Gun.

- Siphon type
- Use for spraying lubricating oils, cutting oils and cooling oils
- Includes 6' vinyl suction hose with strainer

YA745A Oil Spray Gun (Blue-Point).

- 16 oz capacity
- Fast, clean method for removing or adding transmission and gear oil
- Special follower is impervious to oil, grease and water
- Flexible nozzle

Bearing Packers

A180A Manual Bearing Packer.

- Simultaneously pressure packs inner and outer wheel bearings
- 3/4" minimum ID and 4" maximum O.D.
- Use with pressurized lube equipment or hand grease gun
- Includes dust cover

YA470B Manual Bearing Packer (Blue-Point).

- Packs 50 to 65 bearings with 1 grease filling
- Apply manual pressure to flush and pack bearing with grease
- Includes dust cover
- 4 1/2" high

YA742 Manual Bearing Packer.

- Unit features large packer head
- Handles bearings to 9 1/2" O.D. and minimum 9/16" I.D.
- Includes adaptor to service smaller bearings of 1 to 1 3/4" O.D.

Grease and Oil



YA739



YA737



YA738



YA736



YA759

Grease and Gear Oil Pumps/Manual

YA739 Manual Gear Oil Pump.

- Fits any 25 to 50 lb original refinery container
- Delivers 1 oz per stroke using SAE 90 gear oil at 70 °F
- Includes 5' of 1/2" low pressure hose with dispensing nozzle

YA737 Manual Operating Grease Pump.

- Clamps securely to any 25 to 50 lb original refinery container
- Handles any ball or roller bearing with 5/8 to 1 1/2" I.D. and 3 1/4" maximum O.D.
- Primes and pumps even when using heavy grease at low temperatures
- Follower plate prevents funneling of grease

YA738 Manual Gear Oil Pump.

- Fits any 120 lb original refinery container
- Powerful 50:1 ratio pump with 20 cu in displacement
- Includes rollaround base, straight swivel, 7' of 1/4" high pressure hose, quick connect air coupler, follower plate, YA747 grease control valve, and YA760 universal swivel

Grease Pumps/Air

YA736 Air Powered Grease Pump.

- Fits any 20 to 50 lb original refinery container
- Powerful 50:1 ratio pump utilizes 20 cu in displacement
- Includes: 6' of 1/4" high pressure hose, quick connect air coupler, follower plate, YA747 grease control valve, and YA760 universal swivel

YA759 Air Powered Grease Pump.

- 50:1 ratio pump
- Uses 120 lb container size and handles all grades of lubricant
- Features internal muffler for quiet operation and a prelubricated air motor requiring no external oiler
- Exclusive microlapped hardened steel air valve and seat to assure a long and productive service life, no packings to wear out
- Shovel type foot valve adds mechanical priming to normal suction
- Casters offer unit mobility
- Does not include barrel



YA762



PBT5X29

Dollies

YA762 Band Dolly.

- Provides mobility for 25 to 50 lb original refinery containers
- Includes jam swivel casters and screw clamp for secure adjustment

Transmission Tables

PBT5X29 Transmission Table (Shown with Optional Drawer).

- 5' long
- PBT2120 Drawer.
- Optional drawer
- 20 x 20 x 5"

Service Tools



ECK9



YA8661



YA8662

Engine Calibration and Setup Kit (Blue-Point®)

ECK9 Engine Calibration and Setup Kit.

- Includes: YA871/YA870 Whistle Alert™ tools, YA866/YAL866 TDC indicators, YA868 compression gauge extension, YA865 engine lock and YA8661/YA8662 spark plug hole thread adaptors

YA871 Whistle Alert (Flexible).

- Insert *Whistle Alert* into any 14 mm spark plug hole, turn the engine over and listen for the whistle to locate top dead center for the compression stroke

YA870 Whistle Alert (Rigid).

- Same as YA871 except it can also be used with YA866 compression gauge extension

YA8661 Spark Plug Hole Adaptor.

- Adapts the 14 mm thread on YA866/YAL866 TDC Indicators, YA868 compression gauge extension and YA865 engine lock to accommodate 18 mm spark plug threads

YA8662 Spark Plug Hole Adaptor.

- Adapts the 14 mm thread on YA866/YAL866 TDC Indicators and YA868 compression gauge extension to accommodate 12 mm spark plug threads



WARNING



• Read safety precautions on pages W1 to W4

ENGINE SERVICE

Service Tools



YA9680



YA9730



YA9730-5



ML5000



ML6000



CC100



CC100PK



ML6000COMBO



AS4394

Timing

YA9680 Camshaft Pulley Tool (Blue-Point®).

- Designed to hold the camshaft pulley in place while turning the center shaft bolt
- Extremely useful on transverse mounted V6 engines such as Nissan® Maxima/V 30 engine and Toyota® Camry/3VXFE and 1MZFE engine
- Rear pulleys on these vehicles are located in close proximity to the shock tower making it difficult to remove/replace the center shaft without this tool

YA9730 Timing Belt Tensioner Compressor (Blue-Point).

- For 1995 and later T-100, Tacoma and 4Runner
- Turn square compress tensioner, then install locking pin (YA9730-5 included with YA9730)

ML5000 DOHC Lock Tool (Blue-Point).

- Locks cam shaft sprockets in place to preserve engine timing during belt or chain replacement
- Knurled pins on unit lock on to the groove on the inside of the cam wheel
- Unit base is constructed from anodized aluminum
- Pins are steel
- Works with most import and U.S. cars and light trucks

ML6000 Cam Lock Tool/Timing Gear Clamp (Blue-Point).

- Prevent engine damage resulting from incorrect timing
- Maintain valve timing during belt replacement on twin and quad cam engines
- Compact design allows access in transverse engines
- Fits timing gear diameters from approximately 4 to 6" (101 to 152 mm)
- Fits gear spacing approximately 0.06 to 3" (1.6 to 76 mm)

CC100 Single Cam Clamp (Blue-Point).

- Single cam clamp can be used on engines where the dual clamp ML6000 will not fit
- Compact design permits easy operation in confined engine areas
- Prevent engine damage resulting from incorrect timing
- Maintain valve timing during belt replacement on twin and quad cam engines
- Simple and easy to use
- Manufactured from high strength industrial polymers which will not corrode or damage engine pulleys

CC100PK Single Cam Clamp Set (Blue-Point).

- Set of (4) CC100 single cam clamps in storage tray
- ML6000COMBO Cam Clamp Set (Blue-Point).
- Includes 4 CC100 single cam clamps and (1) ML6000 dual cam clamp in storage tray

AS4394 Camshaft Sprocket Holding Tool.

- Use as a counter holder when loosening or tightening sprocket retainer bolts
- Used on all models with sprocket holes larger than 1/2" (12 mm)

AS4145 Engine Timing Setting/Locking Kit for GM® Vehicles.

- Avoid unnecessary retiming
- Covers both the locking of the quad cams and the crankshaft
- Includes the special timing gauge essential for this application

Applications:

V6 Cadillac® Catera, Saab® 900, 9000 and 9.5, Saturn® L300 vehicles

AS4645 Engine Timing Setting/Locking Kit.

- Comprehensive selection of special service tools for maintaining engine timing position during timing belt replacement and valve train service work

Applications:

Chrysler®: Cirrus, Sebring convertible 2.5 V6, Daytona Shelby, Dynasty E Class, Laser, LeBaron vehicles

Dodge®: Avenger 2.5 V6, Colt Wagon 2.4, Stealth 4WD 3.0 V6, Stratus

2.5 V6, Colt 1.6, Aries, Caravan, Dakota, Daytona/Shelby, Dynasty

Lancer, Mini Ram Van, Omni, Shadow, Spirit 2.2/2.5 vehicles

Plymouth®: Colt Vista 2.4, Colt 1.6/200, Laser 2.0, Reliant, Acclaim,

Caravelle, Duster, Horizon, Scamp, Sundance, TC3, Turismo,

Voyager vehicles

Acura®: 2.2 CL, 2.3 CL, 3.0 CL, 3.2 TL vehicles

Honda®: Accord 2.2, 2.3, 3.0 V6; Prelude 2.2, 2.2VTEC, 2.3;

Odyssey 2.2, 2.3, 3.5 V6 vehicles

Hyundai®: Elantra 1.6 - 1.8, Sonata 2.0 vehicles

Isuzu®: Oasis 2.2 - 2.3, Amigo 2.2, Rodeo 2.2 vehicles

Mitsubishi®: Diamante 3.0 V6, 3.5 V6; 3000 T 3.0 V6;

Eclipse/Spyder 2.0, 2.4, 3.0; alant 2.0, 2.4, 3.0; Expo 2.4;

Montero Sport 2.4, 3.0, 3.5 V6 vehicles



AS4145



AS4645

AS4660 Master Engine Timing Setting/Locking Kit.

A comprehensive selection of special service tools for maintaining engine timing position during timing belt replacement and valve train service work.

Applications for GM vehicles:

Chevrolet®: Lumina, Monte Carlo, 3.4 V6

Oldsmobile®: Cutlass Supreme, 3.4 V6

Pontiac®: Grand Am, Le Mans, Sunbird 2.0, Grand Prix 3.4 V6

Daewoo®: Lanos, Nubria 1.6

Applications for Ford® vehicles:

Ford®: Contour, Escort Z2X, Escape, Focus, Probe 2.0, Ranger 2.5,

Taurus 3.2 V6

Mercury®: Mystique 2.0, Cougar 2.0

Mazda®: B2300, B2500

Applications for Chrysler/Dodge® vehicles:

Chrysler: Cirrus, Sebring convertible 2.5 V6, Daytona Shelby, Dynasty E Class, Laser, LeBaron

Dodge: Avenger 2.5 V6, Colt wagon 2.4, Stealth 4WD 3.0 V6, Stratus

2.5 V6, Colt 1.6, Aries, Caravan, Dakota, Daytona/Shelby, Dynasty

Lancer, Mini Ram Van, Omni, Shadow, Spirit 2.2/2.5

Plymouth: Colt Vista 2.4, Colt 1.6/200, Laser 2.0, Reliant, Acclaim,

Caravelle, Duster, Horizon, Scamp, Sundance, TC3, Turismo, Voyager

Applications for Asian Imports:

Acura: 2.2 CL, 2.3 CL, 3.0 CL, 3.2 TL

Honda: Accord 2.2, 2.3, 3.0 V6; Prelude 2.2, 2.2VTEC, 2.3; Odyssey

2.2, 2.3, 3.5 V6

Hyundai: Elantra 1.6-1.8, Sonata 2.0

Isuzu: Oasis 2.2-2.3, Amigo 2.2, Rodeo 2.2

Mitsubishi: Diamante 3.0 V6, 3.5 V6; 3000 T 3.0 V6; Eclipse/Spyder

2.0, 2.4, 3.0; alant 2.0, 2.4, 3.0; Expo 2.4; Montero Sport 2.4, 3.0,

3.5 V6



AS4660



WARNING



• Read safety precautions on pages W1 to W2

Service Tools



EEPV507

Oil Pressure/Oil Pump

EEPV507 Oil Pressure Gauge Set.

- Use on diesel and gasoline engines
- Includes standard and metric adaptors for most popular U.S. and import cars, trucks, tractors and stationary engines
- Features bright, easy to read gauge with red protective boot

Part Number	Description
EEPV5F-1	2" Pipe Nipple
EEPV5F-2	1/4" M x 1/8" F Hex Bushing
EEPV5F-3	3/8" M x 1/8" F Hex Bushing
EEPV5F-4	1/8" FNPT Coupling
EEPV5F-5	1/8" M x 1/8" F Street Enbow
EEPV5F-6	1/8-28 BSPT
EEPV5F-7	M10 x 1.0 Tapered Thread
EEPV5F-8	M10 x 1.0 Adaptor
EEPV5F-9	M10 x 1.25 Adaptor
EEPV5F-10	M12 x 1.5 Adaptor
EEPV5F-11	M12 x 1.75 Adaptor
EEPV5F-12	M14 x 1.5 Adaptor
EEPV5F-13	M16 x 1.5 Adaptor
EEPV5F-14	M18 x 1.5 Adaptor
EEPV5F-15	5/16-24 Adaptor
EEPV5F-16	7/16-20 Adaptor
EEPV5F-0	Male Quick Connect Plug
EEPV5-100G	Gauge and Boot
EEPV5-B00T1	Gauge Boot
EEPV507-H	Hose Assembly
EEPV507-PB	Plastic Box - not shown



A121A



A119B



A120



S6152



YA6555

A121A Oil Pressure Sender Switch Socket.

- For 1987 and later Ford®, M® and Chrysler® vehicles
- 1 3/16", 12 point wrench size, 3/8" drive
- 3 11/16" long

A119B Oil Pressure Sender Switch Socket.

- For 1986 and earlier Ford, GM and Chrysler vehicles
- 1 1/16" special wrench configuration, 3/8" drive
- 2 1/16" long

A120 Oil Pressure Sender Switch Socket.

- For 1987 and later Ford, GM and Chrysler vehicles
- Can also be used for 1999 Mitsubishi® Eclipse with the 2L DOC nonturbo 420A engine
- Same design as A119B but longer
- 1 1/16" special wrench configuration, 3/8" drive
- 3 11/16" long

S6152 Oil Pressure Sender Switch Crowfoot Wrench.

- Same applications as A119B but designed for switches with difficult access
- 1 1/16" wrench opening, 3/8" drive

YA6555 Oil Pump Removal Tool for GM Vehicles (Blue-Point®).

- Designed to work on most GM V6 engines
 - No need to remove the intake manifold
 - Makes removal of the oil pump drive fast and easy
- Applications: GM 2.8 L V6 (1987 to 1989), 3.1 L V6 (1990 to 1994), 3100 V6 (1994 to 2005), 3.4 L V6 (1999 and later)



PMP410A



PMM410A



S5902

Drain Plugs

PMP410A Internal Metric Pipe Plug Socket.

- 10 mm female square
- For removing or replacing standard transmission drain plug
- 3/8" drive, 3/4" O.D., 1" long
- Female pipe plug socket (for Renault® LeCar)

PMM410A External Pipe Plug Socket.

- 10 mm male square
- For removing or replacing oil pan plug
- 3/8" drive, 11/16" O.D., 1" long

S5902 Oil/Transmission Plug Wrench.

- Box ends are 17 mm, 6 point and 21 mm, 12 point
- Designed for transmission drain plugs in VW® vehicles
- 10 1/4" long



Cylinder Head (Blue-Point®)

GDCT16 Combustion Leak Tester.

- Provides an easy and quick way to diagnose engine overheating problems
- Checks for leaks between the combustion chamber and the cooling system
- Test head and gasket for combustion leaks before removing the radiator
- Double chamber in testing unit provides a high level of accuracy
- For use on water cooled gas and diesel engines
- Kit includes complete test chamber, 16 oz bottle of testing fluid and instructions

GDCT161 Leak Detector Fluid.

- 16 oz bottle of leak testing fluid for the GDCT16 combustion leak tester

S6132A Metric Valve Cover Bolt Socket.

- For M® vehicles, 1976 and later Honda® vehicles and other import and U.S. vehicles
- 10 mm, 12 point wrench size
- Allows access to head bolts, valve and rocker covers and oil pan bolts
- Deep clearance for bolts with extended tip as used on spark plug wire harness
- 3/8" drive; 11/16" O.D.
- 4 1/8" long

S6160 Extra Long Impact Head Bolt Socket.

- Use on 1986 and later Nissan® engines with 12 mm head bolts
- 8" length reaches past cam and rocker assembly to service head bolts
- Thin profile socket and shank will reach through the access hole and past overhead camshaft
- Additional high torque applications: removal and installation of universal joint flange bolts on Ford®/Mercury® vehicles such as Mustang, Crown Victoria and Lincoln plus Ford® Explorer, Ranger and F150/F250 trucks
- 8" long, 12 point, industrial finish, 1/2" square drive

S6194 Head Bolt Socket.

- Use on Toyota® and Nissan vehicles and pickups plus Honda vehicles with 12 mm head bolts
- 4" length reaches past cam and rocker assembly to service head bolts
- Thin profile socket and shank will reach through the access hole and past overhead camshaft
- Additional high torque applications: removal and installation of universal joint flange bolts on Ford Explorer, Ranger and F150/F250 trucks
- 4" long, 12 point, industrial finish
- 1/2" square drive

S6193 Head Bolt Socket.

- Use on all 1981 and later Toyota and Nissan cars and pickups and 1976 and later Honda vehicles and other import and U.S. cars with 10 mm head bolts
- Additional uses include drive shaft universal joint attaching bolts for Ford vehicles
- 4 1/2" length reaches past cam and rocker assembly to service head bolts
- Thin profile socket and shank will reach through the access hole and past overhead camshaft
- 12 point, industrial finish, 1/2" drive

S6195 Head Bolt Socket.

- Same as S6193 except for 14 mm head bolts

YA6611 Head Handler.

- Convenient and balanced T-handle design helps move cylinder heads faster and easier
- No need to "bear hug" the cylinder head during movement
- Attached floating washer for increased surface contact
- Comfortable, secure gripping surfaces for hands
- M6 x 1.0 threads
- Package of 2

YA6612 Head Handler.

- Same as YA6611 except has 1/4" x 20 threads
- Package of 2

YA6613 Head Handler.

- Same as YA6611 except has M8 x 1.25 threads
- Package of 2

FRT10 Spark Plug Insert Installer Set.

- Use to repair damaged heads from blown spark plugs with an alloy steel insert in as little as 15 to 45 minutes
- Services modular cylinder heads on 4.6, 5.4 and 6.8 L engines in Ford vehicles
- Quality, foolproof repair system is fast, cost effective and simple to use
- Includes tap (FRT10-1), core drill (FRT10-2), guide (FRT10-3), storage case (FRT10-CASE), instructional DVD (FRT10-DVD) and spark plug insert (FRT10-INS)

S6214 Head Bolt Socket.

- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- 54.1 mm length, 14 mm size, 1/2" drive, 12 point

FRT12 3 Valve Insert Kit for Ford Vehicles.

- Repair cylinders without removing the head
- Custom guide, tap and drill for quick and simple repair of damaged threads
- Unique insert installer makes the job quick and easy
- Works on 3 valve 5.4 and 6.8 L engines built before 10/9/2007
- Also works on 3 valve 4.6 L engines built before 11/30/2007 found on many 2004 to 2008 Ford, Lincoln and Mercury vehicles
- Set includes Tap (FRT-1), Core Drill (FRT-2), Guide (FRT-3), Insert Installer (FRT-4), Insert (FRT1-INS) and Storage Case (FRT-CASE)



WARNING



- Do not use chrome or industrial finish hand tool with impact drivers
- Read safety precautions on pages W1 to W4

Service Tools



S6192A



CJ113B



CJ117C



CJ147A

Power Steering/Alternator/Water Pump

S6192A Water Pump Socket.

- 1/2" square drive socket features dovetail design to deliver positive engagement when applying high torque
- Black industrial finish

Applications: 1992 to 1998 Cadillac® Northstar 4.6 L V8; 1997 to 1998 Oldsmobile® Aurora 4.0 L

S6192A-1 Water Pump Socket Stabilizing Strap.

- Bolts on water pump to secure S6192A water pump socket in place during water pump removal and replacement
- Includes (2) M6 x 12 bolts for securing strap to water pump
- Black industrial finish

Applications: 1992 to 1998 Cadillac Northstar 4.6 L V8; 1997 to 1998 Oldsmobile Aurora 4.0 L

CJ113B Power Steering/Alternator Pulley Installer.

- Designed for U.S. vehicles
- 1" pulley driver hex, 7/16" pressure screw hex, and 3/8"-16 thread
- 4 5/8" long

CJ113C4 Pulley Installer Shaft (Optional).

- Thread size of 5/8"-18UNF (puller end), 3/8"-16UNC (alternator end)

CJ117C Power Steering and Alternator Pulley Puller.

- Includes short adaptor to remove small flange type pulley: use long adaptor on M®200/Platform vehicles
- Can also remove alternator pulleys with double grooves in Chrysler® vehicles
- Replace pulleys with CJ113B installer
- Long adaptor included to handle pulleys on GM mini vans
- Nickel-chrome finish, industrial finish screw
- Designed for most U.S. cars (replace pulley with CJ122 sets)



SBIT1



SBIT2



SBT2KT



Belt Tensioning Tools

SBIT1 Stretch Belt Tool.

- Allows belt to be rotated onto pulley without twisting the belt, which can cause damage to the belt
- Low profile to allow for tight access applications
- roove on underside of tab fits on outer lip of pulley to prevent tool from slipping off the pulley

Applications:

2007-2009 Ford/Lincoln® (Edge, MKZ/MKX) 3.5 L used on water pump.

2009 Chevrolet®/GMC/Cadillac (Express, Silverado, Tahoe, Suburban, Colorado, Avalanche, Sierra, Savana, Yukon, Canyon, Escalade) 4.8, 5.3, 6.0, 6.2 L used on air conditioner compressor.

2008-2009 Hummer® (H3, H3T, H2) 5.3 and 6.2 L used on air conditioning compressor.

SBIT2 Stretch Belt Tool.

Easily install stretch belts on late model European vehicles.

Allows belt to be rotated onto pulley without twisting the belt and causing damage.

Low profile to allow for tight access applications.

roove on underside of tab fits on outer lip of pulley to prevent tool from slipping off the pulley.

Applications:

BMW®: Models 118, 120, 318, 320, 325, 330, 335, 520, 525, 530, 535, 635, 730, X3 and X5; Volvo® vehicles: Models C30, S40 and V50; Mercedes®: 3.0 L Diesel Engines

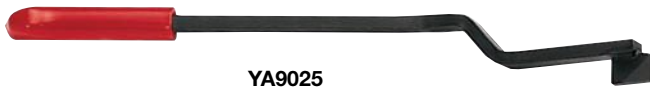
SBTR Stretch Fit Belt Removal Tool.

SBTI Stretch Fit Belt Install Tool.

- Universal removal of all stretch belts
- Easy to use process
- Allows removal and reuse of stretch fit belts

SBT2KT Stretch Fit Belt Kit.

- Universal installation and removal of all stretch belts
- Easy to use process for both removal and installation
- Allows removal and reuse of stretch fit belts
- Includes SBTI Install Tool, SBTR Removal Tool and informative instructional DVD



YA9025



SRD6



SBT26



YA9417



YA9350B



YA9340



SBTL33

Belt Tensioning Tools

YA9025 Belt Tensioning Tool (Blue-Point®).

- For 1988 and later Tempo and Topaz with 2.3 L engines and 1986 to current Taurus and Sable with 2.5 L engines
- Reaches down and around alternator to reach spring loaded serpentine belt tensioner

SRD6 Belt Tensioner Release Tool.

- 6" long adaptor with 1/2" male square
- Female triple square drive allows the user more flexibility to work around obstacles by coming in at different angles with a 1/2" breaker bar
- Similar to Snap-on® 6" torque adaptors but with a male square
- If using with a torque wrench, please refer to *Snap-on* part# SS307 Torque Chart for formula to obtain the correct applied torque

Heavy Duty Applications: Serpentine belt tensioners with a 1/2" square drive opening found on Series 60 Detroit Diesel® and Caterpillar® engines or buses and delivery vans where the doghouse or engine shrouding make accessibility difficult.

Automotive Applications: 1/2" serpentine belt tensioners on Dodge®/Chrysler® vehicles (2.0 and 3.0 L engines); Ford®, Lincoln® and Mercury® vehicles (2.3, 3.0, 4.2 and 4.6 L engines);

M® vehicles (2.5, 4.7, 5.0 and 5.7 L engines)

Belt Tensioning Tools (Blue-Point)

SBT26 Serpentine Belt Tool.

- Works on all serpentine belts
- Clamping jaw allows user to position serpentine belt without the belt slipping out of the tool
- Positive grip allows belt routing in tight access areas
- Ergonomic handle provides comfort and ease in use
- Lightweight steel body for durability and strength

YA9417 Belt Tensioning Tool.

- General use belt tool for installation and removal of V-belts and timing belts
- 2 pin design and long length allow user to push and pull belts as needed for access in restricted areas

SBTL33 Serpentine Belt Tool.

- Flexibility allows for easy adjustment of belt around various pulley positions
- LED lighted portion of tool ensures easy visibility in dark engine compartments
- Extra long 33" length allows for deeper reach around crank shaft pulley
- Reverse gripping feature allows for 2 handed positioning of tool

YA9350B Ratcheting Belt Tensioning Wrench Set.

- Allows direct access to belt tensioners without removing engine accessories or frame components
- Covers almost 90% of all vehicles equipped with spring loaded serpentine belt tensioners
- Includes YA9350B1 wrench (15 mm) and YA9350-2 to YA9350-9 adaptors
- All adaptors feature a 15 mm external hex drive for use with the YA9350B1 wrench

Applications: *Chrysler (Dodge and Plymouth), Ford (Lincoln and Mercury), GM, Isuzu, Jeep®, Lexus®, Mazda®, Mitsubishi®, Saturn®, Toyota®, VW®* vehicles

YA9350B1 Belt Tensioning Wrench. 15 mm single hex.

- YA9350-2 Adaptor.** 14 mm single hex. 15 mm external hex drive.
- YA9350-3 Adaptor.** 18 mm single hex. 15 mm external hex drive.
- YA9350-4 Adaptor.** 3/8" square drive. 15 mm external hex drive.
- YA9350-5 Adaptor.** 1/2" square drive. 15 mm external hex drive.
- YA9350-6 Adaptor.** 13 mm single hex. 15 mm external hex drive.
- YA9350-7 Adaptor.** 16 mm single hex. 15 mm external hex drive.
- YA9350-8 Adaptor.** 15 mm single hex. 15 mm external hex drive.
- YA9350-9 Adaptor.** 19 mm single hex. 15 mm external hex drive.

YA9340 Serpentine Belt Wrench.

- Use to release any serpentine belt tensioner with 1/2" square drive opening
- Ratcheting action allows for better positioning of the tool, offering more swing angle than a solid type serpentine belt wrench
- Reversible ratchet head is only 1" thick and will fit between the tensioner face and the fan blades on a Series 60 *Detroit Diesel* and some *Caterpillar* engines
- Great for working on buses and delivery vans where the doghouse or engine shrouding make the work area very tight
- Compact length keeps handle from coming in contact with radiator hoses, charged air cooler pipes, hydraulic lines or frame rails
- Vinyl grip for comfort
- 13" overall length

GA424A Belt Tension Gauge (Blue-Point).

- Range is 30 to 180 lb (130 to 800 N•m)
- Squeeze handle, place gauge on drive belt, release handle and read



GA424A



WARNING



• Read safety precautions on pages W1 to W2

Service Tools



YA7200



PRT16



YA8640



YA6760



YA9870



YA6551



YA4590A



YA65500



YA7960

Specialty Tools (Blue-Point®)

PRT16 Push Rod Remover.

- Use on V6 2.8, 3.1 and 3.4 L M® vehicle engines
- Quickly removes push rods so intake gaskets can easily be replaced
- No need to loosen and retighten the rocker arm
- Tool pivots the rocker arm to compress the valve spring and free the push rod

YA7200 Ignition Module Wrench for Ford® Vehicles.

- For 1982 and later Ford ignition modules
- Ratcheting ends are offset 25°
- One end has 7/32", 6 point; other end a T20 Torx® bit

YA8640 Cam Belt Wrench for VW®/Audi® Vehicles.

- For adjusting camshaft spur belts that have idler pulleys with pin holes
- Vinyl handle grip

YA6760 Timing Belt Pulley Holder for VW/Audi.

- Holds crank pulley stationary for crank bolt removal and installation to the factory torque requirement
- 3 bolt design for secure holding
- 1/2" drive for use with a breaker bar

Heat treated for strength with high quality black finish

Applications: 1.8 L 4 cylinder turbo: VW and Audi vehicles 1998-2006; 2.0 L 4 cylinder: VW vehicles 1993-2005; 2.0 L 4 cylinder turbo: VW and Audi vehicles 2006 and later

YA9870 Tension Pulley Spanner Wrench.

- Easily adjust camshaft spur belts having idler pulleys with pin holes on Mitsubishi®, Plymouth® and Eagle® vehicles
- Protruding pins on the wrench grip the center of the idler pulley and rotate it around its off center retaining bolt
- Rotation allows for the camshaft spur belt tension adjustment
- Designed for use on: 1990-1993 Mitsubishi® Eclipse, Eagle Talon and Plymouth Laser 2.0 L DOHC (nonturbo); 1990-1993 Plymouth Laser 2.0 L DOHC (turbo); 1990 and later Mitsubishi Eclipse and Eagle Talon 2.0 L DOHC (turbo); 1994-1996 Mitsubishi Montero 3.5 L DOHC; 1994 and later Mitsubishi Montero 3.5 L SOHC; 1994 and later Mitsubishi Galant 2.4 L SOHC; and 1994 and later Mitsubishi Mirage 1.8 L SOHC vehicles

YA4590A Hood Prop.

- 3 pc telescoping shaft locks in any position
- Range is 20 to 48 1/2"
- Will work on front or sides of any car or truck
- Made of steel tubing and features locking levers on each section
- Includes holding support to prevent slippage

YA45904 Hood Prop Adaptor.

YA65500 Cam Seal Remover.

- Special tool speeds camshaft seal removal on most V6 engines in Toyota® and Lexus® vehicles
- Unique press and pull cup design eliminates the difficult pick method
- Use on Toyota 3.0 and 3.3 L V6 (1996 and later) and Lexus 3.0 and 3.3 L V6 (1990 and later) vehicles
- Kit includes cup, press rod, washer, nut and large stud
- Heat treated alloy steel

YA6551 Cam Seal Remover/Installer.

- Kit provides accurate and fast camshaft seal removal and installation on Toyota (1996 and later) and Lexus (1990 and later) 3.0 and 3.3 L V6 engines
- Eliminates possibility of camshaft damage
- Heat treated alloy steel and high quality hardware
- Includes removal cup, press rod, washer, nut and large stud

YA7960 Camshaft Seal Kit.

- Easily removes and installs camshaft and crankshaft seals without damage
- Compact puller with unique extracting hooks engage seal for quick removal
- Interchangeable sleeves and mandrels allow easy installation of new seal
- Suits seals from 21.5 to 64 mm



YA188G



YA6010



CJ146



HIW3



YA6490

Harmonic Balancer

YA188G Harmonic Balancer Installer (Blue-Point®).

- Includes 7 adaptors for use on a wide range of engines
- Adaptor sizes: 7/16"-20, 1/2"-20, 9/16"-18, 3/4"-16, M12 x 1.5, M14 x 1.5 and M16 x 2.0

YA188-13C Metric Adaptor.

- Optional M10 x 1.5 for YA188

YA6010 Harmonic Dampener Pulley

Holding Tool (Blue-Point).

- Saves time during removal and installation of the crank bolt on most engines in Honda® and Acura® vehicles
- When used with a 1/2" drive breaker bar or ratchet, prevents the pulley from rotating when removing/installing the pulley bolt
- Can be used on most *Honda* (Accord, Civic, CRV, Del Sol, Insight, Odyssey, Prelude and S2000) and *Acura* (CL, Integra, Legend, NSX, RL and TL) engines
- Verify exact model year/engine size coverage with tool instructions

CJ146 GM® Crankshaft Harmonic Balancer Kit for GM® Vehicle.

- Remove the crankshaft harmonic balancer on 1990 and later 3.3 and 3.8 L engines on *GM* vehicles
- Shoulder bolt adaptors provide correct installation depth, preventing damage to the crank sensor and interrupter rings
- Includes 3 CJ146-1 adaptors and 1 CJ146-2 extension plus vinyl storage pouch
- Requires Snap-on® CJ98-1 yoke and CJ83-3 pressure screw for use (not included)

YA6470 Harmonic Dampener Pulley Holding Tool.

- Harmonic dampener pulley holding tool for *GM* trucks and SUVs
- Easily removes and installs the bolt holding the pulley
- Industrial black finish helps protect against corrosion

Applications:

1999 and later EN III 4.6, 5.3 and 6.0 L V8 engines



S9842A

Thermal Vacuum Switch

S9842A Thermal Vacuum Switch Socket.

- For U.S. vehicles through 1988
- 7/8", 6 point wrench opening, 1/2" drive
- 3 1/8" long

HIW3 Hand Impact Wrench (Blue-Point).

- Remove/replace harmonic balancer pulleys without removing the radiator
- Accesses restricted areas where an air impact wrench won't fit or when air supply is unavailable
- Use with any 1/2" impact socket
- Molded rubber hand guard
- Max torque: 600 ft lbs
- Overall length: 22 1/16"

YA6490 Harmonic Damper Pulley Puller (Blue-Point).

- Use on many engines in Chrysler®, Mitsubishi® and *GM* vehicles
- In most applications this compact tool eliminates the need to remove the radiator prior to removing the pulley
- Includes 4 push rods for use on crankshafts that are not drilled full depth

Applications:

GM: 2.8 L Straight 4 cylinder Chevy® Colorado, MC® Canyon (2005 and later); 3.5 L Straight 5 cylinder Chevy Colorado, GMC Canyon (2004 and later), Hummer® H3 (2006 and later); 4.2 L Straight 6 cylinder: Chevy Trailblazer, GMC Envoy, Oldsmobile® Bravada (2003 and later), Buick® Rainier (2004 and later); 5.7 L V8 (en III): Camaro, Corvette, Firebird and Trans-Am (1997 and later); en III trucks and SUVs with 4.8 L V8, 5.3 L V8, 6.0 L V8 and 8.1 L V8 (2000 and later)
Chrysler: 2.0 L 4 Cylinder, 2.4 L 4 Cylinder and 2.5 L V6 (1985 and later automobiles); 2.7 L DOHC V6, 3.2 L SOHC V6 and 3.5 L SOHC V6 (1998 and later automobiles); 3.3 L V6: (1990 and later vans); 3.3 and 3.5 L V6 (1993-1997 automobiles); 3.8 L V6 (1994 and later vans)
 4.7 L V8 (1998 and later); 8.0 L V10 (1994 and later pick-ups)
Cadillac®: 4.5 L V8: (1988-1992); 4.6 L V8: (1993 and later); 4.9 L V8: (1991-1995); 6.0 L V8: Escalade
Mitsubishi: 2.0 L DOHC non-turbo: Eclipse (1995-1999)
Oldsmobile: 4.0 L V8: (1995 and later)

YA6491 Harmonic Damper Pulley Puller Update Kit.

- Updates earlier YA9740 pullers to the same applications as the new YA6490
- Kit will also update other pulley pullers that are similar to the YA9740 Series



S6158

Turning/Moving

S6158 Engine Barring Socket.

- Use 4 through 6.6 L small block V8s in *Chevrolet* vehicles
- Designed to turn the engine over when it is on engine stand
- 1/2" drive



WARNING



• Read safety precautions on pages W1 to W4

VALVE

Lifters/Compressors



CF811B



CF19B



CF700B

Valve Lifters (Blue-Point®)

CF811B C-Clamp Compressor.

1 to 2" capacity. For L head, valve in head, high compression engines and vehicles with overhead valves. Activating mechanism prevents cocking of valve spring as it is compressed.

CF19B C-Clamp Compressor.

This compact model includes CF19-3A jaws for 1/4 to 1 1/16" diameter springs on small, air cooled engines and CF19A5 jaws for both 17 and 20.8 mm diameter springs on Honda® engines.

CF700B Valve Spring Compressor.

7/8 to 2 1/2" capacity. Operates on 90 to 150 psi, but develops up to 3x output pressure. Tool measures 1 x 8".

CF22E Replacement Jaw Set. Medium, offset jaws with 1 to 2" capacity. For CF811B and CF700B.

CF21B Optional Jaw Set. Small, straight jaws with 7/8 to 1 7/8" capacity. For CF811B and CF700B.

CF23A Optional Jaw Set. For CF811B and CF700B. Large, straight jaws with 1 1/2 to 2 1/2" capacity.



YA9140A



YA3271



VST100

VST100 Cam Operated Valve Spring Compressor. Eliminates the need for cylinder removal and the need to readjust tool to each spring. Works on most overhead valve engines.

Valve Spring Compressors (Blue-Point)

YA9140A Universal Valve Spring Compressor.

Removes/installs the valve spring without removal of the cylinder head from the engine. U.S. and import servicing of single and double overhead cam engines, including Audi®, Chrysler®, Infiniti®, Honda, Hyundai®, Lexus®, Mazda®, Mitsubishi®, Nissan®, Porsche®, Saturn®, Toyota®, Volvo® and VW® vehicles.

YA3271 Valve Spring Compressor.

For most cars and trucks with overhead valves. Works with cylinder head on or off the engine. Removable hand wheel provides option to use 5/8" socket or wrench in confined quarters.



CG90

CG90 Valve Spring Depressor.

Self leveling action compensates for any helix angle spring. Jaw length can be adjusted. Pulls with equal pressure on both jaws.

Valve Service Tools



M2112PK



M2113

Valve Spring Replacement Tools

M2112PK Timing Chain Holder For Lexus vehicles (2 pk).

- Lexus V6 Valve Spring Replacement Tool
- For Lexus safety recall ALE
- M2112PK includes (2) M2112s as 2 are required to hold timing chain

Application:

M2112PK holds timing chain during valve spring replacement or any other service requiring camshaft removal. Saves technician time as the engine can be turned over with the cam shaft out and with the timing chain installed.

M2113 For VVT Gear Holder Lexus Vehicles.

- Lexus V8 Valve Spring Replacement Tool
- For Lexus engine designation 1 UR-FSE 4.6L V8
- For Lexus safety recall ALE

Application:

M2113 holds the intake VVT gear during valve spring replacement. Saves technician time as the engine can be turned over with the cam shaft out and with the VVT gear in and timing chain installed. M2113 can be used instead of using wire ties.



GA318A

GA317



GA285

YA6380

Valve Keeper Tools (Blue-Point®)

GA318A Overhead Valve Tool.

- Removes and replaces valve keepers on all gas and diesel overhead valve engines, even VW® Rabbit, motorcycle, marine and aircraft engines
- Magnetically retains keepers and won't bend valve stems
- Use in place of c-clamp or other type of compressor
- Use only with a soft faced hammer

GA317 Metric Valve Keeper Remover/Installer.

- Quickly removes and installs valve keepers on most overhead cam engines with valve stems from 4.5 to 7.5 mm
- Push or tap tool with hammer to remove valve keepers
- Magnet in tool body captures keepers for quick removal and valve disassembly
- To install keepers, load keepers then push or tap to install
- Used on vehicle or on workbench

Camshaft/Crankshaft Tools (Blue-Point)

GA285 Camshaft Bearing Remover and Inserter Set.

- Removes and inserts bearings in all engines
- 5 driving plugs handle a range of 1.475 to 2.690"
- Fits slightly undersized or oversized bearings
- Sturdy storage box

YA6380 Camshaft Seal Installer Set.

- Quickly and easily install the crankshaft seal on most 4 cylinder and V6 engines that have 10 and 12 mm x 1.25 cam bolts



YA8230

GA264A



VL2



YA6290

General Service (Blue-Point)

YA8230 Valve Stem Seal Pliers.

- Removes valve stem seals from overhead camshaft engines including 4 valve per cylinder engines that have restricted access to the valve stem seal
- ripping serrations in the pliers tip easily grab both OEM and aftermarket seals with ease
- Easy grip handles

GA264A Oil Deflector Set.

- For engines with pressure lubricated push rods
- Deflectors clip onto rockers and deflect oil from feed holes to return oil to engine and eliminate splash
- 16 deflectors clipped to a metal storage panel

Valve Holders.

- Each includes 2 rubber suction cups for use when hand grinding flat head unslotted valves
- Hardwood handle

VL2 Valve Holder. 5/8 and 13/16" diameter suction cups.

VL3 Valve Holder. 1 1/8 and 1 3/8" diameter suction cups.

YA6290 Valve Stem Seal Pliers.

- Use in restricted areas with a clearance problem above the cylinder head
- Pliers head rotates from 0 to 90
- Jaw tip features a thin edge for hooking under stubborn valve stem seals
- 4 vertical ridges on jaws aid in holding the valve stem seal
- Vinyl handle grips for comfort and control

Valve Guide Service Tools



PHG83A



AC10A

Metric Valve Guide Removers

- Designed for use with Snap-on® air hammers
- Can also be used as drift punches

PHG97A Valve Guide Remover. 5.2 mm pilot. 189 mm long.

PHG96A Valve Guide Remover. 6.9 mm pilot. 189 mm long.

PHG83A Valve Guide Remover. 7.7 mm pilot. 190 mm long.

PHG86A Valve Guide Remover. 9.3 mm pilot. 190 mm long.

Valve Guide Brushes (Blue-Point)

- Brush wire is woven into twisted wire strands
- Each features a fluted, wooden handle

AC10A Valve Guide Brush. 5/16" diameter brush.

AC11A Valve Guide Brush. 11/32" diameter brush.

AC12A Valve Guide Brush. 3/8" diameter brush.



WARNING



• Read safety precautions on pages W1 to W4

Service Tools



YA8830



KRA16AAPV

YA8830 Cylinder Head Stand. Holds cylinder head up and away from the workbench, allowing clearance for the manifolds. Steel bar clamps to a bench vise. Simply slide on the movable arms, which adjust to almost any steel or aluminum head configuration.

KRA16AAPV Valve Rack. (16) 11/16" holes provide easy access to valves. Hang on roll cab or tool chest with 1/4" or more lip.



YA8895



S6132A

Metric Jam Nut Type Adjustment Tools (Blue-Point®)

Include an idle adjustment screwdriver within a socket and handle for holding adjustment screw in place while the jam nut is tightened. Handle pivots from one side to the other so the socket "window" is always visible.

YA8895 Valve Adjustment Tool.

For all cars with 10 mm jam nut valve screws.

YA8880 Valve Adjustment Tool.

For all cars with 12 mm jam nut valve screws.

Cover Bolt Socket

S6132A Metric Valve Cover Bolt Socket. For GM® and 1976 and later Honda®; other imports and U.S. 10 mm, 12 point wrench size. Allows access to head bolts, valve and rocker covers, and oil pan bolts. Deep clearance for bolts with extended tip as used on spark plug wire harness. 3/8" drive; 11/16" O.D. 4 1/8" long.



YA8825

Valve Adjustment Tools (Blue-Point)

Valve adjusting tools for current VW® vehicles. These 2 tools are designed to be used together on all late models requiring the VW #2078 tool, which includes all current 5 cylinder VWs and Audi® 5000.

YA8825 Valve-Adjusting Tool. For Toyota® and other overhead camshaft engines using spacer shims. Shim pliers push between the shim and camshaft, allowing the included YA8825-1 wedge tool to be placed between the valve lifter ledge and camshaft for easy shim replacement.

YA8825-1 Wedge Tool. Wedge tool to be placed between the valve lifter ledge and camshaft for easy shim replacement.



CF61CS

Standard Duty (Blue-Point®)

CF61CS Cylinder Hone.

- For 2 to 7" diameter cylinders
- Self centering and self bottoming with spread limiters to control hone diameter
- Spring action gives correct tension when using with an electric drill
- Includes (3) 220 medium grit stones
- All available stones are 3" long

CF61-100 Stone Set. (3) 100 coarse grit stones.

CF61-12S Stone Set. (3) 220 medium grit stones.

CF61-14S Stone Set. (3) 400 fine grit stones.

CF62CS Cylinder Hone. Similar to CF61CS but for 2 to 6 3/4" diameter cylinders with larger stones. Includes (3) 220 medium grit stones. All available stones are 4" long.

CF62-100 Stone Set. (3) 100 coarse grit stones.

CF62-12S Stone Set. (3) 220 medium grit stones.

CF62-14S Stone Set. (3) 400 fine grit stones.

Cylinder Service Tools



WR30A

Ridge Reamer (Blue-Point)

WR30A Ridge Reamer.

- Lathe type reamer is for 3 to 5" diameter cylinders
- Centers itself in cylinder

WR30A10 Replacement Cutter Bit.



GA3627

Cylinder Bores

GA3627 Cylinder Bore Gauge.

- Measure cylinder wear without removing pistons
- Check cylinder diameter when used with micrometer
- Range is 2.6 to 7" in .001" increments and measures to a bore depth of 8"
- Includes gauge, 6 extensions (0.2, 0.4, 0.6, 0.8, 1.0 and 2.0") plus storage case

Piston Service Tools



PRS8

Ring Expanders

PRS8 Piston Ring Expander.

- Installs piston rings from 3/64 to 1/4" thick
- Eliminates breakage or distortion of rings
- 7" long

PRS10 Piston Ring Expander.

- 2 3/4 to 4 1/4" ring capacity
- Remove or install both step cut and diagonal cut rings
- Spring tension eliminates the need for adjustment

PRS12 Piston Ring Expander.

- Similar to PRS10 but with 4 1/2 to 7" ring capacity
- Excellent for heavy duty diesel applications



PRS10



WARNING



- Operate bore only while it is within cylinder
- Read safety precautions on pages W1 to W4

PISTON

Piston Service Tools



RC150A



RC40C



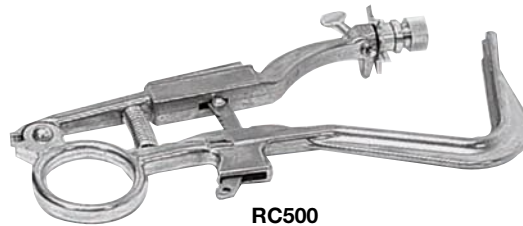
RCL30



RCW60



RC980



RC500



RC510A

Ring Compressors

Clutch control holds tension band in position as piston is inserted into cylinder. 1/2" wide spring bands equalize tension over belt width so ring assembly may be compressed into groove until flush with piston. V beads on lower edge of belt keep tool from entering cylinder. RC40C can be used upside down for Chevrolet®, Mercury® and Ford® trucks with angled blocks.

RC150A Ring Compressor. 4 band. 3 1/2 to 7" capacity. 7" deep.

RC50C Ring Compressor. 2 band. 3 1/2 to 7" capacity. 3 1/2" deep.

RC40C Ring Compressor. 2 band. 2 1/8 to 5" capacity. 3 1/2" deep.

RCL30 Ring Compressor. 1 band. 2 1/2 to 5" capacity. May be disassembled and removed from around connecting rod when used on small aircraft, motorcycle or other engines that require the cylinder to be pushed over the piston during assembly.

RCW60 Ring Compressor. 1 band. 3 to 5" capacity. 1 1/2" deep. Low friction wrinkle band construction with thumbscrew for precise adjustment. Also used on small aircraft and motorcycle engines where cylinders are pushed over piston during assembly.

RC980 Ring Compressor Set. Works both horizontally and vertically with pliers grip handle. Fine tooth ratcheting mechanism. Includes 6 hardened steel bands: 2 7/8 to 3 1/8", 3 1/8 to 3 3/8", 3 3/8 to 3 5/8", 3 5/8 to 3 7/8", 3 7/8 to 4 1/8", and 4 1/8 to 4 3/8".

RC980-7 Optional Band. 4 1/2 to 4 3/4" capacity.

RC980-8 Optional Band. 4 3/4 to 5" capacity.

RC980-9 Optional Band. 5 to 5 1/4" capacity.

RC980-10 Optional Band. 5 1/2 to 5 3/4" capacity.

RC980-11 Replacement Pliers.

Ring Groove Cleaners

RC500 Piston Ring Groove Cleaner. For pistons with grooves of 5/64, 3/32, 1/8, 5/32 and 3/16" with diameters from 2 1/2 to 5".

RC500-1 Replacement Cutter Blade. Replacement cutter blade.

RC500-11 Optional Cutter Blade. For 1/8, 1/4, 5/16, 2.5 and 3 mm grooves.

RC510A Piston Ring Groove Cleaner. For pistons with grooves of 5/64, 3/32, 1/8, 5/32 and 3/16" with diameters from 1 to 5".

RC510-1 Replacement Cutter Wheel.

RC510-6 Replacement Knurled Nut.

RC510-3 Adaptor. Adapts RC510A for use on pistons with diameters of 1 to 2 3/4".

RC510-7M Replacement Metric Cutter Wheel.



HLE24

Dead Blow Hammer

HLE24 Piston Dead Blow Hammer. Made of material that won't damage the piston. Shot filled head drastically reduces rebound. Head length is 7 3/4". Diameter is 1 1/4 to 1 1/2" with a reach of 5 1/2" to the handle shoulder. Overall length is 12 3/4".



A57Q Bushing Remover/Insertor Set.

- For standard and specialized bronze, steel, rubber or Enlox bushings
- Range of adaptor sizes covers nearly all shackle and steering bushings
- New bushings are inserted by tightening screw, which forces the bushing into place without hammering
- Sleeve permits forcing out of old bushings
- Useful where limited space prevents driving them out
- 5 smallest adaptors are used only with the smallest driver

Stock No.	Description
A57CA	Screw (1/2"-20)
A57-35	Screw (5/8"-18)
ME4A2	Nut (1/2"-20)
ME4A4	Nut (5/8"-18)
A57-3	Washer (1/2" I.D., 1 1/4" O.D.)
A57-37	Sleeve Adaptor (.500" I.D. x .625" O.D.)
A57-39	Sleeve Adaptor (.640" I.D. x 2.047" O.D.)
A57-41	Sleeve Adaptor (1.000" I.D. x 2.047" O.D.)
A57-38	Sleeve Adaptor (1.500" I.D. x 2.047" O.D.)
ESD1428	Bearing (1/2" I.D., 1" O.D.)
ME11A1	Bearing (5/8" I.D., 1 1/8" O.D.)
A57-36	Sleeve (4 15/16" long, 2 1/16" I.D.)
A57-27	Puller (1/8"-27 taper thread)

Stock No.	Dimension, inches O.D.	Dimension, inches Small O.D.	Dimension, inches Large I.D.	Dimension, inches Large O.D.
A57-15	Bushings Driver for Adaptors A57-16 through A57-26			
A57-16	.339	.434		
A57-17	.430	.497		
A57-26	.492	.622		
A57-18		.493		.559
A57-25		.554		.684
A57-14A	Bushings Driver for Adaptors A57-8 through A57-20			
A57-8	.555	.622		
A57-19	.601	.668		
A57-7	.618	.747		
A57-6	.678	.809		
A57-5	.728	.856		
A57-24	.742	.997		
A57-10	.789	.918		
A57-11		.851		.980
A57-22		.907		1.046
A57-12A		.919		1.027
A57A13		.993		1.122
A57-46		1.034		1.136
A57-20		1.055		1.184
A57-23A		1.101		1.230
Large Adaptors				
A57-45		1.250	1.125	
A57-42		1.406	1.187	
A57-48	1.206	1.500		
A57-29	1.222	1.372		
A57-40	1.367	1.625		
A57-44		1.812	1.375	
A57-43			1.625	2.000
A57-47			1.859	2.000
A57-49				13/16 opening
A57-51				17/32 opening
A57-50				1 3/8 opening



WARNING



• Read safety precautions on pages W1 to W4

BUSHING/SEAL

Driver Sets



A1310A

Bearing Race and Seal Driver Set

A1310A Bearing Race and Seal Driver Set (Blue-Point®).

- Collars fit most standard wheel bearing sizes
- 3 largest sizes fit most late model 4 wheel drive vehicles



A157C

Standard Bushing Driver Set

A157C Standard Bushing Driver Set.

- Adaptors held on drivers with knurled nut
- Small and medium drivers (A157-3 and A157-2) fit all smaller bushings (A157-6 through A157-12); large driver (A157-1) fits remaining bushings (A157-13 through A157-22)
- Set comes packaged in PB20 storage box



A158B

Heavy Duty Bushing Driver Set

A158B Heavy Duty Bushing Driver Set.

- Includes 8 basic adaptors for servicing bushings on trucks, tractors and buses
- Adaptors are secured to threaded driver shaft by knurled nut
- Industrial finish
- Set comes packaged in PB34 storage box



A257

Complete Heavy Duty Bushing Driver Set

A257 Complete Heavy Duty Bushing Driver Set.

- Complements the A157C set by adding 27 larger adaptors for transmission work as well as many other automotive and industrial applications
- Industrial finish
- Set is arranged in PB27 storage box

A1310A Set Components

Stock No.	Description
A1306-1	Handle (5 3/4" long)
A1306-2	Collar (1 9/16" long)
A1306-3	Collar (1 3/4" long)
A1306-4	Collar (1 31/32" long)
A1306-5	Collar (2 5/16" long)
A1306-6	Collar (2 17/32" long)
A1306-7	Collar (2 15/32" long)
A1310-1	Collar (2 27/32" long)
A1310-2	Collar (3" long)
A1310-3	Collar (3 3/16" long)

A157C Set Components/Adaptors

Stock No.	I.D., inches	O.D., inches	Stock No.	I.D., inches	O.D., inches
A157-1	Large Driver Handle		A157-11	5/8	3/4
A157-2	Medium Driver Handle		A157-12	11/16	13/16
A157-3	Small Driver Handle		A157-13	3/4	7/8
A157-4	Driver Nut, 5/16"-24		A157-14	13/16	15/16
A157-5	Driver Nut, 1/2"-20		A157-15	7/8	1
A157-6	3/8	7/16	A157-16	15/16	1 1/16
A157-22	15/32	17/32	A157-17	1	1 1/8
A157-7	7/16	1/2	A157-18	1 1/16	1 3/16
A157-8	1/2	5/8	A157-19	1 1/8	1 1/4
A157-9	9/16	11/16	A157-20	1 3/16	1 5/16
A157-10	5/8	11/16	A157-21	1 1/4	1 3/8

A158B Set Components/Adaptors

Stock No.	I.D., inches	O.D., inches	Stock No.	I.D., inches	O.D., inches
A257-1	Large Driver Handle		A257-26	1 1/2	1 5/8
A157-5	Driver Nut, 1/2"-20		A257-27	1 9/16	1 11/16
A257-23	1 5/16	1 7/16	A257-28	1 5/8	1 3/4
A257-24	1 3/8	1 1/2	A257-29	1 11/16	1 13/16
A257-25	1 7/16	1 9/16	A257-30	1 3/4	1 7/8

A257 Set Components/Adaptors

Stock No.	I.D., inches	O.D., inches	Stock No.	I.D., inches	O.D., inches
A257-1	Large Driver Handle		A257-36	2 1/8	2 1/4
A157-5	Driver Nut, 1/2"-20		A257-37	2 3/16	2 5/16
A257-23	1 5/16	1 7/16	A257-38	2 1/4	2 3/8
A257-24	1 3/8	1 1/2	A257-39	2 5/16	2 7/16
A257-25	1 7/16	1 9/16	A257-40	2 3/8	2 1/2
A257-26	1 1/2	1 5/8	A257-41	2 7/16	2 9/16
A257-27	1 9/16	1 11/16	A257-42	2 1/2	2 5/8
A257-28	1 5/8	1 3/4	A257-43	2 9/16	2 11/16
A257-29	1 11/16	1 13/16	A257-44	2 5/8	2 3/4
A257-30	1 3/4	1 7/8	A257-45	2 11/16	2 13/16
A257-31	1 13/16	1 15/16	A257-46	2 3/4	2 7/8
A257-32	1 7/8	2	A257-47	2 13/16	2 15/16
A257-33	1 15/16	2 1/16	A257-48	2 7/8	3
A257-34	2	2 1/8	A257-49	2 15/16	3 1/16
A257-35	2 1/16	2 3/16			

A160M Set Components

Stock No.	Description	Stock No.	Description
A157-1	Large Driver Handle	A160M6	Adaptor (18-20 mm)
A157-2	Medium Driver Handle	A160M7	Adaptor (20-22 mm)
A157-3	Small Driver Handle	A160M8	Adaptor (22-24 mm)
A157-4	Driver Nut, 5/16"-24	A160M9	Adaptor (25-27 mm)
A157-5	Driver Nut, 1/2"-20	A160M10	Adaptor (28-30 mm)
A160M1	Adaptor (10-12 mm)	A160M11	Adaptor (30-34 mm)
A160M2	Adaptor (12-14 mm)	A160M12	Adaptor (32-36 mm)
A160M3	Adaptor (14-16 mm)	A160M13	Adaptor (35-40 mm)
A160M4	Adaptor (15-17 mm)	A160M14	Adaptor (38-42 mm)
A160M5	Adaptor (16-18 mm)		



A160M

Standard Metric Bushing Driver Set

A160M Metric Bushing Driver Set.

- Includes 3 driver handles and adaptors in 10 to 42 mm sizes
- Packaged in PB118 storage box

A261M Set Components

Stock No.	Description	Stock No.	Description
A257-1	Large Driver Handle	A261M5	Adaptor (50-53 mm)
A157-5	Driver Nut, 1/2"-20	A261M6	Adaptor (55-60 mm)
A261M1	Adaptor (40-44 mm)	A261M7	Adaptor (60-65 mm)
A261M2	Adaptor (42-45 mm)	A261M8	Adaptor (65-70 mm)
A261M3	Adaptor (45-48 mm)	A261M9	Adaptor (70-75 mm)
A261M4	Adaptor (48-52 mm)	A261M10	Adaptor (75-80 mm)



A261M

Metric Heavy Duty Bushing Driver Set

A261M Metric Bushing Driver Set.

- Includes an extra large driver handle and adaptors in 40 to 80 mm sizes
- Packaged in PB117 storage box

YA2480 Seal Driver Set Components

Stock No.	Description	Stock No.	Description
A1306-1	Knurled Handle	YA2480-8	Adaptor (#8)
A1306-1-1	Adaptor Mounting Bolt	YA2480-9	Adaptor (#9)
YA2480-17	Steel Back up Washer	YA2480-10	Adaptor (#10)
YA2480-1	Adaptor (#1)	YA2480-11	Adaptor (#11)
YA2480-2	Adaptor (#2)	YA2480-12	Adaptor (#12)
YA2480-3	Adaptor (#3)	YA2480-13	Adaptor (#13)
YA2480-4	Adaptor (#4)	YA2480-14	Adaptor (#14)
YA2480-5	Adaptor (#5)	YA2480-15	Adaptor (#15)
YA2480-6	Adaptor (#6)	YA2480-16	Adaptor (#16)
YA2480-7	Adaptor (#7)		



YA2480



WARNING



• Read safety precautions pages W1 to W4

COVERS

Fender/Seat Covers

High density sponge rubber is laminated to vinyl, providing better protection and adherence to the fender. Less susceptible to creasing.



JCKS6A

JCKS6A Fender Cover.

- Measures 21" W by 30" L
- Raised ribbing along the center section provides tool holding space



JCKS7A

JCKS7A Fender Cover.

- Measures 22 1/2" W by 30" L
- For use on vehicles with broad fenders
- Raised ribbing along the center section provides tool holding space



JCK7DBL

JCK7DBL Fender Cover.

- Measures 26" W by 36" L
- For use on shorter fenders of most new vehicles
- Raised ribbing

JCK7D Fender Cover. Same as JCK7DBL in red.



JCK8

JCK8 Fender Cover.

- Measures 26" W by 36" L
- Nonslip, nonabsorbent surface conforms to the fender of any vehicle
- Red material with white lettering
- Easy to clean with soap and water



JCK15D

JCK15D Fender Cover.

- Heavy duty vinyl material protects all surfaces
- Measures 29" W x 52" L



KAC1224TCA

KAC1224TCA Motorcycle Gas Tank Cover.

- Fits Harley-Davidson® Dyna, Softail and Touring models
- Fits various models of Yamaha®, Victory®, Triumph® and Kawasaki® motorcycles plus many more
- Protects the finish while you perform routine maintenance
- Keeps dust and dirt off the gas tank
- Nonmarring cover uses a nonabrasive inner liner that won't slide off

Standard Creepers

Headrest is 2 3/4" thick and pad is 1 3/4" thick for comfort

High density foam

Plywood backing for ultimate strength

JCW60R

16 gauge 3/4" steel frame side rails

3/4" ground clearance

JCW60SP

JCW65ABL

JCW8A

Stock No.	Pad Color	Overall Size, inches	Pad Length	Pad Width	Number of Casters	Caster Diameter	Adjustable
JCW60R	Red	40 L x 17 W x 4 H	39"	11"	6	2 1/2"	
JCW60BL	Black	40 L x 17 W x 4 H	39"	11"	6	2 1/2"	
JCW60SP	Red/Black	40 L x 17 W x 4 H	39"	11"	6	2 1/2"	
JCW65AR	Red	40 L x 17 W x 4 H	39"	11"	6	2 1/2"	•
JCW65ABL	Black	40 L x 17 W x 4 H	39"	11"	6	2 1/2"	•
JCW8A*	Black	40 L x 17 W x 4 H	39"	11"	4	2 1/2"	
JCW10*	Black	40 L x 17 W x 4 H	39"	11"	4	2 1/2"	•

*Blue-Point®

Heavy Duty Creepers

Headrest is 2 3/4" thick and pad is 1 3/4" thick for comfort

High density foam

13" pad width

JCW70AR

16 gauge 1" steel frame side rails

1 3/8" ground clearance

Plywood backing for ultimate strength

JCW75ABL

JCW11A

Stock No.	Pad Color	Overall Size, inches	Pad Length	Pad Width	Number of Casters	Caster Diameter	Adjustable
JCW70AR	Red	40 L x 22 W x 5 3/4 H	39"	13"	4	4"	
JCW70ABL	Black	40 L x 22 W x 5 3/4 H	39"	13"	4	4"	
JCW75AR	Red	40 L x 22 W x 5 3/4 H	39"	13"	4	4"	•
JCW75ABL	Black	40 L x 22 W x 5 3/4 H	39"	13"	4	4"	•
JCW11A*	Black	39 1/2 L x 19 W x 4 1/2 H	39"	13"	4	3"	

*Blue-Point



WARNING



- Do not stand on or use as a cart
- Read safety precautions on pages W1 to W4

CREEPERS

Seat Creepers



Stock No.	Pad Color	Overall Size, inches	Seat Size, inches	Drawer Size, inches	Adjustable	Adjustment Range
JCW80R	Red	14 1/4 L x 19 W x 15 H	10 L x 14 1/4 W	9 7/8 L x 11 1/2 W x 1 3/4 D		
JCW80BL	Black	14 1/4 L x 19 W x 15 H	10 L x 14 1/4 W	9 7/8 L x 11 1/2 W x 1 3/4 D		
JCW85R*	Red	17 3/4 L x 15 W x 23 H	17 3/4 L x 10 W x 8 H	9 7/8 L x 11 1/2 W x 1 3/4 D		
JCW85BL*	Black	17 3/4 L x 15 W x 23 H	17 3/4 L x 10 W x 8 H	9 7/8 L x 11 1/2 W x 1 3/4 D		
JCW90ABL	Black	15 L x 15 W x 21 1/2 H	13 3/4 L x 13 3/4 W		•	14 to 19 1/4"
JCW95AR*	Red	17 3/4 L x 15 W x 28 1/4 H	17 3/4 L x 10 W x 8 H		•	14 to 19 1/4"
JCW95ABL*	Black	17 3/4 L x 15 W x 28 1/4 H	17 3/4 L x 10 W x 8 H		•	14 to 19 1/4"
JCW9**	Black	17 L x 20 1/2 W x 15 H	7 L x 14 W			

* Bucket seats

** Blue-Point®

Specialty Creepers/Accessories



JCP38

JCP38 Plastic Creeper.

- Body fitting design
- 38" L x 17" W x 4" H



JCPW40B

JCPW40B Padded Creeper.

- 13" wide padded creeper with 6" all rubber tires
- Provides a smooth ride over rough terrain
- Constructed from 1" 16 gauge steel tubing
- Overall dimensions: 39" L x 29" W x 9 1/2" H



KRJC23AAPV

KRJC23AAPV Creeper Hanger.

- Secures creepers to roll cabs
- Adjustable to 4 different creeper widths
- Hanger hooks over lip of roll cab and screws down
- Includes 2 hook bolts and a lock rod



JCW50R

JCW50R Wishbone Creeper.

- Frame allows additional shoulder and leg clearance
- High density 80 lb foam over a plywood bed for strength
- Pad length of 39", 11" width
- (4) 2 1/2" ball bearing swivel casters

Micrometers and Sets



MIC1B

Digital Micrometers, inches

- Standard reading in .001" increments on digit display
- Vernier style reading in .0001" increments
- Large easy to handle insulated frame, carbide tipped anvils, positive locking clamp and ratchet stop thimble



MIC103B

Stock No.	Range, inches	Increments, inches
MIC1B	0-1	.0001
MIC2B	1-2	.0001
MIC3B	2-3	.0001
MIC4B	3-4	.0001
MIC5B	4-5	.0001

MIC103B SAE Set (Blue-Point®). MIC1B, MIC2B and MIC3B in fitted case with standards.



MIC1MB

Digital Micrometers, mm

- Standard reading in .01 mm increments on mechanical digital display
- Large easy to handle insulated frame, carbide tipped anvils, positive locking clamp and ratchet stop thimble



MIC103MB

Stock No.	Range, mm	Increments, mm
MIC1MB	0-25	0.01
MIC2MB	25-50	0.01
MIC3MB	50-75	0.01
MIC4MB	75-100	0.01
MIC5MB	100-125	0.01

MIC103MB Digital Metric Micrometer Set (Blue-Point). MIC1MB, MIC2MB and MIC3MB in fitted case with standards.



MICB1B

Outside Micrometers, inches

- Standard reading in .001" increments on handle
- Vernier style reading in .0001" increments
- Large easy to handle insulated frame, carbide tipped anvils, positive locking clamp and ratchet stop thimble



MICB103B

Stock No.	Range, inches	Increments, inches
MICB1B	0-1	.0001
MICB2B	1-2	.0001
MICB3B	2-3	.0001
MICB4B	3-4	.0001
MICB5B	4-5	.0001

MICB103B SAE Set (Blue-Point). Includes: MICB1B, MICB2B, MICB3B (3 pcs) in fitted case with standards.



MICINSIDE12

MICINSIDE12 Inside Micrometer Set.

- Range is 2 to 12" in .001" increments
- Includes inside micrometer head and a series of coil spring pressure contact rods



MICED1B

MICED1B Electronic Digital Micrometer (Blue-Point).

- Display reads to 0.00005" (0.001 mm)
- Zero set for absolute and incremental measuring modes
- Auto shutoff after 10 minutes
- Insulated frame, hardened body, carbide tipped anvil, positive locking clamp and ratchet stop thimble



DM6

DM6 Depth Micrometer Set.

- Measure depths of slots, counterbores, holes and keyways up to 6" in depth
- 4" satin chrome base for greater stability
- graduated in .001" increments

Stock No.	Description
DM61	4" rod
DM62	5" rod
DM63	6" rod
DM64	7" rod
DM65	8" rod
DM66	9" rod
DM67	Micrometer Head



MIC22

Micrometer Test Gauges

- Test gauges are used as micrometer standards
- Accuracy meets Federal Specifications

MIC22	1"
MIC32	2"
MIC42	3"
MIC52	4"
MIC2M2	25 mm
MIC3M2	50 mm



WARNING



• Read safety precautions on pages W1 to W4

MEASURING

Small Hole/Telescoping Gauge Sets



MROUND4

Small Hole Gauge Set

MROUND4 Small Hole Gauge Set.

- Knurled knob at handle for size adjustment
- Full round gauging surface with flat bottom

Stock No	Range, inches
CM4311	0.125 - 0.200
CM4312	0.200 - 0.300
CM4313	0.300 - 0.400
CM4314	0.400 - 0.500



MTEE6

Telescoping Gauge Set

MTEE6 Telescoping Gauges.

- Measurable depth is 4 to 5"
- Set of 6, packaged in a plastic pouch

Stock No.	Range, inches
CM4349	5/16 - 1/2
CM4350	1/2 - 3/4
CM4351	3/4 - 1 1/4
CM4352	1 1/4 - 2 1/8
CM4353	2 1/8 - 3 1/2
CM4354	3 1/2 - 6

Calipers/Magnetic Bases/Divider



MCAL6A

Calipers (Blue-Point®)

MCAL6A Electronic Digital Caliper.

- Range is 0 to 6" (0 to 150 mm) in 0.0005" (0.01 mm) resolutions
- Use for inside, outside, depth and step measurements
- Inch/metric conversion with one button
- Large LCD display
- Hardened stainless steel frame



MCAL12A

MCAL12A Electronic Digital Caliper (Blue-Point).

- Essential tool for working on larger vehicles, trucks, tractors and earth moving equipment
- Range is 0 to 12" (0 to 305 mm) in 0.0005" (0.01 mm) resolutions
- Use for inside, outside, depth and step measurements
- Inch/metric conversion with one button
- Large LCD display with floating zero set
- Locking nut and thumb roll for smooth action



PMF147A

PMF147A U.S./Metric Dial Type Caliper.

- Range is 0 to 6" (0 to 150 mm) in 0.001" (0.1 mm) increments
- Includes storage case



CM6416

Magnetic Base

CM6416 Holder.

- Magnet has On/Off switch
- Base is 2 3/8" x 1 7/8" x 2 1/2"
- Post 7" x 15/16"; Rod 6" x 25/64"
- Will grip flat or curved metal surfaces

Levels



TL900L

TL900L 9" Aluminum Lighted Level (Blue-Point).

- Lighted level for more accurate readings under all conditions
- Machined Billet Aluminum for added durability
- Rare earth magnets attach to ferrous surfaces
- 45, 90 and 180 scales for flexibility
- Uses 2 AAA alkaline cells (included)
- Auto shut off feature after 10 minutes extends battery life



YA328A

YA328A Angle Locator (Blue-Point).

- Precise, accurate tool to determine angle measurements
- Ideal for checking drive shaft angle
- Red degree indicator located behind numbers for exact reading of graduations
- Fractional and metric scales molded into base of tool in 1/8" and centimeters
- Large 1 7/8 x 7/8" magnet in base for secure retention

Timing/Dial Test Indicators Gauges

Timing Gauges

GA3625A Timing Gauge.

- 2 cycle and small engine timing gauge
- 0-1" indicator with .0005" graduations
- Easy to read white on black dial face
- 14 and 18 mm adaptors included
- For finding top dead center



GA3625A

Dial Test Indicator Sets

GA3400 Universal Dial Test Indicator Set.

- Small dial indicator set
- .200" range with .001" graduations
- Easy to read white on black dial face
- Traditional fixed clamp style attachment
- Excellent choice for machining applications

GA3640 Long Range Dial Test Indicator Set.

GA3645 Long Range Dial Test Indicator Set.

GA3634 Ball Joint/Disc Brake Test Indicator Set.

- All purpose indicator sets
- Perfect for general use
- Indicator with 0-1" range and .0005" graduations
- Easy to read white on black dial face
- GA3640 uses a fixed magnetic base
- GA3645 uses a conforming magnetic base for more mounting options
- GA3634 uses locking pliers and a flexible gooseneck for nonmagnetic applications and difficult areas
- Ideal for brake and undercar work

GA3450 Universal Pinion Depth Gauge.

- Rear pinion depth gauge
- Accurate pinion depth setup for vehicles up to 1 ton
- Premeasure pinion depth to use with OEM gear sets

GA3460 Master Rear Axle Set.

- Master rear end setup set
- Includes everything needed to set up a replacement rear end and check axles
- Multiple mounting methods
- White on black easy to read dial face
- For U.S. and import rear ends up to 1 ton



GA3400



GA3640



GA3645



GA3634



GA3450



GA3460

Dial Test Indicator Set Specifications

Stock No.	Range	Graduations	Reading
GA3400	.200"	.001"	0-100
GA3640	1.00"	.0005"	0-50
GA3645	1.00"	.0005"	0-50
GA3634	1.00"	.0005"	0-50
GA3450	0.00 to 4.00"	.0005"	0-50
GA3460	0.00 to 1.00" (0.00 to 4.00" with extension)	.0005"	0-50

Contact Points and Extensions

GA3601 Dial Indicator Extension.

- Use with GA3400, GA3634, GA3640 and GA3645 dial test indicators
- 4-48 female thread allows the extension of any contact point for special applications
- 6" long

GA3609 Contact Point Set.

- Use with GA3400, GA3634, GA3640 and GA3645 dial test indicators
- 4-48 female thread allows the extension of any contact point for special applications
- Extensions can be joined together to extend reach
- Contact points feature a polished tip with radius end and are manufactured from hardened steel
- Includes (4) 1" extensions, 4 contact points (0.2", 0.4", 0.6" and 0.8") plus holder for set components



GA3601



GA3609



WARNING



• Read safety precautions on pages W1 to W4

MEASURING

Feeler Gauges (Blue-Point®)



FB310B



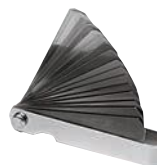
FB325A



FB335



FBL325A



FBM320

General Use

Stock No.	No. of Blades	Blade Dimensions, inches	Blade Size	Increments	Description
FB310B	13	1/2 x 3	.001", .0015", .002" to .008", .010", .012", .013", .015"		Double stamped with fractional and metric sizes
FB325A	25	1/2 x 3	.0015", .002" to .025"	.001"	General Use Feeler Gauge (25 blades)
FB335	35	1/2 x 3	.0015", .002" to .035"	.001"	Swedish Steel Feeler Blade
FBL325A	25	1/2 x 12	.0015", .002" to .021", .025", .027", .030", .040"	.001"	Long blade, double stamped with U.S. and metric sizes
FBM320	20	1/2 x 3	.05 to 1 mm	.05 mm	Metric Feeler Gauge Set



FB316B



FB326B

Ignition

Stock No.	No. of Blades	Blade Dimensions, inches	Blade Size	Increments	Description
FB316B	18	1/4 x 1 3/4	.010", .012", .013", .015" to .022", .024" to .026", .028", .030", .032", .035"	.001"	Short Blade, Ignition/Spark Plug Gauge Set, double stamped with U.S. and metric sizes
FB326B	26	1/2 x 3	.008", .010", .012", .013", .015", .017", .018", .020", .022", .024" to .026", .028", .030", .032", .035"	.001"	Double stamped with fractional and metric sizes



FB300A



FB308D



FB322



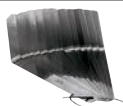
FB328A



FBM322

Bent and Step Blades

Stock No.	No. of Blades	Blade Dimensions, inches	Blade Size	Increments	Description
FB300A	25	1/2 x 3	.006" to .030"	.001"	Feeler Gauge Set, blade ends are angled at 45°
FB308D	12	1/2 x 3	.008"-0.010", .011"-0.013", .013"-0.015", .014"-0.016", .015"-0.017", .017"-0.019", .018"- .020", .020"-0.022", .023"-0.025", .025"-0.027", .026"-0.028", .028"-0.030"	.001"	Step Feeler Gauge Set
FB322	22	1/2 x 3 3/8	.004"-0.006" to .025"-0.027"	.001"	G o-No Go blades with 2 sizes each
FB328A	2	1/2 x 3	.011"-0.013", .013"-0.015"		For valve adjustment on GM 8.2 L engines, double stamped with fractional and metric sizes
FBM322	2	1/2 x 3	.20-.30 mm, .40-.50 mm		10 3/4" long bent handle



FB307D

Diesel

Stock No.	No. of Blades	Blade Dimensions, inches	Blade Size	Increments	Description
FB307D	14	1/2 x 4 1/2	.008", .011" to .014", .016" to .018", .020", .023" to .025", .027", .029"	.001"	Bent Blade Cummins Diesel, blade ends are bent at 90° angle; blades are secured on FB307C1 ring

Feeler/Spark Plug Gauges



FB305A



FB3330



FBP10



FBS5

Specialty Feeler Gauges

Stock No.	No. of Blades	Blade Dimensions, inches	Blade Size	Increments	Description
FB305A	6	1/2 x 3	.006", .008", .010", .012", .014", .016"	.002"	Nonmagnetic, double stamped fractional and metric sizes

FB3330 Easy Grip Feeler Gauge Set. Double stamped with fractional and metric sizes. Includes 10 feeler gauges with orange screwdriver type handles. Blades are 4" long and feature a 45° offset for use on valve tappets and air gapping applications. Set is displayed in the FB33301 wood box. Blades included: .010, .012, .014, .016, .018, .020, .022, .024, .027 and .030". 25 blades available in all (.006 to .030") in .001" increments.

FBP10 Pocket Feeler Blade. Flat, ramp style feeler gauge handles full range of spark plug gapping requirements from .020 to .080". Reverse side has metric scale to 2 mm. Orange screwdriver type handle with pocket clip. 5 1/2" length.

Feeler/Gap Gauge Set

FBS5 Feeler and Gap Gauge Set. 5 pc set includes: FB300A bent blade feeler gauge, FB305A nonmagnetic feeler gauge, and FB325A general use feeler gauge, plus GA461C and FB360C spark plug gap gauges in the FBS5-1 kit bag.



FB6B040

Feeler Blades and Holder (Blue-Point®)

FB6B0015 thru FB6B040 (12") Feeler Gauge Blades. Includes 34 blades as follows:

Stock No.	Blade Size, Inches	Stock No.	Blade Size, Inches
FB6B0015	.0015	FB6B017	.017
FB6B002	.002	FB6B018	.018
FB6B0025	.0025	FB6B019	.019
FB6B003	.003	FB6B020	.020
FB6B004	.004	FB6B021	.021
FB6B005	.005	FB6B022	.022
FB6B006	.006	FB6B023	.023
FB6B007	.007	FB6B024	.024
FB6B008	.008	FB6B025	.025
FB6B009	.009	FB6B026	.026
FB6B010	.010	FB6B027	.027
FB6B011	.011	FB6B028	.028
FB6B012	.012	FB6B029	.029
FB6B013	.013	FB6B030	.030
FB6B014	.014	FB6B032	.032
FB6B015	.015	FB6B035	.035
FB6B016	.016	FB6B040	.040



FB301A



FB302A



FB303B



GA461C



FB360C



FB361A

Spark Plug Gauges/Gappers (Blue-Point)

FB301A Wire Gap for Point Ignition Systems Gauge. Includes 8 wires in sizes .020, .022, .025, .028, .030, .032, .035 and .040". Also includes an electrode bender.

FB302A Wire Gap for Aircraft, Motorcycle, and Small Engines Gauge. Similar to FB301A. Includes 8 wires in sizes .015, .016, .018, .020, .025, .028, .030 and .035". Also includes an electrode bender.

FB303B Wire Gap for Electronic Ignition Systems Gauge. Similar to FB301A. Includes 6 wires in sizes .044, .045, .050, .054, .060 and .080". Also includes an electrode bender.

GA461C Gap for Point Ignition Systems Gauge. Includes 6 wires protruding 1/4" from edge of metal disc. Wire sizes included are .025, .030, .034, .035, .040 and .045". Built in electrode bender. Double stamped with decimal and metric sizes.

FB360C Gap for Electronic Ignition Systems Gauge. Includes 6 wire sizes: .040, .044, .045, .050, .060 and .080". Double stamped with decimal and metric sizes.

FB361A Gapper Gauge. Pocket size gapper features an inclined ramp for setting gap. 1 1/2" diameter. Range .020 to .100". Double stamped with decimal and metric sizes.

Decimal/Metric Conversion Chart

Decimal, inches	Metric, mm	Decimal, inches	Metric, mm	Decimal, inches	Metric, mm	Decimal, inches	Metric, mm	Decimal, inches	Metric, mm	Decimal, inches	Metric, mm
0.0010	0.025	0.007	0.178	0.015	0.381	0.023	0.584	0.031	0.787	0.042	1.067
0.0015	0.038	0.008	0.203	0.016	0.406	0.024	0.610	0.032	0.813	0.044	1.118
0.0020	0.051	0.009	0.229	0.017	0.432	0.025	0.635	0.033	0.838	0.046	1.168
0.0025	0.064	0.010	0.254	0.018	0.457	0.026	0.660	0.034	0.864	0.052	1.321
0.0030	0.076	0.011	0.279	0.019	0.483	0.027	0.686	0.035	0.889	0.054	1.372
0.0040	0.102	0.012	0.305	0.020	0.508	0.028	0.712	0.036	0.914	0.056	1.422
0.0050	0.127	0.013	0.330	0.021	0.533	0.029	0.737	0.038	0.965	0.060	1.524
0.0060	0.150	0.014	0.356	0.022	0.559	0.030	0.762	0.040	1.016	0.080	2.032



WARNING



• Read safety precautions on pages W1 to W4

MEASURING

Measuring Sets/Straight Edges/Steel Rules



SQUARECOMB12

SQUAREB12

Measuring Sets (Blue-Point®)

SQUARECOMB12 Combination Measuring Set.

- Includes SQUAREB180 protractor, RULER12BSQ steel rule plus SQUAREB90 and SQUAREB45 sliding heads in fitted storage case

SQUAREB12 Machinist's Measuring Set.

- Includes SQUAREB90 sliding head and RULER12BSQ steel rule in fitted storage case

SQUAREB90 Sliding Head (90°).

- 90° square head with bubble level and scribe points

SQUAREB180 Protractor Head (180°).

- Protractor is graduated 180° in both directions
- Includes bubble level

RULER12BSQ Steel Rule (12").

- Precision ground and hardened steel blade for greater accuracy
- graduated in 1/8 and 1/16" increments on one side and 1/32 and 1/64" increments on the other

SQUAREB45 Sliding Head (45°).

- Center head for 45° angles only



GA438A

Precision Straight Edges

- Use with feeler gauges to check for distortion in engine blocks, cylinder heads, flywheels, main bearing saddles, cam bearing saddles, cam covers and bell housings
 - Precision working edge ground to within .0002" per 12" in length
 - Great stability with 1/4" thickness and 1 1/2" width
 - Convenient hanging hole and edge protector
- GA435 18" long. GA438A 24" long. GA535 35" long.



RULER120



RULER600



RULER601



RULER602

Steel Rules

RULER120 U.S./Metric Steel Rule.

- 12" stainless steel rule
- 1/32" increments for first 3", 1/16" increments for last 9"
- Metric edge is etched with mm and cm increments

RULER600 Steel Rule.

- 6" stainless steel rule
- graduated in 1/32 and 1/64" increments

RULER601 Steel Rule (6").

- 6" stainless steel rule
- graduated in 1/10 and 1/50" increments on one side, 1/32" and mm increments on the other

RULER602 U.S./Metric Pocket Rule (6").

- 6" stainless steel rule with pocket clip
- 1/32 and 1/64" increments on one side, mm and cm increments on the other

Tape Rules



TPMA10

TPMA12

TPMA25

TPMA5

TPMA25EM

TPM100

Auto-Retracting Tape Rules

TPMA10 Tape Rule (10) . 1/2" x 10' tape. Includes inch/metric scale with fractions.

TPMA12 Tape Rule (12) . 3/4" x 12' tape. Includes inch scale with 16" stud markings.

TPMA25 Tape Rule (25) . 1" x 25' tape. Includes inch scale with 16" stud markings.

TPMA5 Tape Rule (5 m) . 19 mm x 5 m tape. Includes metric scale.

TPMA25EM Tape Rule (25) . 1" x 25/7 m tape. Includes inch/metric scale with fractions.

Steel Housing Tape Rule

TPM100 Tape Rule (Blue-Point).

- Includes inch/metric scale
- Quick rewind design for ease of use
- Rewinding lever conveniently stored in housing
- Non-slip grip provides confidence and comfort

Lighted Mirrors (Blue-Point®)



YA5160A

YA5160A Lighted Adjustable Mirror.

- Mirror size is 1 1/8 x 2 1/8" with 1X magnification
- Thumb wheel adjustment on handle
- Light at base of 18" long flexible handle powered by 2 (AA) batteries (included)

YA51601 Replacement Mirror. 1X.

YA51602 Replacement Mirror. 2X.

YA5160A3 Replacement Bulb.



UIM225

UIM225RD

UIM225GR

UIM225OR

TKSS01MIR

UIM2LM

Telescoping Mirrors (Blue-Point)

UIM125 Telescoping Inspection Mirror.

1 1/4" diameter mirror. 6 1/2" long, and extends to 35".

UIM225 Telescoping Inspection Mirror.

2 1/4" diameter mirror. 6 1/2" long, and extends to 35".

UIM225RD Telescoping Inspection Mirror.

Same as UIM225 but with red handle.

UIM225GR Telescoping Inspection Mirror.

Same as UIM225 but with green handle.

UIM225OR Telescoping Inspection Mirror.

Same as UIM225 but with orange handle.

UIM325 Telescoping Inspection Mirror.

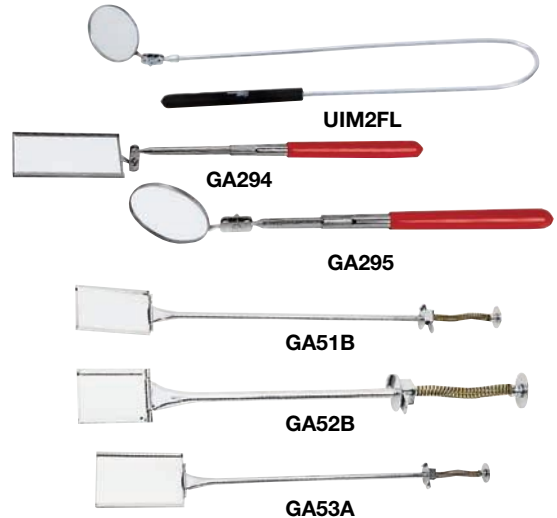
3 1/4" diameter mirror. 6 1/2" long, and extends to 29 1/2".

TKSS01MIR Telescoping Hinged Steel Mirror.

- Steel mirror won't shatter if dropped
- Hinged for accurate positioning, telescopes from 7 to 28 1/2" (177.8 to 723.9 mm)
- Mirror surface is 3.12 x 2" (79.4 x 50.8 mm)
- In retracted position, it will easily fit in shirt pocket

UIM2LM Magnifying Inspection Mirror.

- Stainless steel handle telescopes from 11 1/2 to 51 1/2"
- 2 1/4" magnifying mirror enlarges viewing area
- All angle ball joint holds mirror head tightly at any angle



UIM2FL

GA294

GA295

GA51B

GA52B

GA53A

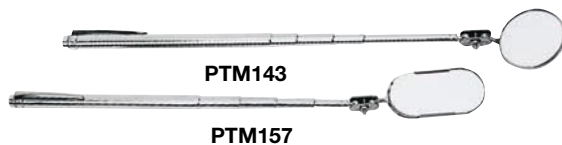
Hinged Mirrors (Blue-Point)

UIM2FL Flexible Inspection Mirror.

- 32" aluminum shaft can easily be bent to any angle
 - 2 1/4" mirror is encased in a rugged stainless steel head
 - All angle ball joint holds mirror head tightly at any angle
 - Textured cushion grip will not slip in wet or oily hands
- ### GA294 Rectangular Mirror.
- Double ball joints allow mirror to swivel 360
 - Electrolytic plated copper backing
 - Nonrotating telescoping rods
 - Vinyl grip
 - 2 1/8 x 3 1/2" mirror
 - Closed length is 11 1/4"; extended length is 15 1/4"

GA295 Round Mirror. Similar to A294 except with a 2 1/4" diameter mirror. Closed length is 10"; extended length is 14".

Stock No.	Overall Length, inches	Mirror Size, inches	Glass Replacement Mirror	Plastic Replacement Mirror
GA51B	16 1/2	1 11/16 x 2 9/16	GA51B1	GA51B1P
GA52B	11	1 3/16 x 1 1/2	GA52B1	
GA53A	16 1/2	2 5/16 x 3 3/8	GA53A1	GA53A1P



PTM143

PTM157

Pocket Mirrors (Blue-Point)

PTM143 Round Pocket Mirror.

Handle extends from 4 1/2 to 17". 1 1/4" in diameter. Hinge mechanism allows 360° adjustment. Includes pocket clip.

CF143MA Round Pocket Magnifying Mirror.

Handle extends from 4 1/2 to 17". 1 1/4" in diameter. Hinge mechanism allows. Includes pocket clip. 360° adjustment.

PTM147 Round Pocket Mirror. Handle extends from 4 1/2 to 17". 3/4" in diameter. Hinge mechanism allows 360° adjustment. Includes pocket clip.

PTM157 Oval Pocket Mirror. Handle extends from 4 1/2 to 17". 1" x 2" oval. Hinge mechanism allows 360° adjustment. Includes pocket clip.



UIM1LT

UIM2LT

UIM3LT

UIM2RSLT

LED Telescoping Mirrors (Blue-Point)

UIM1LT Lighted Inspection Mirror.

Telescopes from 6 3/4 to 35 1/2". Mirror is 1 3/8" diameter.

UIM2LT Lighted Inspection Mirror.

Telescopes from 6 3/4 to 37". Mirror is 2 3/8" diameter.

UIM3LT Lighted Inspection Mirror.

Telescopes from 6 3/4 to 30 1/4". Mirror is 3 3/8" diameter.

UIM2RSLT LED Lighted Inspection Mirror.

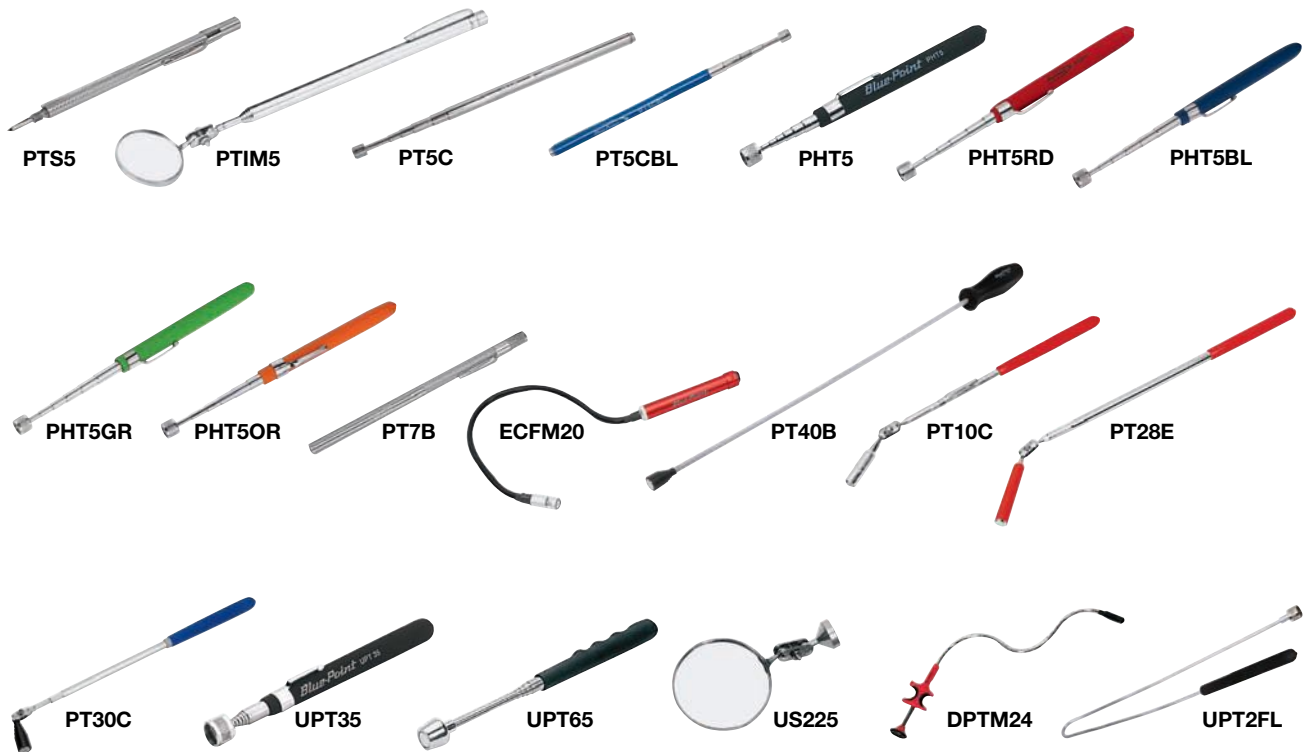
Telescopes from 6 3/4 to 30" for fast, accurate inspections. Mirror is 3 1/4 x 1 1/8".



WARNING



• Read safety precautions on pages W1 to W4



Magnetic (Blue-Point®)

PTS5 Magnetic Pick Up Tool/Scribe. Magnet in one end and a replaceable carbide steel scribe tip at the other. Includes pocket clip .5" long. Do not use as a pry bar or punch.

PTIM5 Pick Up and Inspection Tool. Magnet end lifts 1 1/2 lbs includes pocket clip. Length is 26 3/4" extended, closes to 5 7/8". Mirror end is 1 1/4" in diameter

PT5C Telescopic Magnetic Pick Up Tool. 5 7/8" extends to 25 9/16". Chrome. Magnet lifts up to 2 lbs. Includes pocket clip.

PT5CBL Telescopic Magnetic Pick Up Tool. Same as PT5C except blue.

PHT5 Magnetic Pick Up Tool. Lifts 2 1/2 lbs. Chrome plated shaft extends from 5 1/2 to 25 1/2". Black cushion grip will not slip in oily or wet hands. Includes pocket clip.

PHT5RD Magnetic Pick-up Tool (Red). Pocket Telescopic pick up tool with Powercap®. Tool lifts 2 1/2 lbs. Telescopes from 5 1/2 to 25 1/4". Powercap shields sides of magnet for focused lifting. Red Handle.

PHT5BL Magnetic Pick-up Tool (Blue). Same as PHT5RD except blue handle.

PHT5GR Magnetic Pick-up Tool (Neon Green). Same as PHT5RD except neon green handle.

PHT5OR Magnetic Pick-up Tool (Orange). Same as PHT5RD except orange handle.

PT7B Magnetic Pick Up Tool. Lifts 1 lb. 6" long.

ECFM20 Flexible Magnetic Pick Up Tool. 18" (457.2 mm) flexible shaft gets in tight places. Long lasting, bright LED light source. Anodized aluminum housing for lightweight and resistance to corrosion. Powerful neodymium magnet lifts 1.1 lbs (0.5 kg). Powered by 3 "N" alkaline 1.5 V batteries (included).

PT40B Flexible Magnetic Pick Up Tool. Magnet lifts 3 1/2 lbs. Length is 21", including a 14" flexible section.

PT10C Pick Up Tool. Lifts 1 lb. 8 5/8" long.

PT28E Pick Up Tool. Lifts 2 lbs. 16 3/4" long and extends to 26 3/4". Aluminum head. Probe O.D. is 1/2".

PT30C Pick Up Tool. Lifts 6 1/2 lbs. 17" long and extends to 27 1/8".

UPT15 Telescoping Magnetic Pick Up Tool. Lifts 2 lbs. 6 5/8" long and extends to 33 1/4"

UPT35 Telescoping Magnetic Pick Up Tool. Lifts 4 1/2 lbs. 6 5/8" long and extends to 33 1/4".

UPT50A Telescoping Magnetic Pick Up Tool. Lifts 10 lbs. 6 5/8" long and extends to 33 1/4".

UPT65 Telescoping Magnetic Pick Up Tool. Goblet shaped magnetic head directs the flux to the front of the magnet to lift 16 lbs. Head shields the sides of the magnet from attaching to unwanted ferrous surfaces. Telescopes from 9 to 34 1/4".

UPTM65K Magnetic Inspection Kit. Includes UPT65 pick up tool and US225 inspection mirror in vinyl pouch

US225 Inspection Mirror. Attaches to UPT65 pick up tool. Dual ball adjustment provides. 2 1/4" diameter infinite positioning.

DPTM24 Flexible Magnetic Pick Up Tool. When retracted, magnet will not adhere to untargeted ferrous metals. Depress plunger to expose magnet from shroud and grab desired object. 24" flexible shaft easily maneuvers through tight spots. Cushion grip handle provides comfort and control.

UPT2FL Flexible Magnetic Pick Up Tool. 29" aluminum shaft can be easily bent at any angle. Power cap slides over the magnet and shields its sides from attaching to unwanted metal surfaces. Will pick up 5 lbs with power cap.



UPT1LT



UPT2LT



UPTLP2



UPTC16MLT

Lighted Pick up Tools (Blue-Point®)

UPT1LT LED Magnetic Pick up Tool. Steel magnetic head lifts 8 lbs and will not attach to unwanted metal surfaces. Telescopes from 6 3/4 to 27 3/4".

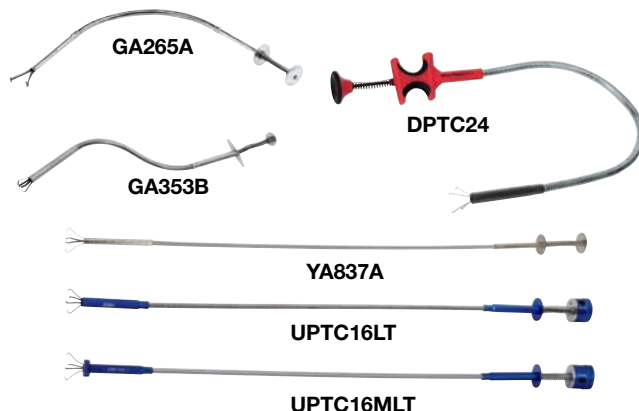
UPT2LT LED Magnetic Pick up Tool. Rotating magnetic heads lift up to 8 lbs. Telescopes from 8 to 32 3/4".

UPTLP2 Pen Light Pick up Tool.

- Newly designed steel magnetic head lifts 8 lbs and shields the sides from attaching to unwanted metal surfaces
- LED light illuminates dark areas
- Stainless steel handle telescopes from 8 to 32 3/4"

UPTC16MLT Lighted Flexible Spring Claw.

- Magnet able to pick up a maximum of 5 lbs
- 4 jaw claw opens wide to secure hard to reach objects
- Heavy duty aluminum plunger with convenient side switch turns on/off bright LED light as needed
- Tightly wound, flexible spring snakes into tight areas
- Comes with 2 round CR2032 lithium batteries
- 25 11/16" long



Claws (Flexible)

Stock No.	No. of Claws	Max. Jaw Opening, inches	Flexible Section Length, inches	Overall Length, inches
GA265A	2	1	8	17 3/4
YA837A	4	3/4	16	23 1/2
GA353B	4	1	8	17 1/2
DPTC24	4	1 1/4	18	24 1/2
UPTC16LT	4	1	16 3/4	26
UPTC16MLT	4	1	16 3/4	25 11/16

Brake Service Tools

Vacuum Pressure Pump Kit (Blue-Point)

YA4000B Automotive Test Kit.

- Produces vacuum or pressure at the turn of a switch
- Comfortable ergonomic design
- One finger trigger vacuum/pressure release
- Durable, accurate diaphragm type pressure/vacuum gauge
- Handheld vacuum/pressure pump with 2" compound gauge and rubber boot
- 12 oz fluid reservoir bottle with fluid transfer and storage lids plus fluid pick up tube
- 6 tapered adaptors for connecting to tubing from .09 to .50" ID
- 2 tapered manifold plugs
- 2 universal bleed screw adaptors
- 12 vacuum cap plugs, vacuum line T-adaptor
- (2) 1/4" ID x 24" long connection tubes with quick change connector
- 5/32" ID x 1/4" ID tubing adaptor
- 5/32" ID x 3" long vacuum test tube
- Rubber cupped adaptor
- Master cylinder refill kit

Applications:

Vacuum and pressure related engine performance diagnostics and tune ups; brake bleeding; fluid transfer, evacuation and sampling.



YA4000B



WARNING



• Read safety precautions on pages W1 to W4

BRAKE

Brake Lathes and Accessories



TECHNICAL SUPPORT
800-553-5953

Brake Lathes

YA180A On The Car Disc Brake Lathe.

- Use for machining of FWD disc brake rotors
- Vehicle engine turns disc during the machining process
- Mounts in place of the caliper, special mounting fixture reduces set up time
- Includes extension kit for most 4 wheel drive vehicles, 1 ton trucks and other large rotor applications
- Rotor diameter range 4 to 16", maximum rotor thickness 1 5/8"
- Add optional accessories below to expand versatility

YA180A Brake Lathe shown with optional YA189 Power Cutter Feed and YA280 Power Drive.

YA189 Power Cutter Feed.

- Automatically feeds cutter assembly across rotor face
- 115 V AC, 60 Hz

YA280 Disc Brake Power Drive.

- Eliminates the need to use vehicle's engine to turn rotor
- Allows YA180A to be used on FWD vehicles with rear disc brakes
- Fully adjustable drive hub fits most 4, 5 and 6 bolt hubs
- Adjustable from 33 to 56" working height
- 120 V AC, 60 Hz, single phase

YAH280-50 Disc Brake Power Drive.

- 220 V AC 50 Hz version of YA280



BTK10A

Carbide Insert Bit Kits

YAK109109223 Positive Rake Carbide Bits 10 Pack.

- For all Kwik-Way® lathes as well as older Snap-on® lathe models (YA282, YA278A and YA277 Series)

AMMCO9069141 Negative Rake Carbide Bits 10 Pack.

- Use for EEBR309A, EEBR312A and Ammco® brake lathes

AMMCO9076816 Positive Rake Carbide Bits 6 Pack.

- Use for EEBR310A, EEBR312A and Ammco brake lathes

AMMCO940410 Positive Rake Carbide Bits 10 Pack.

- Use for JBC brake lathes

AMMCO940435 Positive Rake Carbide Bits 10 Pack.

- Use for Accu-Turn® brake lathes

AMMCO940610 Positive Rake Carbide Round Toolbits 10 Pack.

- Round tool bits for AMMCO940630 tool holder

AMMCO940630 Positive Rake Round ToolHolder Set.

- RH & LH used with EEBR308A, EEBR309A and EEBR312A for AMMCO940610 tool bits

BTA10 Carbide Bits.

- For Ammco models 3000, 4000, 4100, 6900, 7000, and 7700

BTF10 Carbide Bits.

- For all FMC lathes

BTK10A Carbide Bits.

- For all Kwik-Way lathes as well as older Snap-on lathe models (YA282, YA278A and YA277 Series)



AMMCO905280

Silencers

AMMCO901175 Rotor Silencer.

- Clip on rotor silencer for OTV lathes

AMMCO901180 Rotor Silencer.

- Clip on rotor silencer for bench lathes

AMMCO905280 Silencer Band.

- For passenger car/light truck drums
- 1 3/4"

AMMCO905290 Silencer Band.

- For truck drums, 2 3/4"

AMMCO906920 Silencer Band.

- For ventilated rotors

AMMCO906921 Silencer Band.

- For nonvented rotors 6 1/2" diameter
- Package of 2

AMMCO906922 Silencer Band.

- For nonvented rotors 9 1/4" diameter
- Package of 2

AMMCO909800 Spring Silencer Assembly.

- For ventilated rotors

Vacuum Type Brake Bleeders (Blue-Point®)

BB700 Vacuum Brake Bleeder/Flusher.

- Unique dual mode throttle control allows dual fluid control: twist in one direction for vacuum bleed/flush mode, twist in the opposite direction for low pressure to return fluid into auto/truck system or to empty canister
- Bleed valve kit can be used when disconnected from air for mobile operation
- Dual use as either bleeder/flusher or fluid evacuator
- Unique hose disconnect system features a push ring for fast disconnections
- Hose wraps around head and locks on knob plus straw clamps in holder for easy toolbox or shelf storage
- Drains remaining fluid in hose after use to avoid messy cleanups
- 2.7 qt capacity canister
- Quiet operation
- O-ring seals for multiple fluids
- Seal ring opens and stays at top for easy service

BB700REF Refiller Bottle.

- Eliminates need to check fluid levels
- Guards against air entering into the brake system
- Facilitates effective 1 person bleeding process



BB700REF

BB700

BB5001

BB5002

Vacuum Type Brake Bleeders

BB500 Brake Bleeder Kit.

- Includes: BB5001 vacuum brake bleeder and BB5002 auto refiller bottle

BB5001 Vacuum Brake Bleeder.

- Fast, efficient 1 person vacuum bleeding
- Large 3 pint (1.5 liter) container. generates 25 in Hg vacuum with air pressure of 100 psi
- Specially formulated seals allow unit to be used with a variety of fluids
- On/Off valve and flow regulator: seals when not in use to prevent spillage
- Quick release locking trigger, safety shutoff valve, overfill check valve
- Compact design fits under wheel well
- 19 1/2" suction hose
- Universal brake screw fitting

BB5002 Auto Refiller Bottle.

- Automatically keeps reservoir filled to the correct level
- 20 fluid oz (592 ml) container
- Retaining clip for positive attachment
- Compact design fits under hood
- Positive venting system supplies continuous flow
- Fits virtually all master cylinder reservoirs: can be sealed when not in use to prevent spillage
- On/Off valve

Diaphragm Type Brake Bleeder Adaptors (Blue-Point)

Stock No.	Description
BB300B19	VW® Water Cooled Adaptor
BB300B20	Dual Bleeding Attachment
BB300B21	Pop off Valve
BB300B22A	Adaptor set, 7 pcs
BB300B26G	Universal Adaptor
BB300B29G	3 1/4" Universal Round Adaptor
BB300B35G	Universal Adaptor (required to use BB300B22A)
BB300B36G	GM® Dual Reservoir Adaptor
BB300B39GC	GM/Chrysler® Plastic Reservoir Adaptor
BB300B41-G9	Universal Rectangular Adaptor
BB300B42G	Universal Adaptor
BB300B45-G9	Universal Round Adaptor
BB300B47G	Chrysler Adaptor

Brake Bleeder (Blue-Point)



BB100C



YA8925

Non-Diaphragm Type Brake Bleeder

BB100C Nondiaphragm Type Brake Bleeder.

- 1 gal capacity
- Self contained, hand pressurized pump
- More than 10' of hose with shut off, pressure gauge and quick coupler for use with other brake bleeder adaptors (such as any of the BB300B adaptors)
- Use only D.O.T. 3 or D.O.T 4 automotive brake fluid

Master Cylinder Pressure Cap

YA8925 Master Cylinder Pressure Cap.

- M45 x 3.50 thread adapts to fluid reservoir and 1/4"-18 and 3.5 mm thread for pressure bleeder
- For Mercedes®, BMW®, Audi® and Porsche®



WARNING



• Read safety precautions on pages W1 to W4

BRAKE

Brake Service Tools



BCS70A



BTK7A



BTK5

General Service Sets

BCS70A Disc Brake Caliper Driver Set.

- For U.S. vehicles (except Chrysler®)
- 7 pcs

Stock No.	Description
FA8E	1/4" Hex Driver
FA10E	5/16" Hex Driver
FA12E	3/8" Hex Driver
FAM8E	8 mm Hex Driver
FTX40E	T40 Torx® Driver
FTXB45E	T45 Torx Driver
FTXB50E	T50 Torx Driver

BTK7A General Brake Service Set.

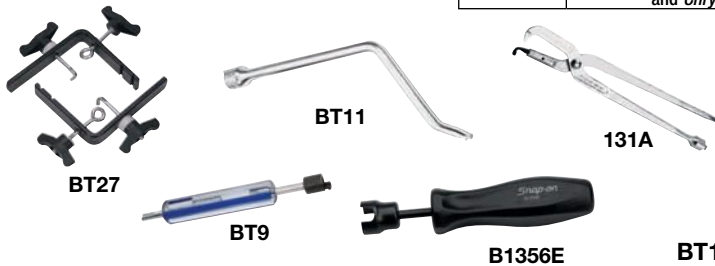
- 7 pcs in storage tray

Stock No.	Description
B1356E	Spring Tool
B1458C	9" Bleeder Wrench
B1461	8 1/4" Adjusting Tool
B3404B	Adjusting Tool (for Bendix® self adjusting brakes with star adjusting nut)
BT11	Spring Tool
S6112	Bleeder Wrench
B1467A	Bleeder Wrench (for GM®, Ford®, and Chrysler)

BTK5 General Brake Service Set.

- 5 pcs

Stock No.	Description
131A	Spring Pliers
B1461	8 5/16" Adjusting Tool
S6110A	Bleeder Wrench (For GM, Datsun®, and Honda®)
S6118A	1/4" Drive Spring Cap Socket
SGT4BR	1/4" Drive, 5 3/4" Long Shank Driver



BT27

BT11

131A

BT9

B1356E

Brake Spring Tools

BT27 Single Spring Brake Tool (GM) (Blue-Point®).

- Tool releases tension on both large and small GM single brake springs during servicing

Large Spring Applications:

2005 and later Chevrolet® Silverado, 2004 and later Chevrolet Colorado.

Small Spring Applications:

1991 and later GM H body (Bonneville, LeSabre and Delta 88), 1992 and later GM C and U body (Buick® Electra, Olds 88, Cadillac® Fleetwood and DeVille, Chevy Lumina APV, Pontiac® Tran Sport and Olds Silhouette), and 1995 and later Chevy Lumina and Chevy Monte Carlo vehicles.

BT11 Brake Spring Tool.

- Services Bendix brake springs and any spring attached to post
- Socket end removes; hook end replaces
- 9 3/4" long

131A Brake Spring Pliers.

- Removes or replaces Bendix, Lockheed® and other hydraulic and mechanical brake springs
- Steel hook on jaw is replaceable
- Handles provide socket type spring remover and hook end replacer
- 13 1/4" long

31-3B Replacement Hook.

- Replacement hook for 131A brake spring pliers

S6118A Spring Cap Socket.

- 1/4" drive double ended socket designed for subcompact brake spring on one end and larger domestic cars and light trucks on the other
- Industrial finish
- Use with TM4B driver



S6118A

BT19A

BT15

BT17A

BT19A Heavy Duty Brake Spring Tool (Blue-Point).

- Heavy duty design
- Remove or install import and U.S. brake springs with or without anchor pins
- Maximum wire I.D. is 1/4", overall length is 8 7/8"

BT9 Brake Spring Tool (Blue-Point).

- Quickly and easily removes or replaces springs
- Allows mechanics to press spring into place with one simple motion, replacing the slide mechanism
- Includes 2 mechanisms to allow easy removal and replacement of springs on brakes
- 8 3/4" long

B1356E Brake Retainer Spring Tool.

- For use on 3/4" retainer spring caps found on most newer vehicles

BT15 Remover.

- For removing brake springs on full size cars and pickups with drum style brakes
- Industrial finish
- 8 15/16" long

BT17A Retainer Spring Tool.

- For use on 5/8" diameter retainer springs found on most newer vehicles
- Industrial finish
- 8 15/16" long

Disc Brake Gauges and Micrometers

RM130 Rotor Micrometer (Blue-Point).

- Range of .30 to 1.3" in .001" graduations
- 3 1/2" deep frame
- Pointed anvil for checking grooves
- Includes 1" checking standard and storage case



RM130



GA3634

GA3634 Ball Joint/Disc Brake Test Indicator Set.

- Check ball joint wear, brake rotor runout, gear backlash, valve guide and camshaft wear
- Locking pliers clamp securely to any convenient object
- Eliminates vibration problems and false readings
- Includes CM6563450 storage case



DG530



RG430

Brake Drum/Rotor Gauges (Blue-Point)

DG530 Digital Drum Gauge.

- Measures automotive and heavy duty brake drums
- Pointed anvils and 4 1/4" long arms allow increased measurement accuracy and coverage
- Selectable depth stops for easier use
- Range 6 to 20.65" (150 to 515 mm); graduations are .0005" (.01 mm)

RG430 Digital Rotor Gauge.

- Measures brake rotors and ball joints
- Pointed anvil and 3 1/2" long arms for increased measurement accuracy and coverage
- Selectable depth stops for easy use
- Range 0 to 5.50" (0 to 140 mm); graduations are .0005" (.01 mm)



S9523



HSA716



B1468



BT4651

Truck Brake Adjusting Tools

S9523 Brake Adjuster.

- Star nut turning tool for Chevrolet® trucks with overload springs
- Different angles at each end of tool for clearance
- Blades are 17/32" wide; tool is 5 1/4" long

B1468 Brake Adjuster.

- For use on MC® and Chevrolet 1 1/2 and 2 ton trucks
- Tips on each end are bent 45° and then twisted 45° to allow access to brake adjusting mechanism
- 9 1/4" long

BT4651 Heavy Truck Slack Adjuster Set.

- Automatic slack adjuster tool set includes offset, reversible automatic release tool
- Release tool slides under the button of the pull-pawl on the automatic slack adjuster until fully seated while the wrench is used to adjust the brake to drum clearance
- Screwdriver handle for performance and comfort

HSA716 Slack Adjuster Wrench.

- For brake service and slack adjuster installation on heavy duty trucks equipped with Haldex® automatic slack adjusters
- Use to turn the manual adjuster hex
- Extra deep 7/16" hex allows reach to recessed adjusters
- 14 5/8" overall length helps to overcome the anti reverse mechanism
- Protective vinyl boot helps keep contaminants out of the ratchet mechanism for extended tool life



S9153B

B1462A



B3404B

B1461



S5912

S6004

Automotive Brake Adjusting Tools

S9153B Brake Adjuster.

- Designed to work around obstructions on M® vehicles
- Blades are 1/2" wide; tool is 7 7/8" long

B1462A Brake Adaptor.

- For rear brakes of those cars and trucks with trailing arm bolts
- Tang at each end is set at 68°, but in opposite directions for use on left and right hand sides
- 8 1/2" long

B3404B Brake Adjuster.

- For Bendix® self adjusting brakes and other brakes with star adjusting nut (except Chevrolet)
- Blades are 17/32" wide with 1/32" tip thickness
- 8 3/16" long

B1461 Brake Adaptor.

- One end has a wide tang set at a 29° angle for rear brakes; other end is set at a 45° angle for front brakes
- 8 1/4" long

S5912 Brake Adjuster.

- For use on VW®, Mazda®, Omni and Horizon
- Each tang tapers to a 1/4" tip width
- One tang is straight; other is offset 45°
- 8 1/2" long

S6004 Brake Adjuster.

- For use on 1969 and later Toyota® when self adjusting brakes are being dismantled
- One end is offset 15°; other is 60°
- Tapers to 1/4" tips
- 5 1/4" long

S6005 Brake Adjuster.

- Similar to S6004
- For use on 1969 and later Toyota when a complete dismantling of the self adjusting brakes is required
- One end is angled at 60°; other end features a special offset
- Each tang tapers to a 1/4" tip width
- 5 1/4" long



BSA916

BSA916 Slack Adjuster Wrench.

- For brake service and slack adjuster installation on heavy duty trucks equipped with Bendix automatic slack adjusters
- Use to turn the manual adjuster hex
- Extra deep 9/16" hex allows reach to recessed adjusters
- 14 1/2" overall length helps to overcome the anti reverse mechanism
- Protective vinyl boot helps keep contaminants out of the ratchet mechanism for extended tool life



WARNING



• Read safety precautions on pages W1 to W4

BRAKE

Brake Service Tools



Disc Brake Tools

MPBS11400 Prybar/Brake Tool.
 • Designed specifically for prying/aligning brake applications such as brake pistons, calipers or rotors
 • Strong 3/8" square alloy steel bar with straight tip
 • 11" total length with 40° offset ensures access into tight wheel wells
 • Large, comfortable, high visibility orange handle with striker cap allows a good grip unlike small, hard to hold brake adjustment tools
 • Handle length: 5 1/2". Exposed bar length: 5 1/2"; bar: 3/8"; tip width: 3/8"; Tip type: Straight tip

YA8610B Universal Brake Caliper Tool Set (Blue-Point®).
 • Assists in replacement of brake pads on most 4 wheel disc brake cars
 • Tool and adaptors position brake piston back into caliper to allow clearance for newer, thicker brake pads
 • Designed for most Audi®, Chrysler®, Ford®, M®, Honda®, Jaguar®, Mazda®, Mini Cooper®, Mitsubishi®, Nissan®, Saturn®, Subaru®, Toyota®, VW® and Volvo® vehicles
 • Set includes 1 tool and 6 adaptors in a storage case

YA6730 Brake Caliper Tool Set (Blue-Point). Combines the main body from the YA8610B set and the YA8610B-7 adaptor.

YA8610B-7 Brake Caliper Tool Adaptor (Blue-Point). Use on *Mazda 3* (2004 and later), *Mazda 5* (2006 and later), *Mini Cooper* (all 2002 and later), *Volvo S40* (2004 1/2 and later), *Volvo V50* (2006 and later), *Volvo C30* (2007 and later), *Pontiac Solstice* (2006 and later), *Saturn Sky* (2007 and later) and *Jaguar X type* (2006 and later).

YA2440 Pad Spreader (Blue-Point). For use on most U.S. and import cars and light duty trucks with single piston disc brakes without parking brakes. Compresses the disc brake piston for easy pad installation.

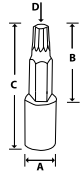
GA395 Spreader (Blue-Point). For standard 4 piston caliper disc brakes. Frees hands to assemble caliper over rotor. 6 3/4" long.

BL55A Brake Cylinder Retainer Remover. Use on late model GM cars including X-body cars. Expands and holds retainer for cylinder disassembly or assembly.

FTSM4E Metric Triple Square Driver. Use on VW/Audi door handle screws 1998 and later, brake drum fasteners on VW Toureg plus many other 4 and 5 mm triple square applications.

FTSM5E Metric Triple Square Driver. Use on VW/Audi door handle screws 1998 and later plus many other 4 and 5 mm triple square applications. Also use on 2003 to 2008 Porsche Cayenne to loosen the cover on the adjustment cable for the emergency brake.

FTSM6E Metric Triple Square Driver. For VW disc brake caliper.



Stock No.	Size, mm	Finish	Description	Type	A	B	C	D
FTSM4E	4	Chrome	Standard Length	Triple Square	17.2	21.6	48.5	FTSM4E2
FTSM5E	5	Chrome	Standard Length	Triple Square	17.2	21.6	48.5	FTSM5E2
FTSM6E	6	Chrome	Standard Length	Triple Square	17.2	21.6	48.5	FTSM6E2

YA9329A Piston Rotation Tool (Blue-Point).
 • Use to rotate piston back into caliper cylinder when replacing pads
 • Also rotates parking brake cylinder back into the caliper cylinder on vehicles with 4 wheel disc brakes
 • For 1975 and later Ford and Mercury® plus some imports vehicles

BT350A Brake Piston Press (Blue-Point).
 • Presses single or dual pistons
 • Quick and easy to use: no nuts or bolts involved in pressing operations
 Applications: most cars plus light and heavy duty trucks

YA6425 Universal Brake Caliper Tool (Blue-Point).
 Left hand thread is essential to service brake calipers on newer Ford models such as Freestyle, Ford 500 and Mercury Montego. Includes #2 adaptor.

BTG8 Brake Pad/Shoe Gauge Set (Blue-Point).
 • Color coded gauges provide instant feedback: Red indicates service required, yellow indicates caution and green indicates an OK situation
 • Constructed from 20 gauge sheet metal with durable powder coat finish

Red 2 mm (0.0787")	Yellow 4 mm (0.1575")	Green 8 mm (0.3150")
Red 3 mm (0.1181")	Yellow 5 mm (0.1969")	Green 10 mm (0.3937")
	Yellow 6 mm (0.2362)	Green 12 mm (0.4724)

BTCP1 Brake Caliper Press (Blue-Point).
 • Works on both fixed and floating calipers
 • Generates more than 1,600 ft lbs of force to retract the toughest caliper pistons
 • Single lever mechanism used to apply and release force for ease of operation and faster service
 • Prevents damage to pistons, hubs or calipers
 • Ensures parallel piston retraction on dual and quad piston calipers
 • Easy left and right side use

BTCP500 Brake Caliper Press (Blue-Point).
 • Works on twin and quad piston fixed calipers as well as single and twin piston floating calipers
 • Centrally located ratchet evenly spreads force in a parallel manner to prevent misalignment of pistons
 • Ratchet technology gives a full 360° swing
 • Extended reversing lever allows for easy change from spreading to retracting

Brake Service Tools



Truck Brake Tools

B1359B Brake Retainer Spring Tool.

- For Chrysler® and Ford® 3/4 ton trucks equipped with Bendix® brakes
- U-shaped end is offset 30 to 45° for easy removal of brake shoe to backing plate spring

BT518 Brake Shoe Tool.

- For large trucks and trailers with air brakes with “S” cam design
- Provides leverage to back out brake shoe and remove roller cam
- Industrial finish

BT12 Brake Spring Tool.

- Services brake shoe retracting springs on trucks using Bendix, Wagner® and Kelsey-Hayes® systems
- Unique shape permits access and leverage

YA9070A Rear Brake Adjusting Tool.

- For single axle Lucas® steering brakes found on 1984 and later F-600 and larger Ford trucks and buses
- Has all the right angles to reach through the backing plate
- Industrial finish

BT1360 Brake Spring Tool.

- Remove brake shoe retaining springs from heavy duty Ford, M®, Dodge® and International® trucks
- Large, comfortable handle
- Constructed for strength and durability

Applications: *Ford*: F250, F350, P250, P350, P400 *GM*: 1 ton, some 1/2 ton *Dodge*: B300, D200, D300, P200, P300

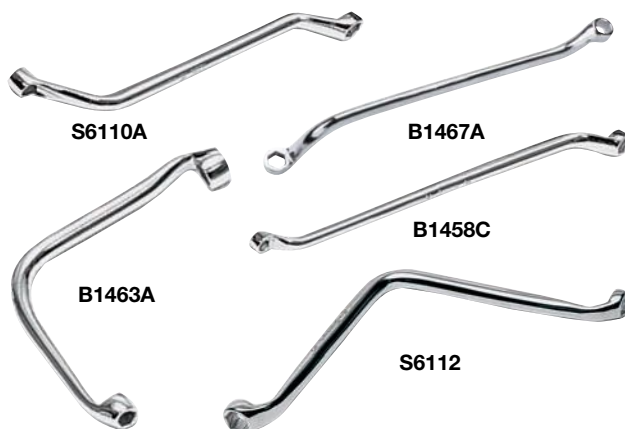
International: 1200 Series, 1300 Series trucks

BT400 Brake Spring Tool (Heavy Duty) (Blue-Point®).

- For brake springs on 3/4 ton and heavier trucks
- T-handle for generating maximum torque when encountering stiff springs
- Head may be rotated 360° to clear obstacles
- Overall length of 7 3/4"

TAP1 Truck Anchor Pin and Bushing Press.

- Designed to remove brake anchor pins and bushings on 16 1/2" “Q type” S-cam tractor and trailer brake systems from Dana-Spicer®, ArvinMeritor® (Rockwell®), Eaton®, Timkin® and Fruehauf®. Removes brake pins and bushings without removing wheel hub
- Pressure pad retaining rings hold pads firmly in place
- 2 hand operation
- Interchangeable pressure pads allow removal of bushing alone or simultaneous pin/bushing removal
- Zerk grease fitting lubricates and flushes dirt from pressure screw for long life
- Designed for use with 3/4" impact guns
- Storage case



Bleeder Wrenches

S6110A Bleeder Wrench.

- For GM, Nissan® and Honda®
- 8 mm, 6 point box end; 10 mm on the other
- Ends are offset for clearance
- 192 mm long

B1460B Bleeder Wrench.

- Similar to S6110A
- 3/8" box end for brake bleeding work and a 7/16" box end for brake shoe eccentric bolt adjustment
- Offset clears drag link arm and recessed backing plate on front wheel
- 9 1/2" long

B1467A Bleeder Wrench.

- For GM, Ford and Chrysler vehicles
- Similar to S6110A
- 5/16" and 3/8" single hex box ends are offset for access to bleeder fittings
- 8 1/2" long

S6143 Bleeder Wrench.

- For most imports
- Similar to S6110A
- 7 and 9 mm, 6 point box ends are offset for clearance
- 252 mm long

B1458C Bleeder Wrench.

- Includes 1/4" and 3/8" single hex box ends
- 9" long

B1463A Bleeder Wrench.

- 1/4 to 3/8", 6 point box ends are tapered for clearance
- 3 3/4" long arms (for smaller bleeder fittings on most compact cars)

S8184 Bleeder Wrench.

- For fittings on most GM vehicles
- Similar to B1463A
- 3/8 and 5/16", 6 point box openings
- 4" long arms

B1470 Bleeder Wrench.

- Similar to B1463A
- For late model GM and most imports vehicles
- 8 mm, 6 point box end; 10 mm on the other
- Wrench has a 90° bend for access
- Arms are approximately 100 mm long

S6112 Bleeder Wrench.

- For some GM and Toyota® vehicles, plus select imports
- Similar to B1463A
- 8 mm, 6 point box on one end; 10 mm on the other
- Wrench has 90° bend for access
- Arms are 130 mm long

S6111 Bleeder Wrench.

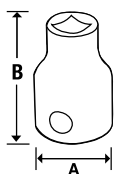
- Covers 90% of late model U.S. applications including late model Chrysler, Dodge, Ford, GM, Audi®, Mercedes® and VW® vehicles
- 10 and 11 mm 6 point Flank Drive® wrenching configuration
- Ends are offset for extra clearance
- 235 mm long

**WARNING**

- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages W1 to W4

BRAKE

Brake Service Tools



PMP406A



YA2780



B240B



SIML160



BT22A



BR1

Wrenches and Sockets

PMP406A Internal Metric Pipe Plug Socket. For rear brake adjustments on 1973 to 1986 Subaru. 3/8" drive, 6 mm internal square socket.

mm	Stock No.	A	B
6	PMP406A	17.2	25.8

Brake/Throttle Depressor

B240B Throttle Depressor (Blue-Point®).

- Holds throttle at a constant RPM, easily adjusts to desired length
- Adjustment screw fine tunes desired RPM
- Rubber tip keeps the tool firmly positioned on the accelerator pedal
- Overall length of 40"

YA2780 Brake Resetting Gauge.

- Automatically sets brake shoe size when measuring against drum walls
- Positive locking section ensures an accurate reading every time
- Improved range of 6 1/2 to 13 1/4"

Emergency Brake

SIML160 6 Point Extra Deep Impact Socket.

- Use for removing or replacing fuel tank retaining strap nuts
- Also has applications on emergency brake adjustment nuts and stabilizer retainers
- 1/2" square drive; 1/2", 6 point wrench opening
- 5" long

SIML180 Socket.

- Same design as SIML160, except hex size is 9/16"

Emergency Brake (Blue-Point)

BT22A Parking Brake Cable Tool.

- Designed to remove parking brake cables from the brake backing plate and chassis mounting bracket
- Double ended tool has Ford® Escort, Topaz and Tempo® applications on one end while the larger end services most other vehicles

BR1 C-Ring Pliers.

- Opens the C-ring on the emergency brake actuation lever when changing rear brake shoes on many domestic cars, trucks and imports

BR2 C-Ring Pliers.

- Holds the C-ring without slipping during installation

Hones (Blue-Point)



JT64



CF63

2-Arm Hone and Stone Sets

JT64 2-Arm Hone. For 1/2 to 2 1/4" diameter cylinders. Includes 2 medium grit stones, each 1 1/8" long.

JT64-1 Stone Set. Set of 2 medium (220 grit) stones for JT64. 1 1/8" long.

JT64-14 Stone Set. Set of 2 fine (400 grit) stones for JT64. 1 1/8" long.

3-Arm Hones and Stone Sets

CF63 3-Arm Hone. For 3/4 to 2 1/2" diameter cylinders. Adjustable thumb nut to control tension.

CF68 3-Arm Hone. For 1 1/4 to 3 1/2" diameter cylinders. Adjustable thumb nut to control tension.

Stone Sets

Stock No.	Grit (Qty)	Length, inches
CF63-100	100 (3)	1 1/8
CF63-1	240 (3)	1 1/8
JT63-21	220 (3)	2
CF63-34	240 (3)	3/4
CF63-14	400 (3)	1 1/8
JT63-24	400 (3)	2



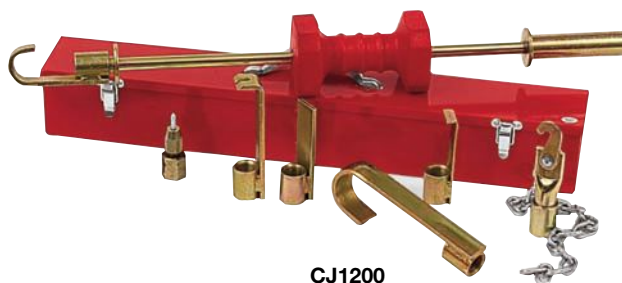
CJ107



CJ114



YA2002



CJ1200



BM175

Pullers

CJ107 Body Dent Puller.

- Slide hammer action pulls out dent for filling
- L hook included for larger jobs
- 4 lb slide hammer

CJ114 Body Dent Puller.

- Mainly for rocker, quarter, back and door panels
- Includes screw for puncturing sheet metal plus a bodyman hook and seal hook for larger jobs
- 3 lb slide hammer

YA2002 Quarter Panel Puller.

- Removes dents from rear quarters and wheel wells
- (2) 12" tubes (with different dimensions) fit most wheel well openings
- Use with chain attached to frame machine or portable power unit

CJ1200 Slide Hammer Puller Set.

- Contains a 12 lb, contour formed slide hammer and a variety of attachments for auto body repair work

Body Repair Kits (Blue-Point®)

YA1544A Body Repair Kit.

- 4 ton capacity kit includes hydraulic unit, 5 Snap-Set extensions, spreader and a full selection of attachments for most push applications: 18 pc kit includes durable storage case
- Auto pump overload system protects against damage to rams and equipment
- 1/2 ton capacity hydraulic spreader has 2" jaw and spreads from 5/8 to 3 3/4"
- Flex head includes permanently molded rubber pad
- Heavy walled extension tubes stand up to the toughest loads
- Long handle reduces required pumping effort

YA1545 Body Repair Kit.

- 10 ton capacity kit includes: hydraulic unit, 4 extensions (4, 10, 18 and 27"), spreader and full selection of attachments in custom fitted, rugged and wheeled storage case
- Pumps rated from 8,000 to 10,000 psi
- Portable for use on the road or in the shop

Applications: pushing, spreading and pressing of vehicle body panels as well as various component parts and assemblies

Alignment Bar

BM175 Alignment Bar.

- Use to align bumpers, window posts, wheel wells, panels, hoods, decks and brackets
- 6', 1/4" chain has hooks welded to each end for easy attachment to body components
- 4 1/2" long, 1 1/2" diameter tubing



BM101

Push-Pull Jack

BM101 Push-Pull Jack.

- Capable of 3,000 lb push-pull power
- Aligns, straightens and removes dents
- Multi purpose hook on jack head, plus a hook on the 55" long friction rod
- Friction rod flexes to maintain constant pressure without bending, while the grooved end prevents slipping
- 3 position handle



YA1544A



YA1545



WARNING



- Operate hose only while it is within cylinder
- Read safety precautions on pages W1 to W4

Hammers



BF618B



BF630B



BF610B



BF632B



BF604B



BF608B



BF611B



BF617B



BF631B



BF603B



BF614B



BF635

Hammers

BF618B Wide Nose Peen Hammer.

- Bumps odd fender contours

BF632B Door Panel Hammer.

- For door and body panel bumping
- Smaller diameter head is offset 45°
- Fiberglass handle

BF611B Picking and Dinging Hammer.

- Smooths small dents and general dinging

BF603B Long Spot Pick Hammer.

- For bumping when filing or where metal is covered with soundproofing material

BF630B Spot Pick Hammer.

- Same design as BF603B except with blunted pick end

BF604B Wide Nose Cross Peen Hammer.

- For finishing and caulking

BF617B Shrinking Hammer.

- Extra large faces for large area work
- Serrated for shrinking and smooth for finishing

BF614B Long Picking Hammer.

- For turret and fender work

BF610B Hammer Shrinking.

- Same design as BF617B except serrated shrinking face is square
- Finishing head on other end

BF608B Short Curve Cross Peen Hammer.

- Use under fenders with rolled edges: use finishing face for dinging

BF631B Cross Peen Shrink Hammer.

- Combines pick end of BF604B and serrated face of BF617B

BF635 Door Skin Hammer.

- For door skin replacement
- Narrow, rectangular faces work in tight flange area
- High crown straight head with 1 5/16" radius for finishing thin sections without poking holes
- Medium crown head with 25° offset and 3 1/2" radius for working on narrow flanges against the door structure
- Fiberglass handle offers excellent balance and high strength

Hammer Specifications

Stock No.	Head Length, inches	Round Face Diameter, inches	Peen End Size, inches	Handle Length, inches	Head Weight, oz.
BF618B	5	1 9/16	3/16 x 7/8	12	12 1/2
BF632B	6 5/8	1 1/4 - 1 5/8		13	16
BF611B	4	1 15/32		12	8
BF603B	6 1/8	1 19/32	1/16 x 7/16	13	12 1/2
BF630B	6	1 19/32	1/4 x 7/16	13	12 1/2
BF604B	5 1/2	1 5/8	5/8	13	11 1/2
BF617B	4 1/2	1 7/8		13	16
BF614B	8 5/8	1 5/8		17	16
BF610B	4 1/4	1 7/8		13	16
BF608B	5 5/16	1 5/8	5/8 x 1/16	13	11 1/2
BF631B	5 1/2	1 7/8	5/8	13	11 1/2
BF635	7	1 7/16 - 1 5/8	5/8 x 1 1/2 5/8 x 2	12	16

Hickory Handles

Stock No.	Length, inches	Hammers Used On
BF603-2R	13	BF603B, BF604B, BF608B, BF617B, BF610B, BF630B, BF631B, BF633, BF634
BF611-2R	12	BF611B, BF615, and BF618B
BF614-2R	17	BF614B

Body Tool Sets

Body Tool Sets

2005BFA Body Tool Set.

- Contains CJ114 body dent puller plus BF608B and BF611B body hammers, BF716B dinging spoon and BF711B heel dolly (5 pcs)

2007BFB Body Tool Set.

- 7 of the most common tools necessary for professional body work: BF716B spoon; BF608B, BF611B, and BF617B body hammers; and BF710B, BF711B and BF712B dollies



2005BFA



2007BFB

Snips (Blue-Point®)



CD12A

CD10A

CD16A

Tin Snips

Cut straight, circular or irregular patterns; right or left cuts.

CD7A Duckbill Snips. 1 1/2" blades, 7" long.

CD10A Duckbill Snips. 2 1/4" blades, 10" long.

CD12A Combination Snips. 3" blades, 12" long.

CD16A Bulldog Snips. 2 1/2" blades, 16" long.



DAR9A

Aviation Snips

- Offset blades allow cut material to flow beneath your hand without curling
- Maneuverable for angle cutting or pattern configurations
- Cuts up to 18 gauge mild steel
- 1 1/8" cutting edge
- 9 1/2" long

DAR9A Snips. Green handled. Right hand cut.

DAL9A Snips. Red handled. Left hand cut.



SNP2A

Light Duty and All Purpose Snips

SNP2A Angled Multipurpose Heavy Duty Shears.

- For leather, cloth, plastic, rubber, cardboard, gasket material, rope and other materials
- Ergonomic handles can be used right or left handed: soft molded grip for comfort and control
- Blade is notched for hard wire and twine
- Locking switch ensures safety during storage
- Control switch allows blades to be held in a tighter position for easier handling
- Angled shears allow easier cutting through flat materials

Shears/Cutters (Blue-Point)



DAL10B

DAS10B

DAR10B

Metal Cutting Shears

DAS30 Metal Cutting Shears Set.

- Serrated cutting blades
- Narrow bodies allow metal to pass over shears
- Oil and grease resistant grips
- Each shear is 10 1/4" long

Includes:

DAS10B Shears. Yellow handled. Straight cut.

DAR10B Shears. Green handled. Right hand cut.

DAL10B Shears. Red handled. Left hand cut.

Shop Shears

HDSCISSORS

Heavy Duty Shop Scissors.

- For leather, cloth, plastic, rubber, cardboard, gasket material, rope and many other materials
- Ergonomic handles can be used right or left handed



HDSCISSORS

Vinyl Cutter

YA444B Vinyl Cutter.

- Cleanly cuts plastic, rubber, vinyl, upholstery, leather, hoses and rope
- Ergo® grip handle with safety lock
- Blade storage in handle
- Includes 3 stainless steel replacement blades (YA444B-1)

YA444B1 Replacement Blades.

- Includes 3 replacement blades and anvil for YA444B



YA444B



WARNING



- Do not use chipped, mushroomed, or cracked hammers
- Strike squarely, avoid glancing blows
- Do not strike hard surfaces, use only for striking sheet metal
- Read safety precautions on pages W1 to W4

Spoons and Dollies

Spoons

BF715B Spoon Dolly.

- For caulking and forming deep pockets in doors and panels
- Head size is 2 1/2" x 1" x 3"; 14" total length



BF715B

BF716B Light Dinging Spoon.

- Smooths and levels ridges
- Not for prying
- Head size is 4 1/4" x 2"; 10" total length



BF716B



BF710B



BF707



BF711B



BF712B



BF740

Steel Dollies B173.5 -1991 applies to all dollies.

BF710B Toe Dolly.

- For dinging flat surfaces
- Measures 4 3/4" x 2 1/4" x 11/16"
- 2 1/2 lb

BF707 Heel Dolly.

- For use in sharp corners and wide radii
- Rubber coating provides cushioning effect
- Measures 3" x 2 1/2" x 1 1/2"

BF740 Shot Dolly.

- Heavy duty leather pouch is filled with 2 1/2 lbs of shot
- Essential for supporting irregular shapes and contours on doors, fenders, and other body panels
- Thin profile to get in tight areas
- Will not scratch surface; 3 3/4" W x 5 3/4" L

BF711B Heel Dolly.

- For use in sharp corners and wide radii
- Measures 3" x 2 1/4" x 1 3/8"; 2 1/4 lb

BF712B General Purpose Dolly.

- For deep, skirted fenders and shrinking when using heat
- Measures 3" x 2 1/4" x 1 3/8"
- 2 1/4 lb

Riveting



HP2



HP301C



HP310



HP302C



HP320

Riveting Tools (Blue-Point®)

HP2 Rivet Tool.

- 4 nosepieces for 3/32 to 3/16" diameter rivets
- For 1/8 to 5/8" thickness
- Made of aluminum alloy

HP30N Optional Rivet Nosepiece.

- Use with HP2 rivet tool to replace OEM welded studs on trim molding
- For rivets with 1/8" body diameter
- 7/32" head diameter

HP301C Pneumatic/Hydraulic Rivet Tool.

- Sets structural rivets, Klik-Fast® rivets from 5/32 to 1/4" diameter in all alloys plus *Klik-Fast* Monobolt® rivets from 3/16 to 1/4"
- Requires only 85 to 95 psi 1/2" NPT threads
- Delivers 3,300 lbs of work force at 5/8" stroke
- Includes 5/32, 3/16 and 1/4" nosepieces plus mandrel collection bottle
- Overall weight 6.6 lbs

HP302C Pneumatic/Hydraulic Rivet Tool.

- Smaller, lighter version of HP301C
- Sets blind rivets from 1/8 to 3/16" diameter in all alloys plus 3/16" *Klik-Fast* and *Monobolt* rivets
- Includes 1/8, 5/32 and 3/16" nosepieces plus mandrel collection bottle

HP310 Pneumatic/Hydraulic Rivet Tool.

- Sets 3/32 to 1/4" diameter rivets in all materials
- Can also set T-Rivet®/*Klik-Split*, *Klik-Lock*™ and all other structural rivets
- Includes 3/32, 1/8, 3/16, 5/32 and 1/4" nosepieces plus mandrel collection bottle

HP320 Pneumatic/Hydraulic Rivet Tool.

- Sets 1/8 to 3/16" diameter rivets in all materials
- Includes: 1/8, 5/32 and 3/16" nosepieces plus mandrel collection bottle

Specifications	HP301C	HP302C	HP310	HP320
Recommended Air Pressure, psi	85-95	85-95	85-95	85-95
Air Consumption, average, cfm (scfm) [l/min]	5 (36) [141.58]	4 (29) [113.27]	5 (36) [141.58]	4 (29) [113.27]
Air Inlet Thread Size	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT
Traction Power, lbs	3,300	1,985	3,055	1,983
Stroke, inches (mm)	5/8 (15.8)	5/8 (15.8)	9/16 (14.3)	9/16 (14.0)
Overall Length, inches (mm)	12 (304.8)	11 (279.4)	12 (304.8)	11 (279.4)
Weight, lbs (kg)	6.6 (3.0)	4.2 (.91)	4.2 (.91)	3.3 (.50)

Riveting Tools (Blue-Point®)

HPS202 Rivet Tool.

- Head swivels 360° to rivet at any angle
- Fasten metal, leather, canvas and vinyl
- Sets 3/32, 1/8, 5/32 and 3/16" rivets
- 4 interchangeable nosepieces store in handle when not in use



HPS202

Rivet Kits (Blue-Point)

HP200A Riveter Kit.

- Includes: HP2 rivet tool, 1/8" drill bit and 200 assorted rivets in 1/8 and 3/16" diameters plus a 120° countersink



HP200A

HPKL2 Plastic Rivet Kit.

- For plastic rivets that hold fascia strips, inner fenders and other plastic parts on M®, Ford®, Chrysler® and VW® vehicles
- Includes: rivet setter and 4 styles of plastic rivets (2) 5 mm types, (2) 6.3 mm types



HPKL2

HP300 Large Blind Rivet Kit.

- Extra long 21" handled riveter includes 3 nosepieces
- Includes a bag of 50 Klik-Split® rivets
- Reorder quantities of Klik-Split and Klik-Fast® rivets are packaged 50 per bag



HP300

Nut Setting

Nut Setting/Thread Setting Kits (Blue-Point)

HP650M Metric Thread Setter Kit.

- Metric version of the HP650 with metric polynuts, including 25 each 4 and 5 mm, (15) 6 mm and (10) 8 mm threads
- Includes thread setter tool, required nosepieces and mandrels packaged in a storage case

HP650 Thread Setter Kit.

- Includes: rugged thread setter tool and an assortment of fractional Klik Poly-Nuts: 12 each 8-32, 10-24, 10-32; (8) 1/4"-20 and (6) 5/16"-18 threads
- Includes required nosepieces and mandrels for setting the above sizes
- Packaged in a storage case



HP650M

Files



BF193

Nib File

BF193 Nib File.

- Removes unwanted paint runs, helps eliminate dribbles and drops
- Entirely shaves run without digging into surface



14V

Flexible Curved Tooth Files

14V Curved Tooth File. 14", 8 teeth per inch. Rough cut.

Use with BF775C Handle.

14V12 Curved Tooth File. 14", 12 teeth per inch. Fine cut.

Use with BF775C Handle.



GA616



BF775C

File Handles (Blue-Point)

- Wooden, twist on handles with case hardened threaded steel inserts

GA616 File Handle. For 8CT curved tooth file.

GA617 File Handle. For 10CT curved tooth file.

GA618 File Handle. For 12CT curved tooth file.

BF775C Flexible File Holder.

- Light and rigid with a large aluminum handle, adjustable turnbuckle and permanently attached strap



WARNING



• Read safety precautions on pages W1 to W4

Window and Windshield



GA243



YA109C



WK100

Window and Windshield Removal Tools (Blue-Point®)

GA243 Molding Release Tool.

- Use to remove window and windshield moldings on cemented glass

YA109C Windshield Removal Tool.

- Steel cable pull handle
- Replaceable steel cutting blades can be resharpened
- For M®, Chrysler® vehicles and other cars with windshields set in place with sealant

WK100 Windshield Knife.

- Cuts hardened urethane down to the dash
- Flush blade retention screw helps prevent damage to the dash and moldings
- Rigid aluminum shaft will not flex
- Long length provides cutting leverage and reach
- Cushion grip handle for extra comfort
- Includes 1 blade
- Uses YA1860 replacement blades
- 18" long



YA5200A



WSC2

Window Scrapers (Blue-Point)

YA5200A Razor Blade Scraper. Unique shape fits into tight spots such as the area between dash and windshield. Use any standard, single edge razor blade. Storage for extra blades in screwdriver style handle. 11" long.

WSC2 Plastic Blade Window Scraper. Scrapes windows, windshields and more. Includes a plastic blade or use any standard, single edge razor blade. 8" long tool folds to only 4 5/8".



WK200



YA208A

WK200 Windshield Knife.

- Cuts hardened urethane down to the dash
- Flush blade retention screw helps prevent damage to the dash and moldings
- Rigid aluminum shaft will not flex
- Long length provides cutting leverage and reach
- Vinyl grip handle for extra comfort
- Includes 1 blade
- 24" long
- Uses YA1860 replacement blades

YA208A Windshield Locking Strip Installation Tool.

- Wedge openings in 2 widths make short work of installing nearly all locking strips
- Includes special tip for Dodge® truck applications
- 4" contoured handle and 4" metal shank



A192



S9610

Window and Windshield Removal Tools

A192 Windshield Wiper Arm Removal Tool.

- Easily remove wiper arms on most vehicles
- Both wide and narrow prying ends
- Do not use on wiper arms bolted to the shaft

S9610 Window Sash Nut Spanner Socket.

- 3/8" drive and 15/32" long
- For GM and Chrysler cars and light trucks



YA6390

Window Holder (Blue-Point)

YA6390 Window Holder.

- Holds side window glass up when working on the regulator
- Suction cups are attached to both sides of the glass with a cable over the door frame, preventing the glass from falling down the door

Door Tools (Blue-Point®)



DHW1



DHS108



YA6620

Door Hinge Tools

DHW1 Ratcheting Bit Wrench.

- Reverse lever positioned for one hand operation.
- 10 3/4" overall length for leverage
- Knurled wheel for fingertip control
- Low head clearance gets in tight spots
- Internal ring in square drive provides more secure bit retention than the magnetic type EU - B

Stock No.	Description	Size	Hex Size, inches	Length, inches
BMAS60	Triple Square Bit	6 mm	5/16	13/16
BMAS80	Triple Square Bit	8 mm	5/16	13/16
BMAS100	Triple Square Bit	10 mm	5/16	13/16
BMAS120	Triple Square Bit	12 mm	5/16	13/16
SDMTAS30	Torx Bit	T30	5/16	13/16
SDMTAS40	Torx Bit	T40	5/16	13/16
SDMTAS45	Torx Bit	T45	5/16	13/16



LPK620



YA511



YA501E



YA610A



YA520



BF272



LOS145

Lock Picks/Lockout Tools

LPK620 Master Lock Pick Set.

- 37 pc set includes 6 pc import rocker pick set, 12 pc pick set for GM vehicles, 5 pc Ford automotive rocker lock pick set, 6 pc Chrysler® lock pick set, 6 pc set for wafer locks on import vehicles, harpoon pick for removing broken keys, tweezer type universal lock turning wrench and a gas cap pick tool

YA511 Lockout Tool Set.

- Contains 17 specialized tools for unlocking car, van and truck locks. Includes many of the components of the YA501E set plus additional service components
- Also includes a penlight and instruction manual in a multicompartment kit bag

YA501E Lockout Tool Set.

- Contains 15 specialized tools for unlocking car, van, and truck locks
- Includes J-tool for Japanese vehicles, as well as GM tool to service Caprice, Buick® and Oldsmobile® vehicles
- Included Chrysler tool also services Toyota® Camry vehicles
- BF272 Inflatable Wedge and instruction manual also included

YA521 Lockout Tool Guide.

- Comprehensive and illustrated guide showing the best tool and method for unlocking most current model vehicles

YA610A Lock Opening Reforming Tool.

- Reforms damaged lock openings to original contour on GM, Ford, Chrysler and most import cars

DHS108 Door Hinge Removal Set.

- Door hinge applications include VW®, Audi®, Jeep® Cherokee (1997 and 1998) and early model Ford® Escort
- Various applications on Audi, VW, and Mercedes® vehicles plus Mercedes rear toe adjustment and head bolts on some early models
- Set includes DHW1 ratcheting bit wrench, BMAS60 through BMAS120 triple square sockets (6 to 12 mm) and SDMTAS30 through SDMTAS45 Torx sockets (T30 to T45)
- Plastic storage pouch and bit holder included EU - B

YA6620 Door Hinge Bushing Installer for GM® Vehicles.

- Use on GM vehicles with replaceable silicon bronze door hinge bushings
 - Tool provides easy access to restricted areas of the hinge
 - Accurately guides and holds the bushing in place while tapping with a hammer or squeezing with pliers
- Applications: Chevrolet® S10 and Sonoma (1982-2004), 1/2 and 3/4 ton trucks (1980-1999), 1 ton trucks (1980-2001), Blazer (1980-2005), Suburban (1980 and later), Tahoe (1980 and later), Astro and Express (1980 and later) and Avalanche (2002 and later)

BF272 Inflatable Wedge.

- Offers safe entry in a lock out situation without damage to the body finish
- Slip the deflated unit between door frame and body, inflate wedge by slowly applying pumping pressure to pull the door away from vehicle body
- Can also be used to gain entry by separating the weather stripping from the vehicle window or to adjust body panels

YA520 Door Lockout Kit.

- Includes: 2 plastic wedges to create gap between door and frame, Day-lo® yellow easy access Jim to reach inside door handles and plastic slim Jim for use on door knobs

LOS145 Door Lockout Set.

- No danger of airbag activation or disconnected door linkages
- Actuate the door handle, manual lock button or electric lock button on most cars and trucks
- Includes: 4 pc door unlocking tool that screws together without couplers for easy assembly and storage, plastic slim jim, 2 glow in the dark tips, 2 plastic wedges to create gap between door and frame without damaging door or weather stripping and BF272 inflatable wedge
- Use the BF272 to easily separate door from body without damage to the vehicle
- Unlocking tool features a middle extension piece to reach across the car in extended use applications
- For sale to registered locksmiths, police and bona fide repair professionals only



WARNING



- Do not use "cheater bars" on handles
- Read safety precautions on pages W1 to W4

Door Tools



UTV614A



UTV615A



UTV616A



UTV617A



UTV618A

Set Contains:

UTS105A

Upholstery and Trim Tools (Blue-Point®)

- Remove door and trim panels quickly without damage
- Wide blades on door tools reduce risk of damage during panel removal
- Stainless steel blades are heat treated for rigidity
- Comfortable composite handles feature a contour thumb stop for maximum control



YA331



YA1201

Specialty Door Tools (Blue-Point)

YA331 Clip Removal Tool.

- Tapered forks slide under most types of auto body clips
- A squeeze of the handles pops the clips out

YA1201 Door Panel Remover.

- For M® and Ford® vehicles
- Designed to prevent plastic barbed fasteners from being pulled through the panel



YA214

YA214 Door Hinge Adjuster.

- Adjusts door hinge position on most vehicles
- Works on either bolted or welded hinges
- 2 headed pin adaptor allows adjustment on doors with both small and large latches
- 24" overall length

Soft Grip Trim Pad Tools

- Remove fasteners that secure door panels and trim pieces without damage to panel or trim
- Soft grip handles with contour thumb stop
- Distinct pivot point is designed for appropriate leverage and to discourage twisting that may damage panel or trim piece

Set Contains:

ASG103BR

Stock No.	Opening Size, inches	Blade Width, inches	Overall Length, inches	
ASG185BR	7/32	9/16	10	•
ASG186BR	3/8	13/16	10	•
ASG187BR	3/8	13/16	20	•
ASG188BR	7/16	13/16	10	
ASG189BR	7/16	13/16	20	
ASG190BR	3/8	13/16	20	



ASG185BR



ASG186BR



ASG187BR



ASG189BR



ASG188BR



ASG189BR



ASG103BR



ASGD1BR



ASGDL1BR

Set Contains:

ASGD102BR

Soft Grip Dished Trim Pad Tools

- Smooth dish profile and wide gap to fit vehicles utilizing conical x-mass style retainers for quick removal without damage
- Dished blade for better door panel clip and retainer contact
- Soft grip handle for comfort and control
- Chrome finish helps prevent corrosion and facilitates cleanup

Applications: Ford, GM, Toyota® and more

Stock No.	Opening Size, inches	Blade Width, inches	Overall Length, inches	
ASGD1BR	7/16	13/16	10	•
ASGDL1BR	7/16	13/16	20	•

Door Tools/Specialty Tools

Door Handle/Trim Pad/Trim Nuts

DPT7A Door Tool Set.

- Includes the 7 most needed tools for removing or replacing door trim, trim pads and handles
- Storage tray

A159 Door Handle Tool.

- For most M® cars and trucks (except Cadillac®), plus some Ford® cars
- Plastic dipped offset handle
- 10 7/8" long

A161B Trim Pad Remover.

- For GM, Ford and Chrysler® vehicles
- Features a screwdriver type handle
- 7 3/4" long

A177A Trim Pad Remover.

- For GM vehicles and most imports
- Same design as A161B except for different applications
- 7 1/2" long

A179A Trim Pad Remover.

- For all GM door trim panels
- Curved blade helps remove plastic clips and nail type clips without damage to either the clips or the trim

S9614A Trim Nut Driver.

- For GM vehicles
- Similar to S6103A but is for use with 5/16" internal hex trim nuts
- 1/4" drive, 1 7/8" long overall

S9538A Door Handle Tool.

- For most late model Chrysler vehicles
- Hook end is designed for use on older style handles

S6103A Door Trim Palnut Driver.

- For Ford and GM vehicles
- For easy servicing of 3/8" internal hex trim nuts used on door trim panels and molding
- 1/4" drive, 1 7/8" long overall

A181 Trim Pad Remover.

- Services plastic trim fasteners on Honda®, Toyota®, Acura®, Hyundai® and some Ford trucks
- Similar in design to A161B. 7 1/2" long
- Not included in DPT7A set

Body Clip Tools (Blue-Point®)

YA335 Body Clip Pliers.

- Steel levers enclosed in PMS plastic to prevent scratches
- Tips have a specified angle and size that deliver the most versatile clip tool on the market
- Eliminates need to buy multiple sets of trim clip pliers for different applications
- Specially designed and patented pliers will remove any clip found on trim, bumpers, etc.

YA336 Body Clip Pliers.

- Will remove almost any clip type from trim, bumpers, etc.
- Ergonomic tool with special angled tips for access to tight spaces
- Steel levers encased in glass filled nylon for lightweight comfort
- Length: 9"; Jaw length: 1 1/2"

Suction Cups

BF801 Heavy Duty Suction Tool.

- Pull out dents or handle glass
- Handle increases pulling power
- 5" suction cup

BF802 Heavy Duty Dual Suction Cup Tool.

- For pulling more stubborn dents or lifting larger materials
- Handle has plenty of room for 2 hands
- Trigger releases both 4" cups simultaneously

BF803 Suction Cup.

- 2 finger grips for easy lifting, 2 projecting tabs for quick release
- 3 1/4" diameter



Picks/Rods

BF200 Pull Rod Set.

- Drill 9/64" holes and pull metal to shape
- Includes 4 pull rods, 2 pick pulls, a straight edge and a drill bit
- Rods lift metal without distortion
- No need to remove upholstery

102STMML Long Socket Set

- Long sockets handle the long thread of bumper cover fasteners where deep sockets cannot
- 10 and 11mm are the most popular fastener sizes for bumper cover bolts found on most European and U.S. vehicles
- Flank Drive® wrenching configuration where the socket grips the fastener on the flanks/flats increasing torque by up to 15 to 20%
- Manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean

FLCE120 TORX® Socket with Countersink

- Use to remove/install fasteners that hold window regulators in place for BMW® 5 and 7 Series
- FLCE120 Torx socket with a shallow countersink is designed for use on the BMW Torx fasteners so you can engage the fastener
- Most standard Torx sockets will not engage the special BMW Torx fasteners



WARNING

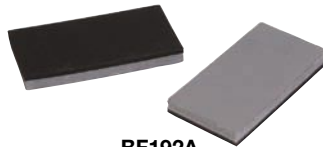


- Plastic handle does not protect against electric shock
- Read safety precautions on pages W1 to W4

Specialty Tools



BF185A



BF192A



BF190



BF195



BFS1000B



NYZ7007HD

Sanding (Blue-Point®)

BF185A Sanding Block.

- For flat or curved surfaces with wet or dry sandpaper
- 5 x 2 3/4"

BF189A Sanding Block.

- For flat or curved surfaces with wet or dry sandpaper
- 5 x 2 3/4"

BF190 Sanding Block.

- All purpose, multi radius, edge and flat sander
- Flexible body conforms to most sanding surfaces
- 5 1/2" long

BF192A Sanding Block.

- Double sided, wet/dry sanding block
- Soft side sands irregular surfaces
- Stiff side sands flat and curved surfaces

BF195 Sanding Block.

- Multi purpose, radius, groove angle and corner sander
- Flexible body conforms to most surfaces; 5 1/2" long

Bumper Cover Paint Stands

BFS1000B Bumper Cover Painting Stand.

- Stand holds the bumper cover securely for painting
- 5 different locking positions on the stand and full 90° rotation provide maximum versatility
- Lightweight at 23 lbs and compact to store
- Casters provide full mobility

Water Body Dye

YAUWATER Water Body Dye.

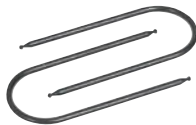
- Ideal for use by auto body and glass repair shops
- Fluorescent dye easily detects gaps causing wind noise plus leaks around sunroofs, door trim, trunk lids, window seals and windshields
- Simply mix bottled dye with water and spray over outer area
- Check for leaks with UV lamp
- Easily cleaned off with water after repair
- Recommended for use with ACTUVLITEA UV light kit

Mastic Removal Tools

NYZ7007HD Manual Mastic Removal Kit.

- Manual kit contains an assortment of 15 Nyroc® blades and an ergonomic rubber handle
- Ideal for aviation, automotive and industrial use, especially for delicate jobs and limited access scraping applications
- Nyroc blades are easily sharpened with sandpaper, small stone or optional pneumatic sharpener
- Includes: (6) 1" Nyroc blades, (6) 1/2" Nyroc blades, (3) 1/4" Nyroc blades and (1) ergonomic rubber handle

Antenna/Mirror/Radio



YA7575



RRT105



S8703



S9605B

Mirror and Radio Trim Sockets

YA7575 Radio Removal Tool for Ford Vehicles (Blue-Point).

- Insert tool components into holes on the radio faceplate to release the retaining clips on the radio
- Same as Ford No. T87P-19061-A

Applications: 1987 and later Mustang, 1988 and later Tempo®/Topaz, 1989 and later Continental, 1990 and later Taurus/Sable, Ranger Bronco II, Probe, Lincoln Town Car, Mark VII, Crown Victoria/ rand Marquis, Thunderbird/Cougar, F-Series pickups, E-Series vans, 1991 and later Explorer and 1995 and later Windstar vehicles

RRT105 Car Stereo Removal Tool Kit.

- Includes: 6 tools for car stereo removal
- Enclosed instruction sheet lists exact model application for each manufacturer
- EU - B

Applications: Audi®, BMW®, Ford, Land Rover®, Lincoln, Mazda®, Mercedes®, Mercury®, Merkur®, Porsche®, Saab® and VW®

S8703 Remote Control Mirror Socket.

- Hollow socket clears adjustment lever; 2 prong socket has a 3/8" square drive
- 19/32" diameter on drive end; 21/32" diameter on socket end
- 2 1/16" long
- Nickel chrome finish
- Services many Ford and VW vehicles

S9605B Radio Trim Nut Socket.

Similar in appearance and function to S8703. 1/4" square drive. 7/16" diameter on drive end; 9/16" diameter on socket end. 2 5/16" long. Services some GM and Ford vehicles.



S6166

Antenna Nut Socket

S6166 Antenna Nut Socket.

- 3 prong socket with 11/16" external hex
- 3/4" diameter, 1 1/2" long
- Services 1987 later Chrysler® vehicles



2160ANT

2160ANT Antenna Wrench (Blue-Point®).

- 4 configurations will fit most antenna bezel nuts on U.S. and imported vehicles
- 10 mm opening for removing mast type antennas
- Measures 7 1/4" x 1 1/2" x 1/8"
- Anodized finish

General Service Tools



SWDK4

Spot Weld (Blue-Point)

SWDK4 Spot Weld Cutter Set.

- 4 pc cutter set designed for high speed cutting of up to 2,000 rpm
- Self centering points minimize walking
- SWDK412 Spot Weld Cutter.** 1/2".
- SWDK414 Spot Weld Cutter.** 1/4".
- SWDK438 Spot Weld Cutter.** 3/8".
- SWDK4516 Spot Weld Cutter.** 5/16".



BFLIGHT1500A

Heat Guns

ET1400 Heat Gun.

- Variable temperature selection
- UL® / CSA® listed
- Up to 1,050 F with 3 way switch



ET1400

Infrared Curing Light

BFLIGHT1500A Infrared Curing Lamp (120 V AC).

- Use to cure paint, primer, body filler, bonding adhesive and plastic repair products
 - Adjustable lamp height and pivot
 - 4 swivel casters for easy maneuverability
 - UL listed
- Cure times at 18" from surface:
- 10 minutes - 2 K primers, waterborn base coat, filler/stoppers
 - 15 minutes - 2 K plastic repair, plastic body fillers, acrylic enamels
 - 30 minutes - 2K top coats, high build primers, structural adhesives
 - 35 minutes - polyurethane, synthetic enamels, high solids clear

Headlamp Aiming



B4A13



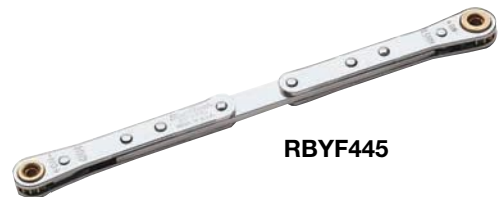
B4A14



B4A5



B4A10



RBYP445

Headlight Aiming Adaptors

B4A13 Large Aerodynamic Adaptors.

- For large lamps (one pair)

B4A14 Small Aerodynamic Adaptors.

- For small lamps (one pair)

B4A5 Rectangular Adaptor.

- For 4" x 6 1/2" lamps with aiming pads in 4 lamp systems

B4A10 Rectangular Adaptor.

- For 5 1/2" x 8" lamps in 2 lamp systems

Headlamp Adjusters

RBYP445 Ratcheting Headlight Wrench.

- 8" overall length allows access to headlight adjustment screws
- Applications work on most late model Ford® vehicles with 4 and 4.5 mm adjusters (found on aerodynamic designs) and headlights with rear mount adjusters



HE52B

Headlamp Spring Tools

HE52B Headlamp Spring Tool.

- For servicing alignment springs
- 3/16" diameter shank anchored in a screwdriver style handle
- 7" long



WARNING



• Read safety precautions on pages W1 to W4

PAINT SPRAY

Spray Guns (Blue-Point®)

A new generation of *Blue-Point* spray guns for primer, base and clear coat. Designed for the automotive refinishing painter. Lightweight and well balanced while delivering a quality, first class automotive finish. Lowest trigger pull among guns in its class. Unmatched spray pattern size and quality repair kits. Optional interchangeable 125, 250 and 600 cc aluminum cups are available. Optional 3M® PPS adaptor is available. Full 1 year warranty.



BLP13HVLP

BLP14HVLP

BLP15HVLP

BLP18HVLP

BLP10MHVLP

Full Size/Miniature - HVLP

Stock No.	BLP13HVLP	BLP14HVLP	BLP15HVLP	BLP18HVLP	BLP10MHVLP
Fluid Tip, mm	1.3	1.4	1.5	1.8	1.0
Air Consumption, scfm	9.5	9.5	9.5	9.5	7.0
Max. Inlet HVLP psi (bar, kPa)	29 (2.0, 200)	29 (2.0, 200)	29 (2.0, 200)	29 (2.0, 200)	29 (20, 200)
Dry Weight without Cup, oz (grams)	12.6 (359)	12.6 (359)	12.6 (359)	12.6 (359)	11.4 (322)
Air Inlet Thread Size, NPSM	1/4"	1/4"	1/4"	1/4"	1/4"
Cup Size, cc	600	600	600	600	125
Application	High solids, colors and clears	High solids, colors and clears	Medium solids, colors and clears	Primer, high viscosity materials	Primer, base and clear

Economy - HVLP

Stock No.	Fluid Tip, mm	Air Consumption, SCFM	Air Inlet Thread Size, NPSM	Air Pressure Range, psi	Fluid (Water) Delivery	Cup Size, cc
BLPK14HVLP	1.4 mm	14.5	1/4" NPSM	30 to 43	190 to 250 ml/min	600 ml

Full Size - Conventional

Stock No.	Fluid Tip, mm	Air Consumption, SCFM	Max. Inlet HVLP psi (bar, kPa)	Dry Weight without Cup, oz. (grams)	Air Inlet Thread Size	Cup Size, cc	Application
BLP14CONV	1.4 mm	9.5		12.6 (359)	1/4" NPSM	600	All automotive colors and clears



BLPK14HVLP



BLP14CONV

Spray Gun Accessories



BF7130

Air/Fluid Hoses

BF7130 Air/Fluid Hose Kit.

- 6' hose kit for the BF652 pressure cup
- Kit includes 5/16" I.D. air hose with 1/4" FPT connectors and 1/4" I.D. fluid hose with 3/8" FPT connectors

BF7220 Fluid Hose. 25' x 3/8" I.D. fluid hose with 3/8" FPT connectors.

Air Caps and Service Kits

BF16111 Air Cap. General duty cap (red ring).

BF16113 Air Cap. Clear coat cap (gold ring).

BF16114 Air Cap. Material organizer cap (blue ring).

BF501RK Service Kit. For BF501 spray guns.

BF590RK Service Kit. For BF590 spray guns.

Pressure Cups and Tanks

BF602 Low Pressure Cup Assembly.

- 32 oz capacity
- Recessed check valve to maintain cup pressure and relief valve to relieve cup pressure
- For use with previous models BF595SYS30 and BF595SYS45 paint guns



BF602



BF511

BF511 Detail Cup.

- 6 oz capacity
- Tough, translucent and high density polyethylene
- For use with BF510/BF515HVLV detail guns

BF503 Universal Siphon Cup.

- 32 oz capacity
- Fits all leading spray guns
- Won't drip in any position
- 3/8" NPT(f) swivel nut attachment



BF503

Gravity Feed Cups

BF7505 Aluminum Miniature Gravity Feed Cup.

- 4 oz (125 cc) capacity
- Miniature aluminum gravity feed cup
- Includes adaptor to fit Snap-on® HVLV gravity feed spray guns plus previous model BF814A Non-HVLV gravity feed spray gun



BF7505



BF521A



BF520A



BF530A



BF540A

Air Filters/Air Control Units

BF521A Air Control Unit.

- Includes regulator with 160 psi inverted gauge and air cock
- 2 regulated outlets
- 1 filtered main line outlet
- Air Inlet: 1/2" NPT(f). Filter Capacity: 75 CFM
- Regulator capacity: 50 CFM

BF520A Air Filter.

- Reusable edge type 5 micron filter element
- Highly effective at removing water, oil and other contamination
- Air Inlet: 1/2" FPT Air Outlets: 3/8" FPT and 1/4" FPT (plugged). Filter Capacity: 75 CFM

BF530A Air Filter.

- Reusable edge type 5 micron filter element
- Highly effective at removing water, oil and other contamination
- Air Inlet: 1/2" FPT Air Outlet: 2 outlets @ 3/8" FPT Filter Capacity: 120 CFM

BF540A Mechanic's Air Filter.

- Portable, mounts easily anywhere
- Designed for use with quick couplers
- Air Inlet: 1/4" FPT Air Outlets: 1/4" FPT and 1/4" FPT (plugged). Filter Capacity: 75 CFM



BF525



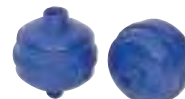
BF555



BF550



BF1210



BF7000

Air Valves/Air Regulators

BF525 Air Pressure Regulator.

- 2 regulated outlets
- Includes 160 psi air gauge and air cock (1/4" MPT)
- Capacity: 50 CFM

BF555 Air Adjusting Valve (with Gauge).

- Designed for use with HVLV spray guns
- Includes 160 psi pressure gauge
- Air Inlet: 1/4" MPT Air Outlet: 1/4" FPT (swivel nut)

BF550 Air Adjusting Valve.

- Precision tapered valve
- Full open to close with approximately 4 turns: infinitely adjustable
- Large, easy to handle knob
- Air Inlet: 1/4" MPT Air Outlet: 1/4" FPT (swivel nut)

BF1210 "Green Zone" Air Regulator.

- Reads both inlet pressure and air cap pressures

BF7000 Disposable InLine Filter.

- Disposable filter removes contaminants that condense in the air hose between wall mounted filter and spray gun
- Reduces paint defects
- Easy installation
- Card of 2 filters



BF1400



BF1410



YA999

Air Pressure Regulators

BF1400 Air Pressure Regulator.

- Self relieving diaphragm
- Maximum 100 psi inlet pressure
- 0 to 10 psi regulated pressure to cup
- 0 to 30 psi air pressure gauge

BF1410 Air Pressure Regulator.

- Small, lightweight, true diaphragm miniregulator attaches to any spray gun (including HVLV models) for accurate air pressure regulation
- Push/Pull lock pressure setting
- Features easy to read 0 to 160 psi gauge
- Capacity of 22 CFM (158 SCFM) [623 L/MIN.]

YA999 Air/Water Separator.

- Separates water from compressed air
- Includes drain valve for periodic draining
- 3 1/2" L. 1 1/2" diameter



WARNING



• Read safety precautions on pages W1 to W4

PAINT SPRAY

Spray Gun Accessories



AHCC90C



AHCCP90C

High Volume Hose Connectors

AHCC90C Quick Coupler.

- High volume 1/4" female quick coupler
- Designed to deliver high volumes of air to spray guns and air tools

AHCC91C Quick Coupler.

- High volume 1/4" male quick coupler
- Designed to deliver high volumes of air to spray guns and air tools

AHCCP90C Nipple.

- Quick connect 1/4" female nipple
- Designed to deliver high volumes of air to spray guns and air tools

AHCCP97C Impact Wrench Adaptor.

- Use with AHCC98C high flow coupler to improve low pressure performance of 1/2" drive impact wrenches and other high air consumption tools

Air Brushing



BF180B

BF180B Air Compressor.

- Portable 1/10 HP oil-less diaphragm type compressor features internal bleed
- Compact, lightweight and quiet
- Maximum running pressure of 33 psi 115 V, 60 Hz, 2.5 A



BF360

BF360 Airbrush Set.

- Rotating paint reservoir allows gravity or bottom feed
- Engineered to require only 1 size tip, regulator and needle for application of any properly reduced medium including acrylics gouache, inks, dyes, enamels, lacquers and stains
- Includes: airbrush, (2) 2 oz jars, (1) 3/4 oz jar, 6' braided hose, extra needle and tip plus foam lined storage case



BF175TA

BF175TA Airbrush Set.

- Dual action, internal mix, bottom feed airbrush
- Choice of fine, medium or heavy needle/heads
- Sprays a wide range of properly reduced acrylics, enamels, lacquers, glazes and airbrush ready paints
- Includes: airbrush, mixing jars, air hose, color cup, airbrush hanger, extra tip, spray regulator, needle and instruction manual in a storage case



MRB20

Paint Gun Hooks / Holders

MRB20 Magnetic Paint Gun Hook.

- Eliminates having to drill holes in your paint booth to hang your paint gun
- 160 lbs of magnetic force

BF9893 Spray Gun Holder.

- Stand holds up to 3 gravity feed paint spray guns at one time for refilling
- Adjustable strainer holder
- Steel construction



BF9893



BF170A

BF170A Airbrush Set.

- Dual action, internal mix, bottom feed airbrush
- Single needle/nozzle design sprays a variety of reduced acrylics, enamels, lacquers, glazes and airbrush ready paints
- Excellent choice for multiple applications
- Includes: airbrush, mixing jars, air hose, color cup, airbrush hanger, extra needle and instruction manual



BF171

BF171 Airbrush Set.

- Single action, external mix, bottom feed airbrush
- Air and paint mix outside the airbrush, creating a larger, coarser dot pattern while providing a heavier spray volume
- For base coating, touch up projects and automotive painters
- Sprays higher viscosity materials like glazes, stains, enamels and lacquers
- Includes: airbrush, mixing jars, air hose and instructions



BF105

BF105 Gravity Feed Airbrush Set.

- Ideal for graphic arts and automotive illustration
- Dual action, internal mix, gravity feed airbrush for professional results
- Precise performance for tight line detail
- Single needle, single tip configuration
- 1/3 oz permanently mounted color cup
- Sprays any properly reduced paints
- Operates with lower pressure
- 10 to 15 psi
- Optional needle, regulator and tip available to create a finer spray
- Ergonomically balanced for hours of comfortable spraying

Paint Gun Cleaners

Cabinet Style Paint Gun Cleaner

PGC500A Paint Gun Cleaner.

- Cleans paint guns in less than 2 minutes
- Meets SCAQMD air quality rule 1171
- Air safety switch on lid
- Features a high torque rotary vane air motor that requires only 7 CFM at 60 psi
- Regulator and gauge are included
- Seal less magnetic drive pump supplies powerful cleaning action, no seals to wear out or replace
- Sprays solvent at 85 psi
- Reduces solvent consumption up to 90%. Measures 30" H, 26" L and 24" W in the top



PGC500A



EQFSC45M

Specifications	EQFSC45M
Outside Height	65"
Outside Width	43"
Outside Depth	18"
Inside Height	60"
Inside Width	40"
Inside Depth	15"



YA7327



BFCB101

Paint Gun Cleaning Brushes (Blue-Point®)

YA7327 Paint Gun Cleaning Brush (Set of 5).

- For "external" paint guns
- Can be used with commonly used cleaning solvents (don't use with solvents marked "corrosive")
- Nylon bristles
- 7 1/2" L

YA7329 Paint Gun Cleaning Brush (Set of 5).

- Similar to YA7327 but designed for "fluid tip" paint guns
- 7 3/4" L

BFCB101 Paint Gun Cleaning Brush Kit.

- General purpose spray gun cleaning kit
- Includes 7 pc stainless steel needle set with handle, 5 pc precision minitwisted brush set, 3/8" pick up tube brush (12" L), 3/16" nylon end brush, 1/2" nylon body cavity brush, nylon bristle exterior body brush and 1/4" nylon HVLP brush

Flammables Storage Cabinet

EQFSC45M Flammables Storage Cabinet.

- Store volatile liquids like paints, solvents, alcohol, acetone, gasoline and other chemicals
- 16 gauge walls with full 2" air walls. 45 gallon capacity with 5 gallon spill pan
- Removable fork lift channels for convenient movement and placement of cabinet
- Complies with OSHA #29 CFR 1910, NFPA Code #30, and UFC Code #79
- Spill containment exceeds 5 gallon EPA requirement

Portable Pressure Blast Systems

Air Powered Portable Pressure Blast Systems

YA441 Pressure Blast System.

- For cleaning jobs on large surface areas
- Cleans a variety of materials such as concrete, stone, brick and steel
- Unit has a convenient remote control shut down at nozzle handle
- Wheels provide mobility on job site
- Hose length 25', with 1/4" nozzle
- Capacity: 250 lbs of abrasive
- Requires 80 CFM at 100 psi



YA441

YA448 Pressure Blaster System.

- For cleaning jobs where a minimal capacity of media is required
- Cleans a variety of materials such as concrete, stone, brick and steel
- Media is controlled by stainless steel ball valve at nozzle handle
- Capacity: 40 lbs of abrasive
- Requires 21 CFM at 100 psi
- Hose length 8' with 1/8" nozzle



YA448

YA449A Pressure Blast System (Not Shown).

- Cleans a variety of materials such as concrete, stone, brick and steel
- Media is controlled by stainless steel ball valve at nozzle handle
- Capacity: 100 lbs of abrasive
- Requires 21 CFM at 100 psi
- Hose length 10' with 1/8" nozzle

Gravity Fed Portable Pressure Blast Systems

YA432 Gravity Feed Siphon Sandblast System.

- Portable design is ideal for quick spot cleanups or larger jobs such as body and frame restorations
- Capacity: 40 lbs of abrasive
- Hose length 10' with 5/16" nozzle
- Requires 10 to 18 CFM at 100 psi



YA432



WARNING



- Do not direct air or fluid stream at body
- Use in well ventilated area
- Do not expose solvent to flames, spark or other sources of ignition
- Read safety precautions on pages W1 to W4

ABRASIVE BLAST SYSTEMS

Cabinet Type Abrasive Blast Systems

Snap-on® abrasive blast systems effectively clean metal parts right down to the bare substrate. The applications vary from automotive, manufacturing, restoration to tool and die shops, marine repair and electric motor rebuilders. Cabinet sizes vary from medium sized to larger pressure fed systems.



YA3825

Clamshell Blast Cabinet

- Features a clamshell lid to assist in loading heavy parts
- Side door for loading smaller parts
- Variable output blast gun with trigger style control
- High efficiency 135 CFM dust collection system
 - Provides user excellent visibility during blasting
 - Separates dust from useable media minimizing waste
 - Lower noise output
- Heavy duty steel grating in work area for heavier parts
- Dual fluorescent lights in work area for increased visibility
- Includes 25 lbs of glass bead abrasive

TECHNICAL SUPPORT
1-800-253-3661



YA3423



YA3626



YA4826P



YA3220

	YA3825	YA3423	YA3626*	YA4826P	YA3220*
Inside Dimensions, inches	16 to 24 H x 37 1/2 W x 26 D	11 to 21 H x 32 W x 21 1/4 D	23 H x 35 1/2 W x 23 1/2 D	14 to 23 H x 48 W x 24 D	8 to 16 H x 30 W x 20 D
Side Door Dimensions, inches	12 H x 17 1/2 W		12 H x 18 W	13 H x 19 W	
Top Opening Dimensions, inches	20 H x 37 1/2 W	16 H x 34 W	14 H x 37 W	24 H x 48 W	11 H x 28 W
Overall Dimensions, inches	70 H x 38 W x 26 D	65 H x 36 W x 24 D	58 H x 36 W x 24 D	60 H x 52 W x 25 D	28 H x 32 W x 20 D
Dust Collection Size in CFM	135	135	100	135	**
Air Supply Required	18 CFM @ 100 psi	18 CFM @ 100 psi	18 CFM @ 100 psi	45 CFM @ 100 psi	18 CFM @ 100 psi
Electrical Requirements	120 V AC, 60 Hz	120 V AC, 50/60 Hz	120 V AC, 50/60 Hz	120 V AC, 60 Hz	120 V AC, 60 Hz
European Models	YAH3825EUR	YAH3423EUR			

NOTE: European model is 230 V AC, 50/60 Hz, Single Phase.

**Optional dust collector YAD3976, also available YA3220-1 optional stand

*Blue-Point®

CE

Industrial Style Blast Cabinets

- Dust collection system provides user with excellent visibility and features polysateen bags to capture dust and debris
- Dual fluorescent lights in work area for increased visibility
- Heavy duty steel grating in work area to support heavier parts



YA4224

YA4224 Abrasive Blast Cabinet with Foot Control.

- Right hand door for smaller parts and top opening lid for larger parts
- Foot pedal control for media delivery reduces operator fatigue



YA435

YA435 Abrasive Blast Cabinet.

- Right hand door for smaller parts and full front opening door for larger parts
- Variable output blast gun with trigger style control



YA437

YA437 Large Abrasive Blast Cabinet with Foot Control.

- Features a turntable to assist in cleaning larger or multiple parts easily
- Right and left hand doors allow access to turntable
- Foot pedal control for media delivery reduces operator fatigue

TECHNICAL SUPPORT 1-800-253-3661

Stock No.	Inside Dimensions, inches	Dust Collector Size, CFM	Side Door Dimensions, inches	Top Opening Dimensions, inches	Overall Dimensions, inches	Air Supply Required	Electrical Requirements	European Models
YA4224	29 H x 41 W x 23 D	135	17 H x 18 W	12 H x 39 1/2 W	73 H x 43 W x 24 D	25 CFM @ 100 psi	120 V AC, 60 Hz	YAH4224EUR
YA435	15 to 23 H x 40 W x 26 D	270	13 H x 17 W	39 x 24	66 H x 40 W x 27 D	18 CFM @ 100 psi	120 V AC, 60 Hz	YAH435-EUR
YA437	33 H x 42 1/2 W x 44 D	405	35 H x 42 W		78 H x 44 W x 44 D	25 CFM @ 100 psi	120 V AC, 60 Hz	YAH437-EUR

NOTE: European model is 230 V AC, 50/60 Hz, single phase.
CE

Sandblasters

Vacuum Sandblaster

YA428A Vacuum Sandblaster.

- Blasts away rust, dirt and paint quickly
- Features a vacuum recovery system at the blast nozzle to eliminate mess
- Media is recycled for continuous use
- Dust is captured in container for ease of disposal
- Wheels and casters offer ease in mobility
- Vacuum recovery system's 90 CFM
- Measures 49" x 18" x 18 1/2"
- Requires 14 CFM at 100 psi and 120 V AC 60 Hz
- European model: YAH428AEUR CE 230 V AC 50/60 Hz



YA428A

Small Sandblasters

PSB500AR Portable Sandblasting Gun.

- For cleaning small areas quickly
- Lightweight aluminum construction
- Flat base provides an upright resting position
- Media capacity 4 lb
- Requires 5 to 12 CFM at 100 psi



PSB500AR

PSB100R Speed Blaster.

- For cleaning small areas quickly
- Overhead gravity fed media container
- Adjustable material flow valve
- Operating pressure is 60 to 125 psi
- Requires 12 CFM at 125 psi



PSB100R

PSB2020 Spot Blast Recovery System.

- Converts PSB100 Series speed blasters into spot blasters with recovery systems



PSB2020



WARNING



- Use in well ventilated area
- Read safety precautions on pages W1 to W4

ABRASIVE BLAST SYSTEMS/VISES

Sandblasting Accessories



YAD100A



YAD10102A



YAD007A

Blast System Accessories

Stock No.	Nozzle	Air Jets	Blast Gun	Blast Gloves	Window Film Replacement	Replacement Filter
YA3626	YAD105	YAD104	YAD100A	YAD007A	YAD20061	YADV723A
YA4826P	YAD2304			YAD007A	YAD20061	YADV723A
YA3825	YAD105	YAD104	YAD100A	YAD007A	YAD20061	YAD714
YA4224	YAD10104A	YAD10105A	YAD10102A	YAD007A	YAD20061	YAD674
YA3423	YAD105	YAD104	YAD100A	YAD007A	YAD20061	YAD714
YA435	YAD115	YAD104	YAD100A	YAD007A	YAD20061	YAD019
YA437	YAD10104A	YAD10105A	YAD10102A	YAD007A	YAD20061	YAD018
YA3220	YAD105	YAD104	YAD100A	YAD007A	YAD20061	N/A



YAD4003



YA414

Abrasives

YAD4000 Steel Grit Abrasive. For rough cleaning and removing rust and scale. 50 lb bucket.

YAD4003 Steel Shot Abrasive. For peening and cleaning castings and forgings. 50 lb bucket.

YA428-1 C-Garnet Abrasive. Does not break down as quickly as silica sand. Creates less dust. 50 lb bucket.

YA461A Glass Bead Abrasive (Coarse). For coarse satin finish with minimum surface removal. 40 to 60 coarse grit, 50 lb bucket.

YA462A Glass Bead Abrasive (Medium). For medium satin finish with minimum surface removal. 60 to 100 medium grit, 50 lb bucket.

YA463A Glass Bead Abrasive (Fine). Use for fine satin finish with minimum surface removal. 100 to 200 fine grit, 50 lb bucket.

YA466A Aluminum Oxide Abrasive. A tough abrasive used for fast removal of heavy oxidation and burrs. Low dust formula. 50 lb bucket.

Vises



BLPMV5

Bench Vises (Blue-Point®)

- Single piece steel blocks for higher load capacity
- Extended anvil
- Lubrication points for maintenance
- Optional swivel base
- Capacity range from 3.5 to 9 ton at maximum opening
- Reinforced cantilever support
- Interchangeable jaws
- Diamond ground for better grip
- Heavy duty cast iron construction
- Precise jaw alignment
- Rolled thread spindle for easy locating and tightening parts
- Protected spindle

BLPMV4 Bench Vise. 4" jaws.

BLPMV5 Bench Vise. 5" jaws.

BLPMV6 Bench Vise. 6" jaws.



WV1560VIS

High Visibility Safety Vises

- Coated in high visibility yellow, which conforms to the OSHA safety color standard for physical hazards regulation #1910.144
- Powder coat finish resists scratches and gives a tough, durable finish
- Handles and lockdowns are black oxide coated for additional corrosion resistance
- Units feature a straight line design with totally enclosed spindle and nut, replacement pipe and serrated vise jaws
- 360° swivel base

Stock No.	Jaw Width, inches	Maximum Opening, inches	Pipe Capacity, inches
WV1550VIS	5	5 1/4	1/4 - 2 1/2
WV1560VIS	6	5 3/4	1/4 - 3 1/2



WV4044

Mechanic's Vises

- For general purpose service and maintenance shops
- Replaceable, reversible top jaws (one serrated steel, one smooth), built-in pipe jaws, swivel base and large anvil

Stock No.	Jaw Width, inches	Maximum Opening, inches	Pipe Capacity, inches	Throat Depth, inches	Copper Jaw Cap
WV1745	4 1/2	4	3 1/4	3	WV4044
WV1755	5 1/2	5	3/8 - 3	3 3/4	WV4045
WV1765	6 1/2	6 1/2	3/8 - 3 1/2	4	WV4046
WV1780A	8	7	1/8 - 3 1/2	4 3/4	WV4046



WV400N

Machinist's Vises

- Choice of swivel or nonswivel base
- Large anvil, totally enclosed spindle and nut
- 60,000 psi high ductile iron for main stress parts
- Swivel models feature slip proof 360° base, serrated teeth and double lockdowns

Stock No.	Jaw Width, inches	Maximum Opening, inches	Throat Depth, inches	Base
WV300N	3	4 3/4	2 5/8	Stationary
WV400N	4	6 1/2	3 1/2	Stationary
WV450N	4 1/2	7 1/2	4	Stationary
WV500N	5	8	4 1/4	Stationary
WV600N	6	10	5 1/2	Stationary
WV800N	8	12	5 13/16	Stationary
WV300S	3	4 3/4	2 5/8	Swivel
WV350S	3 1/2	5 1/4	2 3/4	Swivel
WV400S	4	6 1/2	3 1/2	Swivel
WV450S	4 1/2	7 1/2	4	Swivel
WV500S	5	8	4 1/4	Swivel
WV600S	6	10	5 1/2	Swivel
WV800S	8	12	5 13/16	Swivel



WV676

Utility Vises

- Regular duty utility vises can be used for a variety of shop applications
- Replaceable serrated jaws, built-in pipe jaws, swivel base and large anvil to handle a variety of jobs

Stock No.	Jaw Width, inches	Maximum Opening, inches	Pipe Capacity, inches	Throat Depth, inches
WV674*	4 1/2	3 3/4	1/8 - 2	2 5/8
WV675	5 1/2	4 3/4	1/8 - 2	3 7/16
WV676	6 1/2	5 3/4	1/8 - 2 1/2	3 11/16
WV656	6	6	1/8 - 3	4 1/4
WV648*	8	7 1/2	1/8 - 3	4 1/2

*Features built-in pipe jaws, replaceable steel vise jaw inserts, a locking swivel base and rugged 30,000 psi body casting.

Pipe and Bench Vises (Blue-Point®)

- Large anvil, totally enclosed spindle and nut
- 60,000 psi high ductile iron for main stress parts
- Replaceable steel vise jaw inserts and milled steel pipe jaws
- Alloy steel slide bar

Stock No.	Jaw Width, inches	Maximum Opening, inches	Pipe Capacity, inches	Throat Depth, inches
WVC0	3 1/2	4	1/8 - 2 1/2	4 1/2
WVC2	5	7	1/8 - 4 1/2	5 5/16
WVC3	6	9	3/8 - 6	6 5/8



WVE105RT

Forged Bench Vises (Blue-Point)

- Hardened reversible jaws can be reversed for nonmarring applications or replaced when worn
- Competitive forged units do not offer replaceable jaws
- 360° swivel base increases versatility because vise can be locked in virtually any position
- Jaw adjustment screws ensure proper alignment and accuracy

Stock No.	Jaw Width, inches	Maximum Opening, inches	Pipe Capacity, inches
WVE104RT	4	3 15/16	1/4 - 3/4
WVE105RT	5	5 7/8	1/2 - 2 1/2
WVE106RT	6	7 7/8	1/2 - 3
WVE107RT	7	8 7/8	3/4 - 4



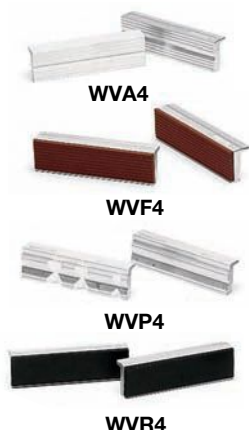
WARNING



• Read safety precautions on pages W1 to W4

VICES/WORKBENCHES

Jaw Caps



Stock No.	Description	Size, inches
WVA Series. Aluminum grooved caps hold uneven and circular pieces.		
WVA4	Aluminum Alloy Face	4
WVA5	Aluminum Alloy Face	5
WVA6	Aluminum Alloy Face	6
WVF Series. Caps with heat resistant, laminated fibers help prevent outside materials from being absorbed.		
WVF4	Fiber Face	4
WVF5	Fiber Face	5
WVF6	Fiber Face	6
WVP Series. Prism caps have horizontal and vertical grooves for marking out, center punching, light tapping, and thread cutting.		
WVP4	Prism Face	4
WVP5	Prism Face	5
WVP6	Prism Face	6
WVR Series. Caps have rubber covers.		
WVR4	Rubber Face	4
WVR5	Rubber Face	5
WVR6	Rubber Face	6

C-Clamps



Medium Duty C-Clamps

- Maximum strength ribbed iron frame
- Steel screw with full standard threads and sliding T-handle
- Large anvil and steel swivel pad to ensure secure clamping
- Deep throat style

Stock No.	Throat Depth, inches	Capacity, inches	Spindle Diameter, inches
CL537A	4 3/4	2 1/2	5/16
CL546A	6 1/4	2 1/2	3/8

Work Benches



Work Benches and Tables

EQG2223K5 Open Leg Work Bench.

- Heavy 12 gauge steel with die formed legs welded into a 1 pc unit for superior strength
- Includes storage drawer for mounting on an end or at the center of the bench
- 5' W x 29" D x 33 1/2" H

BPWORKBENCH Heavy Duty Workbench (Blue-Point®).

- Full bottom shelf and superior powder coat finish
- Net weight: 139 lbs
- Weight capacity: 1,200 lbs
- Top panel: 13 gauge steel
- Bottom shelf: 13 gauge steel
- Steel support: 12 gauge steel
- 60 1/16" W x 30 3/4" D x 34 1/16" H

EQG245U5 Pedestal Work Bench.

- Manufactured with a heavy 12 gauge top surface and an integral back flange
- 4 drawer pedestal is designed with roller drawer rails for smooth, nonbinding operation
- 5' W x 27 1/2" D x 34 1/8" H

Hydraulic Floor and Bench Presses

Hydraulic (50, 35, 20, 10, and 4 ton) presses will handle many pressing, straightening and assembling jobs. Rams may be moved in any lateral position. Two work blocks, included with each unit, are held in place by extended bosses at the bottom. Work rails can be raised or lowered in 7" increments on 50 ton unit, 5" increments on 35 ton unit, 3" increments on 20 ton unit, and 4" increments on the 10 ton bench models.



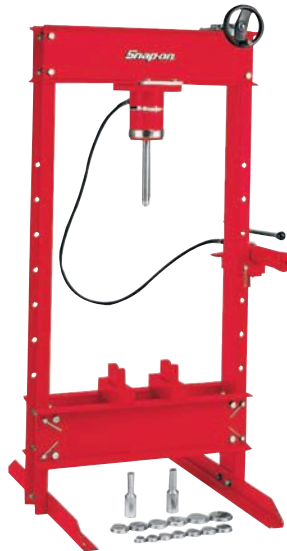
CG570BHY

50 Ton Floor Presses

CG570BHY 50 Ton Floor Press.

Includes: table lifting mechanism, frame, ram, pump and work blocks.

CG570BHY2S. CG570BHY with the 2 stage pump.



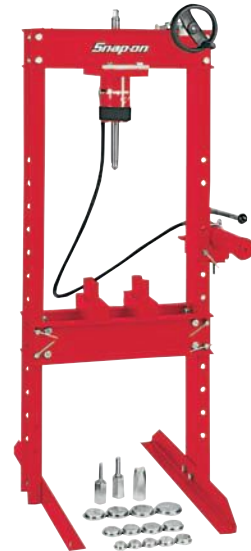
CG770HY

35 Ton Floor Presses

CG770HY 35 Ton Floor Press.

Includes: table lifting mechanism, frame, ram, pump and work blocks.

CG770HY2S. CG770HY with the 2 stage pump.



CG473HY

20 Ton Floor Presses

CG473HY 20 Ton Floor Press.

Includes: table lifting mechanism, frame, ram, pump and work blocks.

CG473HY2S. CG473HY with the 2 stage pump.

CG470BHY. CG473HY without the table lifting mechanism.

CG470BHY2S. CG470BHY with the 2 stage pump.



CG170HY

10 Ton Bench Press

CG170HY 10 Ton Bench Press.

Includes: frame, ram, pump and work blocks.



CG105HY

4 Ton Bench Press

CG105HY 4 Ton Bench Press.

Includes: frame, ram and pump.



WARNING



- Shield or screen press applications
- Read safety precautions on pages W1 to W4

Hydraulic Floor and Bench Presses

Stock No.	Overall Height, inches	Base Area, feet	Work Area Width, inches	Channel Width, inches			Working Dist., inches		V Block	Pressure Screw V Adaptor	Step Plate Set	Table Lifting Mechanism	Bull Nose Adaptor	
				Side Beam	Head Rail	Work Rail	(min.)	(max.)					Stock No.	Size, inches
50 ton														
CG570BHY	72	3 x 3 1/2	36	8	10	10	3 3/4	39 1/4	CG471-2 (2)		CG471A	Included	CG550-13	1
CG570BHY2S													CG550-14	1 1/2
35 ton														
CG770HY	69	2 1/2 x 3	28	5	10	10	2 1/4	40 7/8	CG471-2 (2)		CG471A	Included	CG770-1	7/8
CG770HY2S													CG770-2	1 1/8
20 ton														
CG473HY	60	2 x 3	20 1/2	5	5	5	4	39 3/4	CG471-2 (2)	CG471-1 (2)	CG471A	Included	CG471-3	1/2
CG473HY2S													CG471-4	3/4
CG470BHY	60	2 x 3	20 1/2	5	5	5	4	39 3/4	CG471-2 (2)	CG471-1 (2)	CG471A	CG472	CG471-3	1/2
CG470BHY2S													CG471-4	3/4
10 ton														
CG170HY	32 1/2	1 x 2	18	3	4	4	3 1/4	19 1/4	CG170-14 (2)	CG170-15	CG173		CG170-16	3/8
													CG170-17	3/4
4 ton														
CG105HY	18	11 x 6	9	2	2	2	4	12		CG105-7				

Step Plates

Use step plates for the pressing of bearings, bushings and general pressing applications.

CG173 Step Plate Set.

5 pc includes (components described in table at right):

CG173-1 CG173-4

CG173-2 CG173-5

CG173-3

CG471A Step Plate Set.

13 pc includes (components described in table at right):

CG471-5 CG471-9 CG471-12 CG471-15

CG471-6 CG471-10 CG471-13 CG471-16

CG471-7 CG471-11 CG471-14 CG471-17

CG471-8



CG471-9

Step Plates

Stock No.	Diameter, inches	Stock No.	Diameter, inches
CG173-1	5/8 and 1	CG471-9	1 3/4 and 2 3/16
CG173-2	3/4 and 1 1/8	CG471-10	1 7/8 and 2 5/16
CG173-3	7/8 and 1 1/4	CG471-11	2 and 2 7/16
CG173-4	1 and 1 3/8	CG471-12	2 1/8 and 2 5/8
CG173-5	1 1/8 and 1 1/2	CG471-13	2 1/4 and 2 3/4
CG471-5	1 1/4 and 1 5/8	CG471-14	2 3/8 and 2 7/8
CG471-6	1 3/8 and 1 3/4	CG471-15	2 1/2 and 3
CG471-7	1 1/2 and 1 7/8	CG471-16	2 3/4 and 3 1/4
CG471-8	1 5/8 and 2 1/16	CG471-17	3 and 3 1/2

Arbor Presses



CG100

3 Ton Arbor Press

CG100. Frame is 2" steel channel. Bolts to work bench. Gearing multiplies handle pressing up to 3 ton force. Set includes arbor press frame, CG100-14 utility punch, CG100-15 work block, and CG100-16 adaptor to convert 1/2" drive to 5/16" round drive.

Specifications	Diameter, inches
Dimensions	18 high, 11 1/8" wide
Pressure, tons	3
Base Size	11 1/8 x 6 1/8"
Vertical Capacity	12 3/4"
Opening Width	9"
Width Between Work Brackets	9"
Pressure Shaft Stroke	9" (when utility punch is attached)

Optional Accessories for CG100: The adaptors from A57Q bushing driver set can be used with CG100-16 5/16" round drive adaptor. The CJ951 bearing separator fits neatly between the work support brackets.



BRA5DV30VP



BRAC560V



BRA5140H



BRA517V



BRA7180V



BRA8180V



BRARS8180H



BRA9G3B



BRA10312H



BRA15312H

Snap-on® Signature Series Air Compressors

Stock No.	HP	Pump Stages	Tank Gallons	Tank Style	Electrical Requirement	Amp Service Requirement	Mag Starter	Hour Meter	Auto Drain	Air Delivery SCFM@psi	Max psi
BRA5DV30VP	5	Single	30	Portable	120 or 220 V, 1 phase	30 @ 120 V 15 @ 220 V	Not Req.	No	No	7 @ 125	125
BRAC560V	5	Single	60	Vertical	208/230 V, 1 phase	20 @ 208/230 V	Not Req.	No	No	13.5 @ 140	140
BRA5140H	5	Dual	40	Horizontal	208/230 V, 1 phase	30 @ 208/230 V	Not Req.	No	No	14.0 @ 175	175
BRA517V	5	Dual	70	Vertical	208/230 V, 1 phase	40 @ 208/230 V	Yes	No	No	17.5 @ 175	175
BRA7180V	7	Dual	80	Vertical (2)	208/230 V, 1 phase (1)	40 @ 208/230 V	Yes	Yes	Yes	23.5 @ 175	175
BRA7180VEM*	7	Dual	80	Vertical	208/230 V, 1 phase	40 @ 208/230 V	Yes	No	No	23.5 @ 175	175
BRA8180V	8	Dual	80	Vertical (2)	208/230 V, 1 phase (1)	40 @ 208/230 V	Yes	Yes	Yes	27.0 @ 175	175
BRARS8180H	8	Rotary Screw	80	Horizontal	208/230 V, 1 phase (1)	40 @ 208/230 V	Yes	Yes	Yes	35.0 @ 125	125
BRA9G3B	9	Dual	30	Horizontal	Gas Engine, Electric Start			No	No	23.0 @ 175	175
BRA10312H	10	Dual	120	Horizontal	208/230 V, 3 phase (3)	40 @ 208/230 V	Yes	No	Yes	36.0 @ 175	175
BRA15312H	15	Dual	120	Horizontal	208/230 V, 3 phase (3)	75 @ 208/230 V	Yes	No	Yes	48.0 @ 175	175
BRA20312H*	20	Dual	120	Horizontal	208/230 V, 3 phase (3)	100 @ 208/230 V	Yes	No	Yes	75.0 @ 175	175

(1) 3 phase motor available
 (2) Horizontal tank available
 (3) 440/460 V wiring available

*Not pictured



WARNING



- Use pressure regulator, lubricator and moisture filter on air line
- Follow maintenance requirements
- Read safety precautions on pages W1 to W4

AIR COMPRESSORS

Air Processing Equipment

Quick Clamp® Regulators, Filters and Valves

- System utilizes modular design of filters, regulators, lubricators and accessories
- Allows installation and removal of the AHR services units and accessories without breaking a pipe connection
- Clamping device holds AHR product components in rigid combinations

AHR423 Automatic Drain Valve.

- When fluid reaches full level it activates the float and drains unwanted oil and water automatically
- Can be used in place of a manual drain on the following units: AHR424 and AHR430

AHR424 General Purpose Filter.

- Excellent water removal characteristics
- Standard depth type 40 mm filter element
- Particle removal per ISO 8573-1, Class 5 and Class 3
- Inlet/outlet port size is 1/2" NPT(f)

AHR426 General Purpose Pressure Regulator.

- Features full flow gauge ports and standard relieving regulators
- Low torque, nonrising pressure adjustment knob has integral locking device
- Balanced valve minimizes effect of variation in inlet pressure on the outlet pressure
- Inlet/outlet port size is 1/2" NPT(f)
- Gauge port is 1/4" NPT(f)

AHR428 Oil Filter Lubricator.

- Features a quick release bayonet bowl, a high visibility prismatic lens and a liquid level indicator
- Lubricates a single tool, cylinder or other air powered device
- Inlet/outlet port size is 1/2" NPT(f)

AHR430 General Purpose Filter/Regulator.

- Low torque, nonrising pressure adjustment knob has integral locking device
- Standard depth type 40 µm filter element
- Particle removal per ISO 8573-1, Class 5 and Class 3
- Inlet/outlet port size is 1/2" NPT(f)
- Gauge port is 1/4" NPT(f)

AHR438 Wall Mount Bracket.

- Made of heavy duty metal
- Can be used on the following units: AHR424, AHR426, AHR428 and AHR430



AHR423



AHR424



AHR426



AHR428



AHR430



AHR438

Filters/Regulators

Stock No.	Maximum Inlet Pressure, psi (bar)	Temperature Range, °F (°C)	Flow, scfm	Drain Connection Manual	Drain Connection Automatic
AHR424	250 (17.2)	175 (79)	150	7/16"-24 UNS (m)	1/8" NPT(f)
AHR426*	300 (20.7)	0-175 (-18-79)			
AHR428	250 (17.2)	175 (79)	3.5-100	7/16"-24 UNS	
AHR430	250 (17.2)	0-175 (-18-79)		7/16"-24 UNS	1/8" NPT(f)

*Blue-Point®

Regulators, Filters and Valves

Stock No.	Inlet/Outlet Port Size	Adjustable Pressure Range	Maximum Service Pressure	Oil Capacity	Operating Temperature Range
AHRB200	1/2" NPT (f)	5-120 PSIG (.5-8.5 kgf/cm ²)	140 PSIG (9.7 bar)	80 ml	41-140 °F (5-60 °C)



AHRB200

Protecting All of Your Assets.

Snap-on has what it takes to keep your shop clean and safe.

Cleaning equipment — A clean garage is a safe, efficient garage. Snap-on has the answer for dirt, grease and grime. Keeping you and the shop in top form.

Safety equipment — From basic safety glasses and ear protection to face protectors on the cutting edge of design, Snap-on helps you do your job safely and comfortably.

Parts washers — Whether your shop needs solvent based or aqueous units, Snap-on carries a full line to meet your cleaning demands.

Increase Shop Profits.

Why pay a service fee to have used solvent carried away? A Snap-on® parts washer is an investment in your shop and the environment.



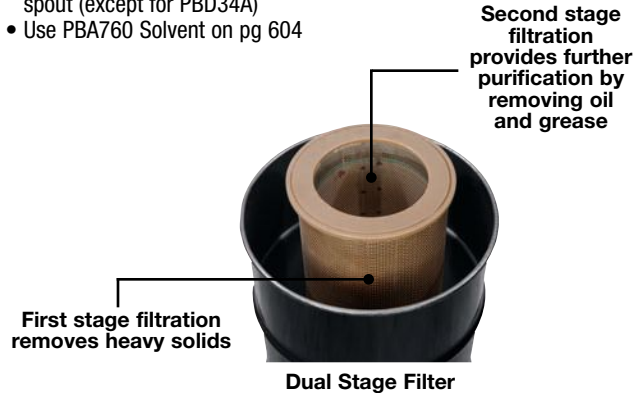
PARTS WASHERS

Solvent Based

Snap-on® dual filter parts washers provide a clean supply of solvent for washing parts. Filtration system virtually eliminates solvent changes.

Dual Filter Washer

- Composite dual stage filter provides continuous filtration of solvent
- Tubs are constructed of 16 gauge steel and feature an added lip for strength
- Complete with work lamp and flexible spout (except for PBD34A)
- Use PBA760 Solvent on pg 604



PBD3222A



PBC4828



PBD34A



PBD2622A



PBC3222A



PBC16

Specifications	PBD3222A	PBC4828	PBD34A*	PBD2622A	PBC3222A	PBC16
Filtration	Dual	Dual		Dual	Dual	
Base	Drum	Square	Drum	Drum	Square	
Interior Dimensions, inches	10 H x 32 W x 22 D	14 H x 48 W x 28 D	7 H x 28 W x 22 D	7 H x 26 W x 17 D	10 H x 32 W x 22 D	6 H x 15 W x 16 D
Fluid Requirements, gallons	20	20	10	10	20	5
Input Power Requirements	120 V AC, 60 Hz	120 V AC, 60 Hz	120 V AC, 60 Hz	120 V AC, 60 Hz	120 V AC, 60 Hz	120 V AC, 60 Hz
Pump Volume, gallons/hour	325	325	210	210	325	210
Output Pressure, psi	50	50	50	50	50	50
Overall Dimensions, inches	39 H X 36 W X 26 D	45 H X 52 W X 32 D	35 H X 31 W X 23 D	34 H X 30 W X 21 D	39 H X 36 W X 26 D	10 H x 17 W x 23 D
Open Height, inches	63	75	60	53	63	23
Replacement Filter	PBD3209	PBD3209		PBD3202	PBD3209	
European Models	PBDH3222AEUR	PBCH4828EUR		PBDH2622AEUR	PBCH3222AEUR	
PBD1751 Parts Tray	Included	Included	Optional		Included	
PBA720A Drain Table	Optional	Optional	Optional		Optional	

*Blue-Point® European Model - (230 V AC, 50 Hz)

CE

TECHNICAL SUPPORT
1-800-253-3661



PBC42A

Electric/Medium Duty

PBC42A High Pressure Parts Washer.

- Fully enclosed aqueous parts washer
- Blast parts clean with a high pressure wand
- Soap solution is heated for additional effectiveness
- Automatic soak cycle loosens up grime
- Screen and contaminant trap to separate oil and grease from soap solution
- Includes 25 lbs of YADW896B powdered soap

Specifications	PBC42A
Power Source	Electric
Depth, inches	24
Reservoir Capacity, gal	12
Electrical Requirements	230 V AC, 60 Hz
Pump Motor, hp	3/4
Output Pressure, psi	500
Volume, gal/h	180
Heater, watts	1,500
Open Height, inches	67
Inside Dimensions, inches	16 to 26 H x 40 W x 24 D
Overall Dimensions, inches	62 H x 46 W x 27 D

European Model - PBCH42A-EUR (230 V AC, 50 Hz)
 € €



PBC33A

PBC33A Standard Heated Aqueous Parts Washer.

- Clean parts with a pressurized cleaning spout
- Heated for additional effectiveness
- Polysateen drain filter to remove solids
- Heavy wall polyethylene tub and solid base
- Integral oil skimmer removes oil and grease from the cleaning solution
- Includes 5 gallons of PBA733 cleaning solution

Specifications	PBC33A
Power Source	Electric
Depth, inches	28
Reservoir Capacity, gal	20
Electrical Requirements	120 V AC, 60 Hz
Output Pressure, psi	50
Volume, gal/h	325
Heater, watts	1,500
Open Height, inches	65
Inside Dimensions, inches	10 H x 21 W x 31 1/2 D
Overall Dimensions, inches	42 H x 37 W x 28 D

European Model - PBCH33AEUR (230 V AC, 50/60 Hz)
 € €

Electric/Heavy Duty

PBC57A High Pressure Automatic Parts Washer.

- Automatically cleans engine blocks, cylinder heads, transmission cases and small parts
- Heated and pressurized soap solution
- 18 high pressure nozzles
- Turntable rotates and pulls out for ease of part loading
- Integral oil skimmer removes oil and grease from the soap solution
- Includes 25 lbs of YADW896B powdered soap

European Model - PBCH57AEUR (230 V AC, 50 Hz)
 € €



PBC57A

PBC55-1 Parts Basket.

- Perforated steel basket for holding small parts

PBC55-3 Parts Tree.

- Welded steel tube rack for hanging smaller parts



PBC55-1



PBC55-3



WARNING



- Do not direct air or fluid stream at body
- Do not expose solvent to flames, sparks or other sources of ignition
- Use in well-ventilated area
- Do not use washer without fusible link or safety valve intact
- Read safety precautions on pages W1 to W4

PARTS WASHERS

Parts Washer Accessories



YA452



GA501A



PBA733

Parts Cleaning Brushes/Solvent & Aqueous Based (Blue-Point®)

YA452 Parts Cleaning Brush.

- Stiff bristles with contoured, nonslip plastic handle
- Attaches to most parts washers
- Flared hose end fits 1/4" spouts: 24" long hose has internal spring to prevent kinking
- 35 1/4" overall length

GA501A Parts Cleaning Brush.

- Similar to YA452 without hose: 11 1/4" long

YADW896B Powdered Soap Cleaner.

- Low foaming powdered soap solution
- For use in PBC57, PBC57A, PBC42 and PBC42A parts washers
- Comes in a 25 lb container - makes 60 to 120 gal solution

Aqueous Based Cleaning Solution and Powder

PBA733 Certified Green Concentrate Solution.

- Specially formulated solution does not absorb oil and dirt
- For use in PBC33, and PBC33A parts washers
- Comes in a 5 gal container - makes 20 gallons of solution



PBA760



PBA725



PBD1751



PBA720A

Petroleum Based Solvent Cleaners

PBA760 Solvent Cleaner.

- Excellent for removing oil and grease
- Petroleum based cleaner with 140 flash point
- For solvent based parts washers only
- Comes in a 5 gallon container

Solvent Based Parts Washer Accessories

PBA725 Parts Basket.

- Hangs inside solvent based parts washers

PBD1751 Parts Tray.

- Attaches to outside of parts washer
- Measures 12 1/2" W x 18 1/2" D

PBA720A Drain Table.

- Attaches to outside of parts washer
- Measures 25-1/2" W x 18-1/2" D

Parts Cleaning



YA730D



YA729B



YA571



YA297



NOZZLE360A



GA299

Hose Reels

YA730D Heavy Duty Air/Water Hose Reel.

- 50' of 3/8" ID low pressure rubber hose
- Adjustable ball stop
- 24" connecting hose
- High carbon steel retraction spring
- Wide arm adjusts to 4 positions

YA729B Hose Reel.

- 30' of 3/8" ID low pressure rubber hose
- Adjustable ball stop
- 12" connecting hose
- Metal construction
- Max. pressure 300 psi
- Max. water temperature 200 °F

Water Nozzles and Hoses

YA571 Water Spray Nozzle.

- Sprays hot or cold water
- Clip locks spray at desired setting
- Nose bumper prevents scratches to auto paint
- Fits standard garden hose threads

YA297 Water Saving Hose Nozzle (Blue-Point).

- Provides concentrated pressure stream
- Features special rocker actuated check valve
- Fits standard garden hose threads
- 9" long

NOZZLE360A Water Spray Nozzle (Blue-Point).

- Turns any standard 5/8" hose into a multi function cleaning tool
- 5 different spray patterns
- 360° jetted nozzle is engineered from rugged extruded aluminum, forged stainless steel, high grade fiberglass and comfort grip santoprene
- 2 way shut off

GA299 Air Solvent Gun.

- Used for degreasing or applying oils
- Quickly converts to long wanded air gun
- Includes 8' hose for siphoning chemicals into gun
- Operates on 35 to 175 psi

PRESSURE WASHERS

Cold Water

Includes ceramic plunger pump with stainless steel valves, trigger gun, chemical injection and adjustable pressure.



Electric Powered

Adjustable 0 to 60° spray nozzle and GFCI protection with 35' power cord.

Specifications	SEPW1500P	SEPW1500USA	SEPW1000	SEPW1500SM
Style	Hand Carry	Cart Mounted	Cart Mounted	Wall Mounted
PSI (bar)	1,450 (100)	1500	1,000 (69)	1,450 (100)
GPM (lpm)	2 (7.6)	2	2 (7.6)	2 (7.6)
HP	2	2	1.5	2
Voltage	120 V/20 A/1 ph	120 V/17 A	120 V/15 A/1 ph	120 V/20 A/1 ph
Chemical Tank Cap.	—	—	1 gal	—
Pump Max. Temp.	140 °F	140 °F	140 °F	180 °F
Thermal	Mechanical	Mechanical	Mechanical	Mechanical
Hose Length (feet)	26	25	50	40
Dimensions (L x W x H)	18" x 12" x 11"	30" x 21 1/2" x 36"	21" x 16" x 36"	20" x 12" x 20"
Shipping Wt., lbs	68	150	65	98

Gas Engine

Interchangeable or adjustable 0 to 40° spray nozzle plus powder coated tube frame cart with pneumatic tires.

Specifications	SEPW1600G	SEPW2700G
Style	Cart Mounted	Cart Mounted
PSI (bar)	1,600 (110.4)	2,700 (183.3)
GPM (lpm)	3 (11.4)	3 (11.4)
HP	5	6.5
Engine	Honda GC	Honda GC
Fuel Tank Cap.	1.9 qts	3.9 qts
Chemical Tank Cap.	3 gal	3 gal
Thermal	165 °F	165 °F
Hose Length (feet)	50	50
Dimensions (L x W x H)	30" x 21 1/2" x 36"	30" x 21 1/2" x 36"
Shipping Wt., lbs	87	108

Oil Fired Hot Water

Heats water to 200 °F. Includes ceramic plunger pump with stainless steel valves, trigger gun, interchangeable nozzles, chemical injection, adjustable pressure, stainless steel cold wrap around coil, poly fuel tanks and GFCI protection. Powder coated tube frame cart with pneumatic tires for extra durability.



Electric Power

Specifications	SEPW14SHDE	SEPW15SHDE	SEPW20SHDE	SEPW30SHDE
PSI (bar)	1,450 (100)	1,500 (103.5)	2,000 (138)	3,000 (207)
GPM (lpm)	2 (7.6)	3 (11.4)	4 (15.2)	4 (15.2)
HP	2	3	5	7.5
Voltage	120 V/20 A/1 ph	230 V/20 A/1 ph	230 V/25 A/1 ph	230 V/34 A/1 ph
Burner Fuel Capacity	5 gal	5 gal	5 gal	5 gal
Dimensions (L x W x H)	34" x 27" x 47"	34" x 27" x 47"	34" x 27" x 47"	34" x 27" x 47"
Shipping Wt., lbs	350	350	570	600

Gas Engine

Specifications	SEPW3000QH
PSI (bar)	3,000 (207)
GPM (lpm)	4 (15.2)
HP	13
Engine	Honda
Fuel Tank Capacity	6.9 qt
Burner Fuel Capacity	5 gal
Dimensions (L x W x H)	54" x 32" x 49"
Shipping Wt., lbs	600



WARNING



- Do not direct air or fluid stream at body
- Read safety precautions on pages W1 to W4

VACUUMS/SHOP FANS

Wet/Dry Vacuums

Industrial strength full wet and dry cleaning/drying machines combine the highest degree of suction/airflow with ruggedly durable motors. Highest quality materials ensure long life. Ball bearing motor designed for strong performance with less motor strain. Engineered for easy portability and long life.



Specifications	YA1023	YA1105	YA1009SS	BLPVAC5*
Tank	23 Gal Poly	Corrosion Resistant	Corrosion Resistant	5 Gal Polypro
Casters	Large Rear/Swivel Front	4 Swivel	Large Rear/Swivel Front	4 Metal Casters
Waterlift	91"	84"	84"	65"
Motor	2 Stage	2 Stage	2 Stage	1 Stage
CFM	142	78	78	117
Approval	UL® and CUL	UL and CUL	UL and CUL	UL and CUL
Operation	Full Wet and Dry	Full Wet and Dry	Full Wet and Dry	Full Wet and Dry
Filter Assembly	YAT90448	YAT24519	YAT90445	- (Washable Cartridge Filter)
Includes	1.5" Wet/Dry Tool Set (hose w/swivel end, crevice tool, upholstery tool, (2) straight extensions, floor tool housing with carpet face, brush face, squeegee face)	1.5" Wet/Dry Tool Set (hose w/swivel end, crevice tool, upholstery tool, (2) straight extensions, floor tool housing with carpet face, brush face, squeegee face)	1.5" Wet/Dry Tool Set (hose w/swivel end, crevice tool, upholstery tool, (2) straight extensions, floor tool housing with carpet face, brush face, squeegee face)	7 hose (1 1/4" dia.), (3) extension wands, washable cartridge filter, reusable foam sleeve, 10" floor/squeegee nozzle, utility nozzle with brush and crevice tool

*Blue-Point®



AV1000A

Handheld Vacuums

AV1000A Deluxe Air Vacuum Kit (Blue-Point).

- Ideal for vehicle media body shops or any applications in need of picking up dust, metal shavings or broken glass
- Includes 8.7" aluminum extension tube, pointed nozzle, flexible tube and crevice tool with brush
- Large collection bag includes a debris baffle and sliding bag clamp for emptying debris
- Lightweight ergonomic handle design

Specifications	AV1000A
Air Consumption, Average, DFM (SCFM) [l/min]	3 (21) [84.95]
Sound Level, Free Speed, dBa	81.2
Sound Level, Working, dBa	81.2
Recommended Hose Size, inches	3/8
Length (without bag), inches (mm)	13 (330)
Brush Head Size, inches (mm)	1 1/8 x 2 5/8 (28.5 x 66.7)
Bag Size, inches (mm)	6 1/2 x 11 1/4 (165 x 285)
Weight, lbs (kg)	0.88 (0.4)



YA1102

Portable Spotter

YA1102 Portable Spotter.

- Use on carpeting, seat fabrics and other cleaning needs
- Durable molded tank
- Large 2 gallon capacity
- Powerful 55 psi solution pump motor
- Strong recovery with 94 CFM vacuum rating
- Quick disconnect solution hose at body
- Includes hose and hand tool
- Use with CLEAN1A cleaner solution (32 oz) sold separately
- UL and CSA® listed
- ETL and ETL-c listed
- 84" waterlift
- Bypass 1.2 HP motor

Shop Fans

WIND100 Heavy Duty Air Mover.

- For heavy duty air circulation applications
- Use for drying carpets, upholstery or hard floors plus removing vapors from enclosed spaces
- Maximum 2,500 CFM output
- 3 position discharge adjustment
- 3 speed switch



WIND100

Specifications	WIND100
Power	120 V AC/60 Hz
Speeds	3
Air Delivery	1,600 - 2,000 - 2,500 CFM
Air Flow Direction	0°/30°/90°
High Output Fan Size	10 3/4 diameter x 10 1/2 W
Motor	.5 Hp
Motor Rating	Continuous Duty
Power Cord	15 (18/3)
Size, (LxWxD), inches	18 H x 14 W x 20 1/2 D

Back Supports

Stock No.	Size	Color
BACK1M	Medium 31 to 36" waist	Red
BACK1L	Large 35 to 40" waist	Red
BACK1XL	X-Large 39 to 44" waist	Red
BACK1XXL	XX-Large 43 to 48" waist	Red
BACK1SBK	Small 27 to 32" waist	Black
BACK1MBK	Medium 31 to 36" waist	Black
BACK1LBK	Large 35 to 40" waist	Black
BACK1XLBK	X-Large 39 to 44" waist	Black



BACK1LBK



BACK1XL

Back Supports

- Curved, firm support pads help reduce back fatigue
- Unique patented lumbar pad design to firmly support the lower back
- Not a replacement for proper workplace design and proper training in lifting, twisting and bending movements

Arm Protectors/Knee Pads



HS700A

HS700A Arm Protector.

- Protects arm from burns when working around engines
- Fits either right or left arm, protecting hand and forearm
- 2 layer heat resistant Kevlar® for extra protection
- Washable
- 15" (381 mm) overall length



KNEEPAD2

KNEEPAD2 Kneepads.

- Polypropylene cap protects against floor debris
- Outer cap is securely attached to padded nylon inner pad for maximum comfort
- Extra wide Velcro® straps for easy On/Off
- Lightweight



KNEEPAD3

KNEEPAD3 Gel Cushioned Kneepads.

- Wide neoprene rear lower flap reduces chafing
- Gel cushioned for maximum comfort
- Velcro straps for easy On/Off, secure fit and comfort
- Hinged pad extensions for a comfortable fit

Mitchell1® Service Programs

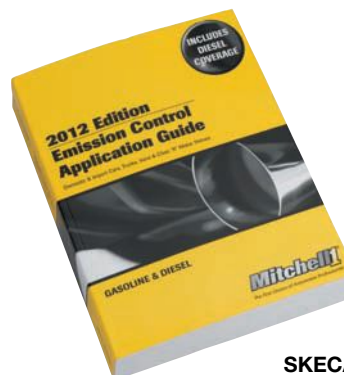
Mitchell1 Service Manuals

SKECAG12 Emission Control Application Guide Mitchell1 Manual.

Coverage:

- 1966 – 2012 U.S. Vehicles
- 1968 – 2012 Import Vehicles
- 1984 – 2012 Diesel Applications

- Diesel Applications
- Traction Control Disable Procedures
- Comprehensive Import Coverage
- Emission Control Systems and Devices
- Timing Specifications
- E R Function Testing
- EPA Emission Recalls
- Service Reminder Indicator Procedures



SKECAG12



WARNING



• Read safety precautions on pages W1 to W4

SHOP SUPPLIES

Lubrication



ULUBE1



AS4



AS8



AS16

Synthetic Lubricant

ULUBE1 Synthetic Lubricant.

- Easy to apply spray extends tool life
- Specially formulated for use with bearings and other rotating devices
- Case of (12) 5.5 oz cans

Antiseize Lubricant

- Premium general purpose copper/graphite blend antiseize compound
- Formulated to prevent seizing and galling at high temperatures (resistant to 1,800 °F)
- Lubricates and protects against corrosion
- Eases assembly and disassembly of metal parts while reducing friction and wear

AS4 Antiseize Lubricant. 4 oz bottle with applicator brush attached to cap.

AS8 Antiseize Lubricant. 8 oz bottle with applicator brush attached to cap.

AS16 Antiseize Lubricant. 16 oz bottle with applicator brush attached to cap.

Auto Care/Detailing



CLEAN1A

Cleaners, Polishes and Sealants

CLEAN1A Cleaning Solution.

- Fresh scent
- Multisurface cleaner for tires, aluminum and alloy wheels, carpets, seats and other interior fabrics
- Recommended for easy removal of UV dyes from air conditioning units
- Designed to work alone or with Snap-on® YA1102 dirt and stain extractor
- Case of (12) 32 oz spray bottles

Buffing Kits (Blue-Point®)

BUFF3KIT1 Foam Pad.

- 3" diameter wavy foam pads for fine polishing applications
- 5 pads in storage tube EU - B

BUFF3KIT2 Lambswool Pad.

- 3" diameter lambswool pads for ultra fine polishing applications
- 5 pads in storage tube EU - B

BUFF3KIT3 Twisted Wool Pad.

- 3" diameter twisted wool pads for aggressive buffing applications
- 5 pads in storage tube EU - B

BUFF3KIT4 Fibreral Wavy Pad.

- 3" diameter fibreral wavy pads for ultra coarse buffing applications
- 5 pads in storage tube EU - B

BUFF3KIT5 Shur-Grip Pad Holder (3" diameter).

- Use with buffing/polishing pads in the BUFF3KIT series
- 1/4" shaft
- 3" diameter
- EU - B



BUFF3KIT

BUFF3KIT Miniature Buffing Kit.

- Ideal for buffing and polishing autos, boats, motorcycles, aircraft and more
- Use on all painted surfaces, metal, chrome and wood
- Varied pad selection from ultra fine to very aggressive
- Wavy edge allows user to reach tight places
- Hook and loop retention system for quick, easy and secure pad/driver connection
- Includes (1) 1/4" shaft, 3" diameter Shur-rip pad holder and 1 each of the following: blue wavy foam pad (fine polishing), black lambswool pad (ultra fine polishing), twisted wool pad (aggressive buffing) and fibreral wavy pad (ultra coarse buffing)
- EU - B

Hand Cleaners



WOD303CSA



WOD503CSA

Medicated Hand Cleaners

- Quickly dissolves and removes stubborn dirt and stains while antiseptic properties protect the skin

WOD303CSA Medicated Hand Cleaner.

- Fresh orange scent
- Case of (4) 4 1/2 lb cans

WOD503CSA Medicated Hand Cleaner.

- Case of (4) 4 1/2 lb cans

Hand Cleaners

Pumice Hand Cleaners

- Extra strength pumice hand cleaner with antiseptic ingredient

WOD423CSA Pumice Hand Cleaner.

- Fresh orange scent
- Case of (4) 4 1/2 lb cans

WOD623CSA Pumice Hand Cleaner.

- Case of (4) 4 1/2 lb cans

WOD1050CSA Pumice Hand Cleaner.

- Fresh orange scent
- Case of (4) 1 gal bottles



WOD423CSA



WOD623CSA



WOD1050CSA



WOD507

WOD1027

WOD1027HT

WOD8307

Hand Cleaner Dispensers

WOD507 Heavy Duty Hand Cleaner Dispenser.

- Convenient for wall mounting
- 4 1/2 lb cans of hand cleaner

WOD1027 Pump Style Hand Cleaner Dispenser.

- Wall mounted, pump style dispenser for WOD2025ACSA or WOD2325ACSA hand cleaners in 84 oz bottles

WOD1027HT Pump Style Hand Cleaner Dispenser.

- Wall mounted, pump style dispenser for WOD2025ACSA or WOD2325ACSA hand cleaners in 84 oz bottles

WOD8207 Automatic Hand Cleaner Dispenser.

- Auto dispensing portion control, no waste, dripping or cross contamination
- Over 900 washes per refill bottle
- Auto dispenser eliminates grease and grime accumulating on dispenser
- (4) D-size batteries will last 30,000 cycles, over 30 refills, or over 18 months battery life
- Sleek ergonomic and attractive design, less than 4" wide, meeting the fire marshal code for hallways
- Uses WOD2115ACSA refill (case 4)

WOD8307 Manual Hand Cleaner Dispenser.

- Proprietary unit, refills only from your authorized Snap-on® franchisee (Refill: WOD2115ACSA)
- 2 ml dispenses with each activation and 750 hand washes per refill
- Sleek ergonomic and attractive design, less than 4" wide, meeting the fire marshal code for hallways
- Tamper resistant and keyless locking cover
- Dispense from bottom, eliminating unused hand cleaner in refill

Specialty Brushes (Blue-Point®)

AC5C Hand Scratch Brush. Stainless wire bristles for use where corrosive materials are found. 7 7/8" long.

AC58E Wire Brush. Curved scratch brush. Carbon steel bristles. 13 3/4" long.

AC59C Curved scratch brush. Stainless steel bristles. 13 3/4" long

AC64B Shoe Handle Scratch Brush. Carbon steel bristles. 10" x 1 1/16". 5" long.



WOD2025ACSA

WOD2325ACSA

WOD2018ACSA

WOD2115ACSA

Water Activated Hand Cleaners

- Soybean based, water activated and concentrated formula with fibril scrubbers
- Contains antiseptic ingredient and conditioners for maximum skin protection
- Redline hand cleaner offers the highest performance skin cleaning with fibril/pumice double scrubbing action

WOD2025ACSA Water Activated Hand Cleaner.

- Case of (4) 84 oz bottles
- Requires WOD1027 pump dispenser

WOD2325ACSA Redline Hand Cleaner.

- Case of (4) 84 oz bottles
- Requires WOD1027HT pump dispenser

WOD2018ACSA Water Activated Hand Cleaner.

- Portable size is perfect for a tool box, cart or at home
- Squeeze bottle with no drip nozzle
- Case of (12) 18 oz bottles

WOD2115ACSA Nitro-Gold Hand Cleaner.

- For use in WOD8207 auto dispenser or WOD8307 manual dispenser
- Case of 4

Hand and Shop Towels

WOD5020 Hand and Tool Cleaning Towels.

- Convenient hand towels for cleaning tools or hands of oil and grease
- Towels contain lanolin and rust preventatives



WOD5020

Fingernail/Hand Brush

WOD1000 Fingernail Brush.

- Use with any "WOD" series hand cleaner



WOD1000



AC5C



AC58E



AC64B



WARNING



- Do not ingest or use on face
- Read safety precautions on pages W1 to W4

SHOP SUPPLIES

Wire Brushes



Wire Brushes

- Ergonomic cushion grip handle designed for maximum comfort and control
- Use with both hands to maximize pressure
- Heavy 28 gauge stainless steel gives units maximum strength and durability
- Choice of brush width and length allows you to cover a wide range of applications

Applications:

Ideal for cleaning rusted threads, battery terminals and gaskets. Removes body rust prior to welding on various metal parts. Cleans off caulk and interpanel grinding welds

Stock No.	Description
WBBS2	2" miniature brass wire brush
WBSS2	2" miniature stainless steel wire brush
WBSS3	3" stainless steel wire brush
WBSS5	5" stainless steel wire brush
WBSS8	7 3/4" stainless steel wire brush
WBSS9	8 3/4" stainless steel wire brush
WBSS14	6 3/4" stainless steel wire brush
WBSS5CAL	5" stainless steel wire caliper brush
WBSET	Includes (2) WBBS2 miniature brass wire brushes and (1) WBSS2 miniature stainless steel wire brush
WBMSSET	Includes (1) WBBS2 miniature brass wire brush, (1) WBSS2 miniature stainless steel wire brush, (1) WBSS3 stainless steel wire brush, (2) WBSS8 stainless steel wire brush, (1) WBSS14 stainless steel wire brush and (2) WBSS14 stainless steel wire brush.
WBSSSET	Includes (1) WBBS2 miniature brass wire brush, (1) WBSS2 miniature stainless steel wire brush, (1) WBSS3 stainless steel wire brush, (1) WBSS8 stainless steel wire brush and (1) WBSS14 stainless steel wire brush.
WBSS2BKT	Includes (25) WBSS2 stainless steel wire brushes
WBBS2BKT	Includes (25) WBBS2 brass wire brushes

Wire Wheels



AC48ADAPT3/4



AC48ADAPT1



AC26E



AC48A

Crimped Heavy Duty (Non-tempered Wire)

Stock No.	Brush Diameter, inches	Width, inches	Arbor Hole, inches	Maximum Safe Free Speed, RPM
AC26E	6	29/32	5/8, 3/4, 1	6,000
AC28E	8	1 1/8	5/8, 3/4, 1	4,500



AC614B

Twisted Tuft

Tufts are 1 1/4" long and are twisted about 2/3 of the way.

Stock No.	Wheel Diameter, inches	Wheel Width, inches	Wire Size, inches	Arbor Hole, inches	Maximum Safe Free Speed, RPM
AC614B	6	1/2	.016	1/2, 5/8	9,000

Crimped Wire Wheels

- Crimped bristles help prevent bending or breaking and are anchored without welds or crimps in flanges

- .014" wire size

AC48ADAPT3/4

- Adapts the AC48A to a 3/4" shaft

AC48ADAPT1

- Adapts the AC48A to a 1" shaft

Crimped Industrial (Tempered, High Density Wire)

Stock No.	Brush Diameter, inches	Width, inches	Arbor Hole, inches	Maximum Safe Free Speed, RPM
AC48A	8	1	5/8	4,500



AC207A

Encapsulated

- Individual wire tips are encased in synthetic elastomer material (gradually wears away to expose only wire tips) for consistent stiff brushing action
- Ideal for auto body and surface applications

Stock No.	Wheel Diameter, inches	Wheel Width, inches	Wire Size, inches	Arbor Hole, inches	Maximum Safe Free Speed, RPM
AC207A	2	1/4	.014	3/8, 1/2	18,000
AC217A	3	1/4	.014	3/8, 1/2	18,000

Grinder Accessories (Blue-Point®)

WD12 Grinding Wheel Dresser.

- Removes glaze and trues up wheel
- New cutters can be easily inserted
- Hood protects cutter

WD13 Grinder Wheel Dresser.

- Helps true up grinding wheels
- Hardened and serrated steel disks
- 11" long, 1.5" diameter wheels



WD12

WD13

Grinder Discs and Accessories

Gloves

SuperCuff™ Gloves

- Patented *SuperCuff* design provides a super comfortable, snug and secure wrist closure design while not restricting wrist and hand movement
- Low profile TPR (Thermal Plastic Rubber) logo treatments
- Heavy Lycra® panels between fingers allows for greater comfort and fit
- Hidden interior stitching enhances glove life
- Gloves are machine washable. Air dry only

Technician's *SuperCuff* Gloves (Glove 500 Series)

- Dual fingertip layers for protection and control
- Single piece palm protects hands from nicks and bruises

Impact *SuperCuff* Gloves (Glove 501 Series)

- Dual fingertip layers for protection and control
- Thermal plastic rubber protection panels help eliminate cuts and scrapes
- Built in tool rest provides extra support with pneumatic tools
- Gel padding in palm reduces impact

Heavy Duty *SuperCuff* Gloves (Glove 502 Series)

- Dual fingertip layers for protection and control
- Thermal plastic rubber protection panels help eliminate cuts and scrapes
- Built-in tool rest provides extra support with pneumatic tools
- Gel padding in the palm reduces impact
- 5 mm EVA foam
- Accordion style knuckle protection

	Stock No.	Color	Size
Heavy Duty <i>SuperCuff</i> Gloves	GLOVE502BSA †	Black	Small
	GLOVE502BMA †	Black	Medium
	GLOVE502BLA †	Black	Large
	GLOVE502BXLA †	Black	XL
	GLOVE502BXXA †	Black	XXL
	GLOVE502RSA †	Red	Small
	GLOVE502RMA †	Red	Medium
	GLOVE502RLA †	Red	Large
	GLOVE502RXLA †	Red	XL
	GLOVE502RXXA †	Red	XXL



GLOVE502BXL



GLOVE502RL

† C E

SuperCuff Heavy Duty Carbon Knuckle

- Hard Carbon Knuckle helps protect from heavy impacts in knuckle and back of the hand area
- 2 layer palm with nonslip panels on thumb, index and middle fingers allows the user to perform the most extreme tasks without losing control
- Gel palm padding reduces vibrations without compromising dexterity

	Stock No.	Size
Heavy Duty Carbon Knuckle	GLOVE503RCS †	Small
	GLOVE503RCM †	Medium
	GLOVE503RCL †	Large
	GLOVE503RCXL †	XL
	GLOVE503RCXX †	XXL



GLOVE503RCL

† C E

SuperCuff Cold Weather

- MOSSY OAK® poly spandex fleece top lined with Bremberg® for additional insulation
- Lined genuine leather palm and index finger which offers incredible dexterity and durability along with added insulation from cold weather

	Stock No.	Size
Cold Weather	GLOVELMOSSM	Medium
	GLOVELMOSSL	Large
	GLOVELMOSSXL	XL
	GLOVELMOSSXX	XXL



GLOVELMOSS

	Stock No.	Color	Size
Technician's <i>SuperCuff</i> Gloves	GLOVE500BSA †	Black	Small
	GLOVE500BMA †	Black	Medium
	GLOVE500BLA †	Black	Large
	GLOVE500BXLA †	Black	XL
	GLOVE500BXXA †	Black	XXL
	GLOVE500RSA †	Red	Small
	GLOVE500RMA †	Red	Medium
	GLOVE500RLA †	Red	Large
	GLOVE500RXLA †	Red	XL
GLOVE500RXXA †	Red	XXL	
Impact <i>SuperCuff</i> Gloves	GLOVE501BSA †	Black	Small
	GLOVE501BMA †	Black	Medium
	GLOVE501BLA †	Black	Large
	GLOVE501BXLA †	Black	XL
	GLOVE501BXXA †	Black	XXL
	GLOVE501RSA †	Red	Small
	GLOVE501RMA †	Red	Medium
	GLOVE501RLA †	Red	Large
	GLOVE501RXLA †	Red	XL
GLOVE501RXXA †	Red	XXL	



GLOVE500BXL



GLOVE500RL



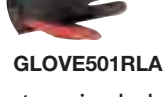
GLOVE501BXL



GLOVE501RL



GLOVE501BXL



GLOVE501RL

† C E



WARNING



- Do not use wire wheels above their maximum rated rpm
- Read safety precautions on pages W1 to W4

SAFETY EQUIPMENT

Gloves

High Visibility SuperCuff™ Gloves

- Provide additional hand protection plus HI-VIZ yellow color keep hands visible while performing all tasks at hand
- Patented *SuperCuff* design provides a comfortable, snug and secure wrist closure design while not restricting wrist and hand movement
- 2 layer palm with non slip fingertip panels on thumb, index and middle fingers allows the user to perform the most extreme tasks without losing control (Impact and Carbon Knuckle only)
- Tough synthetic leather palm
- Low profile TPR (Thermal Plastic Rubber) logo treatments
- Heavy Lycra panels between fingers allows for greater comfort and fit
- loves are machine washable. Air dry only



GLOVE501HLA



GLOVE503HCL



GLOVE500HLA

	Stock No.	Size
Technicians	GLOVE500HMA	Medium
	GLOVE500HLA	Large
	GLOVE500HXL	XL
	GLOVE500HXXA	XXL
Impact	GLOVE501HMA	Medium
	GLOVE501HLA	Large
	GLOVE501HXL	XL
	GLOVE501HXXA	XXL
Carbon Knuckle	GLOVE503HCM	Medium
	GLOVE503HCL	Large
	GLOVE503HXL	XL
	GLOVE503HCXX	XXL

CE

M-Pact® Impact Gloves (Glove 301 Series)

- Designed for extra protection
- Antivibration palm protection and reinforced fingers
- Molded TPR (Thermal Plastic Rubber) top helps prevent cuts, scrapes and bruises

M-Pact II Impact Gloves (Glove 302 Series)

- Deliver extra protection and durability
- Molded TPR (Thermal Plastic Rubber) top helps prevent cuts, scrapes and bruises
- Extra palm padding for extra comfort



GLOVE301RM



GLOVE302RM

	Stock No.	Color	Size
Impact Gloves (M-Pact Series)	GLOVE301RS	Red	Small
	GLOVE301RM	Red	Medium
	GLOVE301RL	Red	Large
	GLOVE301RXL	Red	XL
	GLOVE301RXX	Red	XXL
Impact Gloves (M-Pact II Series)	GLOVE302RS	Red	Small
	GLOVE302RM	Red	Medium
	GLOVE302RL	Red	Large
	GLOVE302RXL	Red	XL
	GLOVE302RXXL	Red	XXL

CE

Cold Weather Gloves

- Comfortable and durable heavyweight fleece top is breathable and warm
- Wind resistant lining keeps cold and cutting wind at bay
- Extra layers of rubberized material on fingers and palm for improved durability, grip and protection



GLOVE303CGXL

Stock No.	Size
GLOVE303CGS	Small
GLOVE303CGM	Medium
GLOVE303CGL	Large
GLOVE303CGXL	XL
GLOVE303CGXX	XXL



GLOVE300S

Stock No.	Size
GLOVE300S	Small
GLOVE300M	Medium
GLOVE300L	Large
GLOVE300XL	XL
GLOVE300XXL	XXL

CE

Unlined Leather Work Gloves

- Use for heavy duty work and wear
- Comfort fit thumbs for dexterity and flexibility
- Embossed Snap-on® logo on reverse



GLOVE100L

Stock No.	Size
GLOVE100M	Medium
GLOVE100L	Large
GLOVE100XL	XL

Lined Leather Work Gloves

- For heavy duty work and wear
- Lined for protection and warmth
- Embossed *Snap-on* logo on reverse



GLOVE101L

Stock No.	Size
GLOVE101L	Large
GLOVE101XL	XL

Cut Resistant Gloves

- Abrasion, blade and tear resistant
- Great for tear down work, salvage yards, sheet metal work
- Provides excellent protection while maintaining great dexterity
- Level 4 abrasion resistance
- Level 3 blade cut resistance
- Level 4 tear resistance
- Level 4 puncture resistance



GLOVE410L

Stock No.	Size
GLOVE410M	Medium
GLOVE410L	Large
GLOVE410XL	XL



GLOVE400L

Abrasion Resistant Nitrile Gloves (Blue-Point®)

- Nitrile dipped coating for protection on dirty jobs
- Ergonomically pre curved design for comfort
- High abrasion resistance protects hand on sharp edges
- Incredible grip and dexterity on wet and dry surfaces

Stock No.	Quantity	Size
GLOVE400S	3 Pack	Small
GLOVE400M	3 Pack	Medium
GLOVE400L	3 Pack	Large
GLOVE400XL	3 Pack	XL
GLOVE400XXL	3 Pack	XXL



GLOVE103MA

Washable Work Gloves (Blue-Point)

- Stretch knit with padded back for extra feel and flexibility
- Extra knuckle protection
- Heat resistant synthetic double layered leather palm

Stock No.	Color	Quantity	Size
GLOVE103MA	Black	1 pair	Medium
GLOVE103LA	Black	1 pair	Large
GLOVE103XLA	Black	1 pair	XL

Glove Dispenser

GLOVEHOLDERB Latex Glove Dispensing Rack.

- Holds GLOVE1, GLOVE3, GLOVE5, GLOVE6, GLOVE7 and GLOVE8 series gloves
- Metal construction prevents damage
- Magnetic base allows attachment to tool storage unit or other ferrous metal surface
- 3 "springs" secure box firmly in holder
- Mounting holes for attachment to non ferrous surfaces
- 10" x 5 5/8" x 3 7/8"
- Black



GLOVEHOLDERB

Technician's Gloves



GLOVE6LB



GLOVE1MB



GLOVE3LC

	Stock No.	Quantity	Size
Black Nitrile Technician Gloves	GLOVE8MA	Box of 100	Medium
	GLOVE8LA	Box of 100	Large
	GLOVE8XLA	Box of 100	XL
Nitrile Technician Gloves	GLOVE5MB	Box of 100	Medium
	GLOVE5LB	Box of 100	Large
	GLOVE5XLB	Box of 100	XL
Heavy Duty Nitrile Technician Gloves	GLOVE7MB	Box of 50	Medium
	GLOVE7LB	Box of 50	Large
	GLOVE7XLB	Box of 50	XL
Latex Technician Gloves (Light Powder)	GLOVE1MB	Box of 100	Medium
	GLOVE1LB	Box of 100	Large
	GLOVE1XLB	Box of 100	XL
Latex Technician Gloves (Powder Free)	GLOVE3MBC	Box of 100	Medium
	GLOVE3LC	Box of 100	Large
	GLOVE3XLC	Box of 100	XL
Heavy Duty Latex Technician Gloves	GLOVE6MB	Box of 50	Medium
	GLOVE6LB	Box of 50	Large
	GLOVE6XLA	Box of 50	XL



GLOVE8MA



GLOVE5MB



GLOVE7LB

(Leftover stock on XLA only)

Black Nitrile (Glove 8 Series)

- Powder free plus excellent tear resistance
- Use for mechanical repairs, spray painting and refinishing applications
- Resists auto detailing chemicals

Nitrile (Glove 5 Series)

- Gloves resist nicks, cuts and abrasions and protect against chemical splashes
- 3X the puncture resistance of natural latex or vinyl gloves
- Light powdering facilitates removal with minimal residue
- Micro textured for better gripping

Heavy Duty Nitrile (Glove 7 Series)

- Use for paint mixing, parts cleaning, transmission rebuilds and more
- Superior puncture resistance to that of natural latex or vinyl gloves
- Resists nicks, cuts, and abrasions and protects against chemical splashes
- Thick 8 mil nitrile construction
- Extra long "sleeve" for additional protection
- Powderfree. Textured for better gripping.

Latex (Light Powder) (Glove 1 Series)

- Hypoallergenic gloves reduce the chance of allergic reaction
- Protects hands from paint, grease and harsh chemicals
- Light powder. Disposable. 6 mil thick

Latex (Powder Free) (Glove 3 Series)

- Hypoallergenic gloves reduce the chance of allergic reaction
- Protects hands from paint, grease and harsh chemicals
- 6 mil thick

Heavy Duty Latex (Glove 6 Series)

- 14 mil thickness for heavy duty usage
- Textured fingers and palm for maximum grip
- Lightly powdered for easy on/off
- Will resist most shop chemicals
- Long cuff



WARNING



• Read safety precautions on pages W1 to W4

SAFETY EQUIPMENT

Ear and Face Protection



Ear Protection

Specifications	GA3000B*	GA3200*	YA160A	BLPEP1
Noise Reduction Rating, dB	25	28	25	21
Headband	Cushioned	Cushioned	Plastic	Plastic
Ear Piece	Cushioned	Cushioned	Foam	Foam
Adjustable Ear Pieces	•	•		
Ear Piece Replacements			YA160A1	BLPEP1-1
Weight, lbs	.49	.77	.06	.05

*Blue-Point®



Face Protection

Specifications	GA224B	GA225*	EFPBONEHEDA	EFPSTRIKERA	EFPNSTLKRA	EFPHANNIBALA
Shield Style	Flat	Flat	180° Peripheral	180° Peripheral	180° Peripheral	180° Peripheral
Shield Size	8" x 12" x 0.04"	7 3/4" x 15 1/4"	35 1/2 sq in Viewing Area	35 1/2 sq in Viewing Area	35 1/2 sq in Viewing Area	35 1/2 sq in Viewing Area
Headband	•	•	•	•	•	•
Adjustable Headband	•	•	•	•	•	•
Impact Resistance	•	•	•	•	•	•
Shield Included	Clear	Clear	Clear and #10 Welding	Clear and #10 Welding	Clear, #10 Welding	Clear, #10 Welding
Replacement Shields	GA224B1 (Clear) GA224B1G (Dark Green)	GA225-1 (with PETG) GA225-2 (with PC)	EFPCLLENSREP (Clear) EFP10WLDLENS (#10 Welding) EFP3WLDLENS (#3 Welding) EFP5WLDLENS (#5 Welding) EFP8WLDLENS (#8 Welding) EFP12WLDLENS (#12 Welding)	EFPCLLENSREP (Clear) EFP10WLDLENS (#10 Welding) EFP3WLDLENS (#3 Welding) EFP5WLDLENS (#5 Welding) EFP8WLDLENS (#8 Welding) EFP12WLDLENS (#12 Welding)	EFPCLLENSREP (Clear) EFP10WLDLENS (#10 Welding) EFP3WLDLENS (#3 Welding) EFP5WLDLENS (#5 Welding) EFP8WLDLENS (#8 Welding) EFP12WLDLENS (#12 Welding)	EFPCLLENSREP (Clear) FP10WLDLENS (#10 Welding) EFP3WLDLENS (#3 Welding) EFP5WLDLENS (#5 Welding) EFP8WLDLENS (#8 Welding) EFP12WLDLENS (#12 Welding)

*Blue-Point

Eye Protection



Safety Glasses/Glass 1, 4, 5, 6 Series

Specifications	GLASS1R	GLASS1BK	GLASS4A	GLASS5A	GLASS6A	GLASS6AAM
Lens	Clear	Clear	Clear XTR	Espresso XTR	Mirror XTR	Amber XTR
Frame	Red	Black	Black (Nylon)	Black (Nylon)	Black (Nylon)	Black (Nylon)
Antifog Lens Coating	•	•	•	•		•
Antiscratch Lens Coating	•	•				
Temple Length Adjustment	•	•	3 Position	3 Position	3 Position	3 Position
Tilt Adjustment	•	•				
Design	Contemporary & Lightweight	Contemporary & Lightweight	6 base lens curve and folded back lens	6 base lens curve and folded back lens	6 base lens curve and folded back lens	6 base lens curve and folded back lens
Lens Replacement Available	•	•				
Meets Requirements	ANSI Z87.1, CSA Z94.3-1992, EN166	ANSI Z87.1, CSA Z94.3-1992, EN166	ANSI Z87.1	ANSI Z87.1	ANSI Z87.1	ANSI Z87.1
Additional Info			Increased peripheral vision and protection	Increased peripheral vision and protection	Increased peripheral vision and protection	Increased peripheral vision and protection



Safety Glasses/Glass 9, 10, 11, 12, 13 Series

Specifications	GLASS9BK	GLASS10BK	GLASS11BK	GLASS12BKA	GLASS13CPA
Lens	Clear	Brown	Mirror	Clear	Brown
Frame	Black	Black	Black	Black Ear Pieces	Black Ear Pieces
Antifog Lens Coating	•	•			
Antiscratch Lens Coating	•	•			
Temple Adjustment	•	•	•	5 Position	5 Position
Design	Contemporary, sporty wraparound	Contemporary, sporty wraparound	Contemporary, sporty wraparound	Frameless, Sleek, Contemporary	Frameless, Sleek, Contemporary
Lens Replacement Available	•	•	•		
Meets Requirements	ANSI Z87.1	ANSI Z87.1	ANSI Z87.1	ANSI Z87.1	ANSI Z87.1



Safety Glasses/Glass 20 Series

Specifications	GLASS20BK	GLASS20R	GLASS20BKY	GLASS20RM	GLASS20BLM	GLASS20BKW	GLASS20BL
Lens	Clear	Clear	Amber	Mirror	Mirror	Dark Green (Shade #5)	Clear
Frame	Black	Red	Black	Red	Blue	Black	Blue
Lens Replacement Available						GLASS20LENSW	
Additional Info	White Snap-on Logo on Temples	White Snap-on Logo on Temples	White Snap-on Logo on Temples	White Snap-on Logo on Temples	White Snap-on Logo on Temples	White Snap-on Logo on Temples	White Snap-on Logo on Temples

ANSI Z87.1, CSA Z94.3 and MIL-STD-662.



Safety Glasses/Glass 30 and 31 Series

Specifications	GLASS30R	GLASS30BK	GLASS31R	GLASS31BK
Lens	Clear	Clear	Clear	Clear
Frame	Red	Black	Red	Black
Antifog Coating	•	•	•	•
Antiscratch Coating	•	•	•	•
Ventilation Channel	•	•		

ANSI Z87.1

Protective Eyeshields

GLASSVIS Protective Eyeshields.

- Will fit over prescription glasses or can be worn alone
- Wraparound side shields, impact resistant and antiglare guard
- Clear uncoated lens with black frames
- ANSI Z87.1, CSA Z94.3 and MIL-STD-662

GLASSIBOTG Protective Eyeshields.

- Single panoramic lens offers increased visibility
- Protective coating resists fogging, scratching, static and UV rays
- Frames adjust horizontally and vertically for comfort
- Side impact protection
- Universal nose bridge
- Snap-on® logo on ear piece
- ANSI Z87.1



Safety Glasses with Ear Plugs (Blue-Point®)

- Lightweight
- Contemporary design with polycarbonate lens that absorb 99.9% UV
- Built-in ear protection
- Nylon slide allows for easy extension and retraction of tethered ear plugs
- Ear plugs extend over 4 1/2" for easy insertion into ear canals
- Soft plastic nose bridge provides added comfort and adjustability
- ANSI Z87.1

GLASS40CEAR Clear Lens.

GLASS40YEAR Amber Lens.

GLASS40GEAR Gray Lens.

GLASS40-1 Replacement Ear Plugs.



WARNING



• Read safety precautions on pages W1 to W4

SAFETY EQUIPMENT

Eye Protection



GAC1575B

GOGGLE1

GOGGLE2ATOR

Safety Goggles

GAC1575B Dust/Impact Goggles.

- Plastic lenses conform to American National Safety Standards and OSHA requirements for high mass and high impact tests
- Soft, perforated, vent style form fitting plastic frame
- ANSI® Z87.1

GOGGLE1 Protective Goggles.

- Durable molded frame with soft and flexible elastomer that seals for a custom fit
- Quick adjust headband clips permit fast and easy fitting
- Indirect ventilation system channels and directs airflow over the lens, minimizing fogging and improving vision potential while providing superior splash and impact protection
- Uvex 4C+™ lens coating to protect against fogging, scratches and UV rays
- ANSI Z87.1

GOGGLE2ATOR Safety Goggles.

- Durable molded frame with soft and flexible elastomer that seals for a custom fit
- Quick adjust headband clips permit fast and easy fitting
- Indirect ventilation system channels and directs airflow over the lens, minimizing fogging and improving vision potential while providing superior splash and impact protection
- Uvex 4C+™ lens coating to protect against fogging, scratches and UV rays
- ANSI Z87.1



GAC1125



GAC1150A



GAC1175A



GAC1100C

Biker Style Safety Goggles

- Adjustable side vent for increased airflow
- Lightweight and comfortable with wide pivot headband to allow optimal placement
- Cushioned eye cups for extra comfort, anti fog lens is standard
- Folds easily for compact storage
- ANSI Z87.1

GAC1125 Safety Goggles. Amber anti fog lens.

GAC1150A Safety Goggles. Smoked anti fog lens.

GAC1175A Safety Goggles. Clear anti fog lens.

GAC1100C Safety Goggles. Green tinted lens for acetylene torch work.



YA199

YA199 Full Face Respirator.

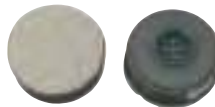
- Includes 2 organic vapor cartridges and 2 N95 prefilters
- Provides a comfortable fit with durable silicone face piece standard nose cup to prevent fogging and exceptional wide view antiscratch lens
- Helps protect against organic vapors, dusts and mists when used with YA1991 N95 prefilter and YA1992 organic vapor cartridge
- Do not exceed maximum use concentrations established by regulatory standards



YA1992

YA1992 Organic Vapor Cartridge.

- Protects against organic vapors
- Includes 1 pair
- Do not exceed maximum use concentrations established by regulatory standards
- Do not use with isocyanates



YA127C9

YA127C9 Prefilter/Filter Set.

- Includes plastic cover, YA1991 N95 pre filter and YA1992 organic vapor cartridge



YA1991

YA1991 N95 Prefilter.

- 95% filter efficiency level
- Effective against particulate aerosols free of oil
- Includes 6 pair
- Do not exceed maximum use concentrations established by regulatory standards



YA127C

Respirators and Filters

YA127C Half Mask Respirator.

- Includes organic vapor cartridges and N95 prefilters
- Approved by NIOSH and meets OSHA regulations governing particulate respirators under 42 CFR 84
- Large sealing surface and advanced yoke design for excellent non slip fit
- Helps protect against organic vapors, dusts and mists when used with YA1991 N95 pre filter and YA1992 organic vapor cartridge
- Do not exceed maximum use concentrations established by regulatory standards



Sets That Grow With You.

Your needs change over time. So whether you're getting ready for your first day on the job, your new promotion, or you're finally upgrading from your trusty old set—Snap-on has set building solutions to fit your needs. Beginning with our Apprentice Set, each tool set builds on the others, allowing you to gradually grow your tool collection with your skills and responsibilities. Or, you can do it all at once. Veterans of the shop will find our larger sets to be the most comprehensive in the industry—giving you an all-in-one, turn-key solution for increased productivity.

How the Program Works.

If you're building a set from the ground up, start with our **9100GSBO Apprentice Set**. It includes a balanced selection of 1/4", 3/8" and 1/2" square drive tools, wrenches, screwdrivers, pliers, punches and chisels—a basic set for routine maintenance. When your needs grow, add the second tool group: **9000GS2**—it provides more than 100 additional tools for more advanced work. As you add on each new tool group, you can expand your storage to help you stay organized and productive. Through this method of steady, planned expansion, you can continue building your tool inventory until you've achieved the ultimate selection of matched hand tools and storage units.

Talk to your Snap-on franchisee or representative to learn more.

9600GSBO Complete U.S. Set 6
Over 1,000 pieces including a KRL791APBO tool chest and a KRL722BPBO roll cab.



SET BUILDING

U.S. Sets



9100GSO

U.S. Apprentice Set

9100GSBO Complete Apprentice Set.

- Includes 9100 SO and KRA2055FPBO top chest

9100GSO Apprentice Set.

- More than 100 pieces for a well balanced selection

- Tools only

9100GSM Metric Plus Apprentice Set.

- 9100 S set plus AWM110DK metric hex wrench Set (11 pcs), 212FMY Metric 12-point socket Set (12 pcs) and OEXM710B metric 12-point combination wrench set (10 pcs)

- Does not include top chest



KRA2055FPBO



9000GS2

U.S. Set 2

9200GSB Complete U.S. Set 2.

- Includes 9100 SO, 9000 S2 plus KRA4059FPBO top chest

9200AGSO U.S. Set 2.

- More than 200 pcs: includes all tools in 9100 SO and 9000 S2

- Does not include tool storage

9000GS2 Add-on Group 2.

- More than 100 pcs in the add on to 9100 SO apprentice set
- Tools only



KRA4059FPBO

9100GSO Apprentice Set

Stock No.	Description	Page
114ATMP	1/4" Dr. General Service Set, 6 Point (14 pcs)	90
206EAU	3/8" Dr. Adaptor/Extension Set (6 pcs)	83
211FSY	3/8" Dr. Socket Set, 6 Point (11 pcs)	26
211SFSY	3/8" Dr. Deep Socket Set, 6 Point (11 pcs)	27
317MSPC	1/2" Dr. General Service Set, 6 Point (17 pcs)	98
91ACP	Adjustable Joint Pliers, 9 1/4"	168
AW1015DHK	Hex Wrench Set (15 pcs) (.028" to 3/8")	131
BP16B	Ball Peen Hammer, 16 oz	189
CSA8C	Carbon Scraper	197
ECF201A	3 W, (2) D Cell, LED Flashlight	526
F80	3/8" Dr. Sealed Head Ratchet	8
GA295	Round Mirror (2 1/4" Diameter)	565
GAC1580	Goggles	
HBPT16	Plastic Tip Hammer	188
HSG319	Bi-Mold Handle Hacksaw	190
OEX709B	Combination Wrench Set, 12 Point (9 pcs)	109
PL300CF	Needle Nose/Diagonal Cutter/Pliers Set, 3 pcs	165
PPC710BK	Punch and Chisel Set, 11 pcs	184
PRH57A	Retaining Ring Pliers	171
PT5C	Magnetic Pick Up Tool	566
PWC6	Wire Stripper/Cutter, 6"	175
SHDX800	Combination Screwdriver Set (8 pcs)	140
TPMA12	Tape Rule, U.S. (12)	564

9000GS2 Add-on Group

Stock No.	Description	Page
110STMY	1/4" Dr. Deep Socket Set, 6 Point (10 pcs)	19
112TMMY	1/4" Dr. Metric Shallow Socket Set, 6 Point (12 pcs)	18
1650	Prybar, 16"	163
2004BSKA	Battery Service Kit (4 pcs)	464
212EFTXY	1/4" and 3/8" Dr. Torx® Driver Set (12 pcs)	57
212FSMY	3/8" Dr. Metric Shallow Socket Set, 6 Point (12 pcs)	26
212SFSMY	3/8" Dr. Metric Deep Socket Set, 6 Point (12 pcs)	27
97CCP	Needle Nose Pliers, 8"	167
AC5C	Hand Scratch Brush	607
AWM110DHK	Metric Hex Wrench Set, L-Shaped	131
EECT4H	Circuit Tester	435
FADH12A	Adjustable Wrench, Cushion Handle, 12"	133
FB303B	Wire Gap Gauge	563
FB316B	Spark/Ignition Gauge (18 blades)	562
FB325A	U.S./Metric Gauge (25 blades)	237
FB361A	Gapper Gauge	563
FLF80	3/8" Dr. Long Flex Head Sealed Ratchet	8
FXK11	3/8" Dr. Extension, 11"	74
GSAF1E	Square Drive Adaptor	83
LP10WR	Locking Pliers, 10"	169
OEX30B	Std. Length Combination Wrench, 15/16"	109
OEX32B	Combination Wrench, 12 Point, 1"	109
OEXM710B	Metric Combination Wrench Set (10 pcs)	108
PK53A	Putty Knife/Scraper	197
RXFS605B	3/8" Dr. Double End Flare Nut Wrench Set (5 pcs)	121
S9704KA	3/8" Dr. Spark Plug Retention Socket, 6 Point, 13/16"	204
S9706KRA	Spark Plug Retention Socket, 6 Point, 5/8"	203
SGA173BR	Radiator Hose Pick	480
SGASA204A0	Miniature Pick Set, 4 pcs	159
SGDMRC44B	Ratcheting Soft Grip Screwdriver	149
SGT4BR	1/4" Dr. Standard Shank Driver	82
TMXK60	1/4" Dr. Extension, 6"	72

9000GS30 Add-on Group

Stock No.	Description	Page
112STMMY	1/4" Dr. Metric Deep Socket Set, 6 Point (12 pcs)	19
207EFAMY	3/8" Dr. Metric Hex Driver Set (7 pcs)	60
208EFAY	3/8" Dr. Hex Driver Set (8 pcs)	62
309SIMYA	1/2" Dr. Deep Impact Socket Set, 6 Point (9 pcs)	43
310IMMYA	1/2" Dr. Metric Shallow Impact Socket Set, 6 Point (10 pcs)	41
310SIMMYA	1/2" Dr. Metric Deep Impact Socket Set, 6 Point (10 pcs)	43
311IMYA	1/2" Dr. Shallow Impact Socket Set, 6 Point (11 pcs)	42
313TWMYA	1/2" Dr. Metric Socket Set, 6 Point (13 pcs)	37
AC58E	Wire Brush	607
GA3000B	Ear Protectors	614
IP80D	1/2" Dr. Impact Universal Joint	86
JCK7D	Fender Cover	556
JT13B	Blow Gun	322
MG725	1/2" Dr. Impact Wrench	288
OEXM6B	Metric Short Combination Wrench, 12 Point, 6 mm	110
OEXM7B	Metric Short Combination Wrench, 12 Point, 7 mm	110
OEXM8B	Metric Short Combination Wrench, 12 Point, 8 mm	110
OEXM9B	Metric Short Combination Wrench, 12 Point, 9 mm	110
QD3R250	1/2" Dr. Torque Wrench, 50-250 ft lb	249
RXFMS606B	Metric Double End Flare Nut Wrench Set (6 pcs)	121
S8	1/2" Dr. Universal Joint	85
SL80A	1/2" Dr. Long Handle Sealed Ratchet	10
SPBS240	Prybar with Handle, 24", Orange	161
SXK3	1/2" Dr. Extension, 3 1/2"	77
TF72	1/4" Dr. Flex Head Sealed Ratchet	77
TMXK140	1/4" Dr. Extension, 14"	72

9000GS40 Add-on Group

Stock No.	Description	Page
1250	Prybar, 12"	163
206AFSA	3/8" Dr. Universal Shallow Socket, 12 Point (6 pcs)	35
206FSUMA	3/8" Dr. Metric Universal Shallow Socket Set, 6 Point (6 pcs)	35
207SFRH	3/8" Dr. Metric Crowfoot Wrench Set (7 pcs)	122
210FRHMA	3/8" Dr. Metric Crowfoot Wrench Set (10 pcs)	122
313TSYA	1/2" Dr. Deep Socket Set, 6 Point (13 pcs)	38
388CF	High Leverage Cutters	166
61ACP	Duck Bill Pliers	167
AWP160	Adjustable Joint, Tongue & Groove Pliers	168
BP24B	Ball Peen Hammer, 24 oz	189
CJ2001P	Bolt Grip Puller Set	222
CSA12CO	Carbon Scraper, Orange	197
E1020	Extractor Set, 20 pcs	212
FADH8A	Adjustable Wrench, Cushion Handle, 8"	133
FL80	3/8" Dr. Long Handle Sealed Ratchet	8
FX24A	3/8" Dr. Extension, 24"	74
FXK4	3/8" Dr. Extension, 4"	74
FXK8	3/8" Dr. Extension, 8"	74
HBBD32	Ball Peen Dead Blow Hammer, 32 oz	187
HBFE32	Dead Blow Hammer, 32 oz	187
JCW60R	Creeper, Red	557
LP7WR	Locking Pliers, 7"	169
OEX080B	Short Combination Wrench, 12 Point, 1/4"	110
OEX10B	Combination Wrench, 12 Point, 5/16"	109
OEX34B	Combination Wrench, 12 Point, 1 1/16"	109
OEX36B	Combination Wrench, 12 Point, 1 1/8"	109
OEX40B	Combination Wrench, 12 Point, 1 1/4"	109
OEXM200B	Metric Combination Wrench, 12 Point, 20 mm	108
OEXM210B	Metric Combination Wrench, 12 Point, 21 mm	108
OEXM220B	Metric Combination Wrench, 12 Point, 22 mm	108
OEXS709B	Short Combination Wrench Set, 12 Point (9 pcs)	110
OEXSM710B	Metric Short Comb. Wr. Set, 12 Point (10 pcs)	110
PPB1012A	Bronze Tapered Punch, 3/8"	185
PPC104A	Pin Punch, 1/8"	184
PPC108A	Pin Punch, 1/4"	184
PPC204A	Starter Punch, 1/8"	184
PPC208A	Starter Punch, 1/4"	184
PPC3A	Center Punch, 1/8"	184
PPC5A	Punch/Chisel Holder	184
SGCP1BR	Cotter Pin Puller	480
SGHBF500A	File Set with Handles (4 pcs)	195
SHDX400	Mini Combination Screwdriver Set, Orange (4 pcs)	140
SN24C	1/2" Dr. Breaker Bar, 24"	16
SPBS180	Prybar w/Handle, 18" Orange	161
SRPC105	Retaining Ring Pliers Set (5 pcs)	170
SSM5A	Flat Tip Screw Starter	152
SX2	1/2" Dr. Extension, 2"	77
TA3	1/4" to 3/8" Adaptor	81
TD2425	Tap and Die Set (41 pcs)	208
TDM117A	Metric Tap and Die Set (41 pcs)	209
TF528D	Tube Cutting and Double Flaring Set	200
TM61A	1/4" Dr. Flexible Extension, 6"	73
TMX1	1/4" Dr. Extension, 1 1/4"	72
TMXK110	1/4" Dr. Extension, Knurled, 11"	72
UTK100	Utility Knife	194



9000GS30

U.S. Set 3

9300GSBO Complete U.S. Set 3.

- Includes 9200AGSO, 9000GS30 plus KRA4059FPBO top chest and KRA4008FPBO roll cab



KRA4059FPBO

9300GSO U.S. Set 3.

- More than 300 pcs: includes all tools in 9200AGSO and 9000GS30
 - Does not include tool storage
- #### 9000GS30 Add-on Group 3.
- More than 100 pcs in the add-on to 9200AGSO U.S. Set 2
 - Tools only



KRA4008FPBO



9000GS40

U.S. Set 4

9400GSBO Complete U.S. Set 4.

- Includes: 9300GSO, 9000GS40 plus KRL751PBO top chest and KRL756CPBO roll cab



KRL751PBO

9400GSO U.S. Set 4.

- More than 600 pcs: includes all tools in 9300GSO and 9000GS40
 - Does not include tool storage
- #### 9000GS40 Add-on Group 4.
- More than 250 pcs in the add-on to 9300GSO U.S. Set 3
 - Tools only



KRL756CPBO



WARNING



• Read safety precautions on pages W1 to W4

SET BUILDING

U.S. Sets



9000GS50



KRL751PBO



KRL756CPBO

U.S. Set 5

9500GSBO Complete U.S. Set 5.

- Includes 9400 SO, 9000 S50 plus KRL751PBO top chest and KRL756CPBO roll cab

9500GSO U.S. Set 5.

- More than 800 pcs: includes all tools in 9400 SO and 9000 S50
- Does not include tool storage

9000GS50 Add-on Group 5.

- More than 150 pcs in the add-on to 9400 SO U.S. Set 4
- Tools only

9000GS50 Add-on Group

Stock No.	Description	Page	Stock No.	Description	Page
196CF	Needle Nose Pliers with Side Cutter, 7 1/8"	167	OXI706B	Fractional Midget Comb. Wrench Set, 12 point (6 pcs)	111
212IMFYA	3/8" Dr. Shallow Impact Socket Set, 6 Point (12 pcs)	32	OXI8B	Midget Combination Wrench, 12 Point, 1/4"	111
212SIMFYA	3/8" Dr. Deep Impact Socket Set, 6 Point (12 pcs)	33	OXIM710B	Metric Midget Comb. Wrench Set, 12 Point (10 pcs)	111
214IMFYA	3/8" Dr. Shallow Impact Socket Set, 6 Point (14 pcs)	32	OXIM7B	Metric Midget Combination Wrench, 12 Point, 7 mm	111
214SIMFYA	3/8" Dr. Deep Impact Socket Set, 6 Point (14 pcs)	33	OXIM8B	Metric Midget Combination Wrench, 12 Point, 8 mm	111
313TSMYA	1/2" Dr. Metric Deep Socket Set, 6 Point (13 pcs)	38	OXIM9B	Metric Midget Combination Wrench, 12 Point, 9 mm	111
497CCP	Needle Nose Pliers (90° Angle Jaw) 6 5/8"	167	PPC110A	Pin Punch, 5/16"	184
650	Prybar, 6"	163	PPC112	Pin Punch, 3/8"	184
AWP120	Adjustable Joint, Tongue & Groove Pliers	168	PPC210A	Starter Punch, 5/16"	184
BP8B	Ball Peen Hammer, 8 oz	189	PPC824B	Flat Chisel, 3/4"	184
CJ2002	Bar Type Gear Puller Set	221	PPC828B	Flat Chisel, 7/8"	184
F12LA	3/8" Dr. Breaker Bar	16	PT28E	Pick Up Tool	566
FADH10A	Adjustable Wrench, Cushion Handle, 10"	133	PWC14	Wire Stripper/Cutter/Crimper/Bolt Cutter, 8 3/4"	175
FAR7200	Super Duty Air Ratchet, 3/8" Drive	292	QD2R100	3/8" Dr. Adj. Click Type Torque Wrench 20-100 ft lb	249
FBF80	3/8" Dr. Bent Flex Head Sealed Ratchet	8	RTD48	Rethreading Kit (48 pcs)	205
FK80	3/8" Dr. Stubby Head Sealed Ratchet	8	S9704KFUA	3/8" Dr. Spark Plug Universal Socket, 13/16"	202
HBT24	Bronze Tip Hammer, 24 oz	188	S9706KRFUA	3/8" Dr. Universal Spark Plug Socket, 6 Point, 5/8"	203
IMM200	1/2" Dr. Metric Shallow Impact Socket, 6 Point, 20 mm	41	SDM400A	Screwdriver Bit Kit (37 pcs)	154
IMM210	1/2" Dr. Metric Shallow Impact Socket, 6 Point, 21 mm	41	SF80A	1/2" Dr. Flex Head Sealed Ratchet	10
IMM220	1/2" Dr. Metric Shallow Impact Socket, 6 Point, 22 mm	41	SHDP1620	Phillips® Tip Screwdriver, #2, Orange, 16"	143
IMM230	1/2" Dr. Metric Shallow Impact Socket, 6 Point, 23 mm	41	SHDP21RO	Phillips Tip Screwdriver, #2, Orange, 6"	143
IMM240	1/2" Dr. Metric Shallow Impact Socket, 6 Point, 24 mm	41	SHDP631RO	Phillips Tip Screwdriver, #3, Orange, 6"	143
IPF800B	3/8" Dr. Impact Universal Joint	85	SIMM200	1/2" Dr. Deep Impact Socket, 6 Point, 20 mm	43
KB2178	Kit Bag	184	SIMM210	1/2" Dr. Deep Impact Socket, 6 Point, 21 mm	43
MG325	3/8" Dr. Air Impact Wrench	290	SIMM220	1/2" Dr. Deep Impact Socket, 6 Point, 22 mm	43
OEX11B	Combination Wrench, 12 Point, 1 1/32"	109	SIMM230	1/2" Dr. Deep Impact Socket, 6 Point, 23 mm	43
OEX260B	Short Combination Wrench, 12 Point, 1 3/16"	110	SIMM240	1/2" Dr. Deep Impact Socket, 6 Point, 24 mm	43
OEX280B	Short Combination Wrench, 12 Point, 7/8"	110	SPBS120	Prybar with Handle, 12", Orange	161
OEX300B	Short Combination Wrench, 12 Point, 15/16"	110	SSDE42C	Flat, Thin Blade Electronic Screwdriver	144
OEX320B	Short Combination Wrench, 12 Point, 1"	110	SSDE43C	Flat, Thin Blade Electronic Screwdriver	144
OEX38B	Combination Wrench, 12 Point, 1 3/16"	109	SSDE44C	Flat, Thin Blade Electronic Screwdriver	144
OEX42B	Combination Wrench, 12 Point, 1 5/16"	109	SSDE46C	Flat, Thin Blade Electronic Screwdriver	144
OEX8B	Combination Wrench, 12 Point, 1/4"	109	SSDE48C	Flat, Thin Blade Electronic Screwdriver	144
OEXM230B	Metric Standard Combination Wrench, 12 Point, 23 mm	108	SSDMR1A0	Ratcheting Magnetic Screwdriver, Orange	150
OEXM240B	Metric Standard Combination Wrench, 12 Point, 24 mm	108	TC123C	Tube Cutter	199
OEXM90B	Metric Standard Combination Wrench, 12 Point, 9 mm	108	VS807B	Open End Wrench Set (7 pcs)	119
OXI10B	Midget Combination Wrench, 12 Point, 3/16"	111	XB605A	Fractional Offset Box Wrench Set, 12 Point (5 pcs)	113
OXI12B	Midget Combination Wrench, 12 Point, 3/8"	111	XBM605A	Metric Box End Wrench Set, 12 Point (5 pcs)	113



KRL722BPBO



KRL791APBO



KRA276D



9000GS60

U.S. Set 6

9600GSBO Complete U.S. Set 6.

- Includes 9500GSO, 9000GS60 plus KRL791APBO top chest, KRL722BPBO roll cab and KRA276D wall cabinet

9600GSO U.S. Set 6.

- More than 1,000 pcs: includes all tools in 9500GSO and 9000GS60
- Does not include tool storage

9000GS60 Add-on Group 6.

- More than 250 pcs in the add-on to 9500GSO U.S. Set 5
- Tools only

9000GS60 Add-on Group

Stock No.	Description	Page	Stock No.	Description	Page
106ATMXWP	1/4" Dr. Wobble Extension Set (6 pcs)	73	IMTMM15	1/4" Dr. Metric Impact Socket, 6 Point, 15 mm	23
106TMUSA	1/4" Dr. Universal Socket Set, 6 Point (6 pcs)	24	IMTMM5	1/4" Dr. Metric Impact Socket, 6 Point, 5 mm	23
10SSD	Offset Flat Tip Screwdriver	147	IMTMM5.5	1/4" Dr. Metric Impact Socket, 6 Point, 5.5 mm	23
110ETMAY	1/4" Dr. Hex Driver Set (10 pcs)	62	IMTMM6	1/4" Dr. Metric Impact Socket, 6 Point, 6 mm	23
120SSDP	Offset Phillips® Screwdriver, #1 and #2	147	IMTMM7	1/4" Dr. Metric Impact Socket, 6 Point, 7 mm	23
2050	Prybar, 20"	163	IMTMM8	1/4" Dr. Metric Impact Socket, 6 Point, 8 mm	23
205IPF	Frac. 3/8" Dr. Swivel Impact Socket Set, 6 Point (5 pcs)	36	IMTMM9	1/4" Dr. Metric Impact Socket, 6 Point, 9 mm	23
206AFXWP	3/8" Dr. Wobble Plus Extension Set (6 pcs)	46	LP6LN	Locking Long Nose Pliers, 6"	169
20SSD	Offset Flat Tip Screwdriver	76	NDD1070A	Fractional Nut Driver Set, 6 Point (7 pcs)	153
307IPLY	Frac. 1/2" Dr. Impact Swivel Socket Set, 6 Point (5 pcs)	46	OEX44B	Combination Wrench, 12 Point, 1 3/8"	109
A265A	Socket Rail, 12 Clips, 1/4" Drive, 7 3/8"	46	OEX46B	Combination Wrench, 12 Point, 1 7/16"	109
A271BB	Bulk Clips (qty. 6)	387	OEX48B	Combination Wrench, 12 Point, 1 1/2"	109
AWP45	Adjustable Joint, Tongue & Groove Pliers, 4 3/4"	168	PDR3000A	Air Drill, 3/8"	294
AWP65	Adjustable Joint, Tongue & Groove Pliers, 7"	168	PPR708BK	Roll Pin Punch Set (8 pcs)	185
BP12B	Ball Peen Hammer, 12 oz	189	R810C	Frac. Ratcheting Box Wrench, 12 Point, 1/4"-5/16"	115
CHN480	Adjustable Joint Pliers, 20"	168	RB604C	Frac. Ratcheting Box Wrench Set, 12 Point (4 pcs)	115
CJ2003A	Rear Axle Puller Set	168	RXS605B	Flare Nut/Open End Wrench Set, 6 Point (5 pcs)	120
CJ2004	Interchangeable Puller Set	221	SGFMM106	Mixed File Set (6 pcs)	195
CJ2005	Puller Accessory Set	221	SHDTX3150	T15 Torx® Screwdriver, Orange	147
CM6551	Miniature Screwdriver Set (5 pcs)	147	SHDTX3200	T20 Torx Screwdriver, Orange	147
DBTR129	Drill Bit Set, 29 Bits	310	SPBS80	Prybar with Handle, 8", Orange	161
E703BCG	Electronic Needle Nose Pliers	172	SSDMR8A0	Ratcheting Magnetic Screwdriver, Orange	150
E704BCG	Elec. Needle Nose Pliers, 60° Bent Tip, Non-Serrated	172	SX15	1/2" Dr. Extension, 15"	77
E710BCG	Electronic Taper Head Cutters, True Flush Cut	173	TD9902B	Tap and Die Set (25 pcs)	208
FADH6A	Adjustable Wrench, Cushion Handle, 6"	133	TS381	1/2" Dr. Deep Socket, 6 Point 1 3/16"	38
FAR25A	1/4" Dr. Air Ratchet	292	TS401	1/2" Dr. Deep Socket, 6 Point 1 1/4"	38
FS12B	3/8" Dr. Universal Shallow Socket, 6 Point, 3/8"	35	TS421	1/2" Dr. Deep Socket, 6 Point 1 9/16"	38
FSUM11A	3/8" Dr. Universal Shallow Socket, 6 Point, 11 mm	35	TW381	1/2" Dr. Socket, 6 Point 1 3/16"	37
FSUM16A	3/8" Dr. Universal Shallow Socket, 6 Point, 16 mm	35	TW401	1/2" Dr. Socket, 6 Point 1 1/4"	37
FSUM18A	3/8" Dr. Universal Shallow Socket, 6 Point, 18 mm	35	TW421	1/2" Dr. Socket, 6 Point 1 9/16"	37
FSUM19A	3/8" Dr. Universal Shallow Socket, 6 Point, 19 mm	35	TW441	1/2" Dr. Socket, 6 Point 1 3/8"	37
FX18	3/8" Dr. Extension, 18"	35	TW461	1/2" Dr. Socket, 6 Point 1 7/16"	37
FX36	3/8" Dr. Extension, 36"	74	TW481	1/2" Dr. Socket, 6 Point 1 1/2"	37
HBFE48	Dead Blow Hammer, 48 oz	74	TWM25	1/2" Dr. Metric Socket, 6 Point, 25 mm	37
IMTM10A	1/4" Dr. Shallow Impact Socket, 6 Point, 5/16"	23	TWM26	1/2" Dr. Metric Socket, 6 Point, 26 mm	37
IMTM12A	1/4" Dr. Shallow Impact Socket, 6 Point, 3/8"	23	TWM27	1/2" Dr. Metric Socket, 6 Point, 27 mm	37
IMTM14A	1/4" Dr. Shallow Impact Socket, 6 Point, 7/16"	23	TWM30	1/2" Dr. Metric Socket, 6 Point, 30 mm	37
IMTM16A	1/4" Dr. Shallow Impact Socket, 6 Point, 1/2"	23	TWM32	1/2" Dr. Metric Socket, 6 Point, 32 mm	37
IMTM18A	1/4" Dr. Shallow Impact Socket, 6 Point, 9/16"	23	VE200A	Tool Control Board	221
IMTM8A	1/4" Dr. Shallow Impact Socket, 6 Point, 1/4"	23	VS26B	Open End Wrench, 1 3/16"	119
IMTMM10	1/4" Dr. Metric Impact Socket, 6 Point, 10 mm	23	VS28B	Open End Wrench, 7/8"	119
IMTMM11	1/4" Dr. Metric Impact Socket, 6 Point, 11 mm	23	VS30B	Open End Wrench, 15/16"	119
IMTMM12	1/4" Dr. Metric Impact Socket, 6 Point, 12 mm	23	VS32B	Open End Wrench, 1"	119
IMTMM13	1/4" Dr. Metric Impact Socket, 6 Point, 13 mm	23	X0605	Fractional Offset Box Wrench Set, 12 Point (5 pcs)	114
IMTMM14	1/4" Dr. Metric Impact Socket, 6 Point, 14 mm	23			



WARNING



• Read safety precautions on pages W1 to W4

SET BUILDING

Metric Sets



9100AGMO

Metric Sets A

9100GMBO Complete Metric Set A.

- More than 150 pcs: includes 9100A MO plus KRA4059FPBO top chest

9100AGMOPBO Metric Basic Set A.

- Tools only



KRA4059FPBO

9100AGMO Metric Basic Set A

Stock No.	Description	Page
112STMMY	1/4" Dr. Metric Deep Skt. Set, 6-Point (12 pcs)	14
117TMM	1/4" Dr. Metric Starter Set (17 pcs)	89
1650	Prybar, 16" long	163
2004BSKA	Battery Service Kit (4 pcs)	464
206EAU	3/8" Dr. Adaptor Set (6 pcs)	83
212EFTXY	3/8" and 1/4" Dr. Torx® Driver Set (12 pcs)	57
212FSMY	3/8" Dr. Metric Socket Set, 6-Point (12 pcs)	26
212SFSMY	3/8" Dr. Metric Deep Socket Set, 6-Point (12 pcs)	27
317AMMPC	1/2" Dr. Metric Gen. Service Set, 6-Point (17 pcs)	98
91ACP	Adjustable Joint Pliers	168
97CCP	Needle Nose Pliers	167
AC5B	Wire Brush	607
AWM110DHK	Metric Hex Wrench Set (11 pcs)	131
BP16B	Ball Peen Hammer, 16 oz.	189
CSA8C	Carbon Scraper	197
ECF201A	3 watt LED Flashlight	526
EECT4H	Circuit Tester	435
F80	3/8" Dr. Sealed Ratchet	8
FADH12A	Adjustable Wrench, Cushion Handle, 12"	133
FB316B	Ignition/Spark Plug Gauge Set (18 blades)	562
FB360C	Feeler Gauge Set (6 blades)	563
FB361A	Gapper Gauge	563
FBM320	Metric Feeler Gauge Set (20 blades)	562
FLF80	3/8" Dr. Long Flex Head Sealed Ratchet	8
FXK11	3/8" 8" Dr. Extension, 11" long	74
GA295	Mirror	565
GAC1580	Chemical Splash Goggles	
GSAF1E	Square Drive Adaptor	83
HBPT16	Plastic Tip Hammer, 16 oz	188
HSG319	Bi-Mold Handle Hacksaw	190
LP10WR	Locking Pliers, 10" long	169
OEXM710B	Metric Combination Wrench Set, 12-Point (10 pcs)	108
PK53A	Scraper	197
PL300CF	Needle Nose/Diagonal Cutter/Pliers Set (3 pcs)	165
PPC710BK	Punch and Chisel Set (11 pcs)	184
PRH57A	Retaining Ring Pliers, Convertible	171
PT5C	Telescopic Pick Up Tool	566
PWC6	Wire Stripper/Cutter Pliers	175
RXFMS606B	Metric Flare Nut Wrench Set, 6-Point (6 pcs)	121
S9704KA	3/8" Dr. Spark Plug Retention Socket, 6-Point, 13/16"	204
S9706KRA	3/8" Dr. Spark Plug Retention Socket, 6-Point, 5/8"	203
SGA173BR	Radiator Hose Tool	480
SGASA204AO	Miniature Awl/Pick Set, Orange (4 pcs)	159
SGT4BR	Standard Shank Driver	82
SHDX800	Combination Screwdriver Set, Orange (8 pcs)	140
SSDMR480	Ratcheting Magnetic Screwdriver, Orange	150
TMXK60	1/4" Dr. Extension, 6" long	72
TPMA25EM	English/Metric Tape Rule 25 /7.5 M	564

Metric Sets B

9200GMBO Complete Metric Set B.

- Includes: 9100AGMO, 9000GM20 plus
KRA4059FPBO top chest and
KRA4008FPBO roll cab

9200GMO Metric Set B.

- More than 400 pcs
- Does not include tool storage

9000GM20 Add-on Group B.

- More than 200 pcs
- Tools only



9000GM20



KRA4008FPBO



KRA4059FPBO

9000GM20 Add-on Group

Stock No.	Description	Page	Stock No.	Description	Page
1250	Prybar, 12" long	163	OEXM220B	Metric Combination Wrench, 12-Point, 22 mm	108
206FSUMA	3/8" Dr. Metric Shallow Universal Socket Set, 6-Point (6 pcs)	35	OEXM6B	Metric Short Combination Wrench, 12-Point, 6 mm	110
207EFAMY	3/8" Dr. Metric Hex Driver Set (7 pcs)	60	OEXM7B	Metric Short Combination Wrench, 12-Point, 7 mm	110
210FRHMA	3/8" Dr. Met. Flare Nut Wrench Set, 6-Point (10 pcs)	122	OEXM8B	Metric Short Combination Wrench, 12-Point, 8 mm	110
310IMMYA	1/2" Dr. Shallow Metric Impact Socket Set, 6-Point (10 pcs)	41	OEXM9B	Metric Short Combination Wrench, 12-Point, 9 mm	110
310SIMMYA	1/2" Dr. Deep Metric Impact Socket Set, 6-Point (10 pcs)	43	OEXSM710B	Metric Short Combination Wrench Set 12-Point (10 pcs)	110
313TSMYA	1/2" Dr. Metric Deep Socket Set, 12-Point (13 pcs)	38	PPC104A	Pin Punch, 1/8"	184
388CF	Hi Leverage Cutters, 7 3/4" long	166	PPC108A	Pin Punch, 1/4"	184
61ACP	Duck Bill Pliers, 7 3/4" long	167	PPC204A	Starter Punch, 1/8"	184
AC58E	Wire Brush	607	PPC208A	Starter Punch, 1/4"	184
AWP160	Adjustable Joint Tongue & Groove Pliers	168	PPC3A	Center Punch, 5/16"	184
BP24B	Ball Peen Hammer, 24 oz.	189	QD3RM30	1/2" Dr. Click Type Torque Wrench, 30 kg•m	249
CJ2001P	Bolt Grip Puller Set	222	S8	1/2" Dr. Universal Joint	85
CSA12C0	Carbon Scraper	197	SGCP1BR	Cotter Pin Puller	480
E1020	Extractor Set (20 pcs)	212	SGHBF500A	File Set with Handles (4 pcs)	195
FADH8A	Adjustable Wrench, Cushion Handle, 8"	133	SL80A	1/2" Dr. Long Handle Sealed Ratchet	10
FL80	3/8" Dr. Long Handle Sealed Ratchet	200	SN24C	1/2" Dr. Breaker Bar, 24" long	16
FX24A	3/8" Dr. Extension, 24" long	74	SPBS240	Prybar with Handle, 24" long, Orange	161
FXX4	3/8" Dr. Extension, 4" long	74	SRPC105	Retaining Ring Pliers (5 pcs)	170
FXX8	3/8" Dr. Extension, 8" long	74	SXK3	1/2" Dr. Extension, 3" long	77
GA3000A	Ear Protectors	612	TA3	1/4" to 3/8" Dr. Adaptor	81
HBFE32	Dead Blow Hammer, 32 oz.	187	TC28C	Tube Cutter	199
IP80D	1/2" Dr. Impact Swivel Socket	86	TDM117A	Metric Tap and Die Set (41 pcs)	208
JCK7D	Fender Cover	556	TF72	1/4" Dr. Flex Head Sealed Ratchet	7
JT13B	Blow Gun	332	TFM428	Flaring Tool	200
LP7WR	Locking Pliers, 7" long	169	TMX1	1/4" Dr. Extension, 1" long	72
MG725	Heavy Duty Air Impact Wrench, 1/2" Dr.	288	TMXK140	1/4" Dr. Extension, 14" long	72
OEXM200B	Metric Combination Wrench, 12-Point, 20 mm	108	UTK100	Utility Knife	194
OEXM210B	Metric Combination Wrench, 12-Point, 21 mm	108			



WARNING



• Read safety precautions on pages W1 to W4

SET BUILDING

Metric Sets



9000GM30

Metric Sets C

9000GM30 Complete Metric Set C.

- Includes 9200 MO, 9000 M30 plus KRL751PBO top chest and KRL756CPBO roll cab

9300GMO Metric Set C.

- More than 600 pcs: includes all tools in 9200 MO and 9000 M30
- Does not include tool storage

9000GM30 Add-on Group C.

- More than 200 pcs in the add-on set to 9200 MO Set B
- Tools only



KRL751PBO



KRL756CPBO

9000GM30 Add-on Group

Stock No.	Description	Page	Stock No.	Description	Page
106ATMXWP	1/4" Dr. Wobble Extension Set (6 pcs)	73	OXIM8B	Metric Midget Combination Wrench, 12-Point, 8 mm	111
196CF	Needle Nose Pliers with Cutter, 7 1/8"	167	OXIM9B	Metric Midget Combination Wrench, 12-Point, 9 mm	111
206AFXWP	3/8" Dr. Wobble Plus Extension Set (6 pcs)	167	PPB1012A	Bronze Tapered Punch, 3/8"	185
214IMFMYA	3/8" Dr. Shallow Impact Socket Set, 6-Point (14 pcs)	32	PPC110A	Pin Punch, 5/16"	184
214SIMFMYA	3/8" Dr. Metric Deep Impact Socket Set, 6-Point (14 pcs)	33	PPC112	Pin Punch, 3/8"	184
497CCP	90° Angle Needle Nose Pliers, 6 5/8"	167	PPC210A	Starter Punch, 5/16"	184
650	Prybar, 6"	163	PPC5A	Punch and Chisel Holder	184
AWP120	Adjustable Joint Tongue and Groove Pliers, 12 3/4"	168	PPC824B	Flat Chisel, 3/4"	184
BP8B	Ball Peen Hammer, 8 oz.	189	PPC828B	Flat Chisel, 7/8"	184
CJ2002	Puller Set	221	PT28E	Pick Up Tool	566
F12LA	3/8" Dr. Breaker Bar	16	PWC14	Wire Stripper/Cutter/Bolt Cutter	175
FADH10A	Adjustable Wrench, Cushion Handle, 10"	133	QD2RM1000	Metric Adj. Click Type Torque Wrench 3/8"	249
FAR7200	Super Duty Air Ratchet, 3/8" Dr.	292	RTD48	Retreading Kit (48 pcs)	205
FBF80	3/8" Dr. Bent Flex Head Sealed Ratchet	8	S9704KFUA	3/8" Dr. Spark Plug Universal Socket, 11/16"	202
FK80	3/8" Dr. Short Handle Ratchet	8	S9706KRFOA	3/8" Dr. Spark Plug Universal Socket, 6-Point, 5/8"	203
HBBD32	Dead Blow Ball Peen Hammer, 32 oz	187	SDM400A	Screwdriver Bit Set (37 pcs)	154
HBBT24	Bronze Tip Hammer, 24 oz	188	SF80	1/2" Dr. Sealed Flex Head Ratchet	10
IMM200	1/2" Dr. Shallow Impact Socket, 6-Point, 20 mm	41	SGD304BR	Flat Tip Electronics Sc. Dr., .018" x 1/8" x 3"	141
IMM210	1/2" Dr. Shallow Impact Socket, 6-Point, 21 mm	41	SHDP1620	Phillips Tip Screwdriver #2, Orange	143
IMM220	1/2" Dr. Shallow Impact Socket, 6-Point, 22 mm	41	SHDP62IRO	Phillips Screwdriver, #2, Orange	143
IMM230	1/2" Dr. Shallow Impact Socket, 6-Point, 23 mm	41	SHDP63IRO	Phillips Tip Screwdriver #3, Orange	143
IMM240	1/2" Dr. Shallow Impact Socket, 6-Point, 24 mm	41	SIMM200	1/2" Dr. Deep Impact Socket, 6-Point, 20 mm	43
IPF800B	3/8" Dr. Impact Universal Joint	85	SIMM210	1/2" Dr. Deep Impact Socket, 6-Point, 21 mm	43
IPFM10C	3/8" Dr. Metric Shallow Swivel Impact Socket, 10 mm	36	SIMM220	1/2" Dr. Deep Impact Socket, 6-Point, 22 mm	43
IPFM12C	3/8" Dr. Metric Shallow Swivel Impact Socket, 12 mm	36	SIMM230	1/2" Dr. Deep Impact Socket, 6-Point, 23 mm	43
IPFM13C	3/8" Dr. Metric Shallow Swivel Impact Socket, 13 mm	36	SIMM240	1/2" Dr. Deep Impact Socket, 6-Point, 24 mm	43
IPFM14C	3/8" Dr. Metric Shallow Swivel Impact Socket, 14 mm	36	SPBS120	Prybar with Handle, 12", Orange	161
IPFM15C	3/8" Dr. Metric Shallow Swivel Impact Socket, 15 mm	36	SSDE42C	Flat Tip Electronics Sc. Drive, .018 x 1/8 x 2"	144
IPFM16C	3/8" Dr. Metric Shallow Swivel Impact Socket, 16 mm	36	SSDE44C	Flat Tip Electronics Sc. Drive, .018 x 1/8 x 4"	144
IPFM17C	3/8" Dr. Metric Shallow Swivel Impact Socket, 17 mm	36	SSDE66C	Flat Tip Electronics Sc. Drive, .030 x 3/16 x 8"	144
IPFM18C	3/8" Dr. Metric Shallow Swivel Impact Socket, 18 mm	36	SSDE68C	Flat Tip Electronics Sc. Drive, .028 x 3/16 x 8"	144
IPFM19C	3/8" Dr. Metric Shallow Swivel Impact Socket, 19 mm	36	SSDMR1A0	Ratcheting Magnetic Screwdriver, Orange 137	150
IPFM9C	3/8" Dr. Metric Shallow Swivel Impact Socket, 9 mm	36	SX2	1/2" Dr. Extension, 2" 69	77
JCW60R	Creepers	557	TC123C	Tube Cutter	199
KB2178	Kit Bag	184	TM61A	1/4" Dr. Flexible Extension, 6"	73
MG325	3/8" Dr. Air Impact Wrench	290	TMXK110	1/4" Dr. Extension, 11"	72
OEXM230B	Metric Combination Wrench, 12-Point, 23 mm	108	TWM25	1/2" Dr. Metric Socket, 6-Point, 25 mm 36	37
OEXM240B	Metric Combination Wrench, 12-Point, 24 mm	108	TWM26	1/2" Dr. Metric Socket, 6-Point, 26 mm	37
OEXM270B	Metric Combination Wrench, 12-Point, 27 mm	108	TWM27	1/2" Dr. Metric Socket, 6-Point, 27 mm	37
OEXM300B	Metric Combination Wrench, 12-Point, 30 mm	108	TWM30	1/2" Dr. Metric Socket, 6-Point, 30 mm	37
OEXM90B	Metric Combination Wrench, 12-Point, 9 mm	108	VSM807B	Metric Open End Wrench Set (7 pcs)	119
OXIM710B	Metric Midget Comb. Wrench Set, 12-Point (10 pcs)	112	XBM605A	Metric Long Offset Box Wrench Set (5 pcs)	113
OXIM7B	Metric Midget Combination Wrench, 12-Point, 7 mm	111	XOM605	Metric Deep Offset Box Wrench Set (5 pcs)	114

Metric Sets D

9400GMBO Complete Metric Set D.

- Includes: 9300 MO, 9000 M40 plus KRL751PBO top chest, KRL756CPBO roll cab and KRA276D wall cabinet

9400GMO Metric Set D.

- More than 800 pcs: includes all tools in 9300 MO and 9000 M40
- Does not include tool storage

9000GM40 Add-on Group D.

- More than 175 pcs in the add-on set to 9300 MO Set C
- Tools only



KRL751PBO



KRL765CPBO



KRA276D



9000GM40

9000GM40 Add-on Group

Stock No.	Description	Page	Stock No.	Description	Page
106ETMAMY	1/4" Dr. Metric Hex Driver Set (6 pcs)	60	MTMM6	1/4" Dr. Metric Impact Socket, 6-Point, 6 mm	23
10SSD	Offset Flat Tip Screwdriver	147	IMTMM7	1/4" Dr. Metric Impact Socket, 6-Point, 7 mm	23
111TMUSMA	1/4" Dr. Metric U-Socket Set (11 pcs)	24	IMTMM8	1/4" Dr. Metric Impact Socket, 6-Point, 8 mm	23
120SSDP	Phillips® Offset Screwdriver, #1-#2	147	IMTMM9	1/4" Dr. Metric Impact Socket, 6-Point, 9 mm	23
2050	Prybar, 20"	163	LP5WR	Curved Jaw Locking Plier, 6"	169
20SSD	Offset Flat Tip Screwdriver	147	LP6LN	Long Nose Pliers, 6"	169
307IPLMY	1/2" Dr. Impact Swivel Sockets, 6-Point (7 pcs)	46	NDDM1070	Metric Nut Driver Set, 6-Point (7 pcs)	153
AWP65	Adjustable Joint Tongue & Groove Pliers	168	OEXM250B	Metric Combination Wrench, 12-Point, 25 mm	108
BP12B	Ball Peen Hammer, 12 oz	189	OEXM260B	Metric Combination Wrench, 12-Point, 26 mm	108
CHN480	Adjustable Joint Pliers, 20"	168	OEXM290B	Metric Combination Wrench, 12-Point, 29 mm	108
CJ2003A	Rear Axle Puller Set	221	OEXM320B	Metric Combination Wrench, 12-Point, 32 mm	108
CJ2004	Interchangeable Puller Set	204	PDR3000A	Heavy Duty Air Drill, 3/8"	294
CJ2005	Puller Accessory Set	221	PPR708BK	Roll Pin Punch Set (8 pcs)	185
CM6551	Miniature Screwdriver Set	147	RBM604C	Metric Ratcheting Box Wrench Set, 12-Point (4 pcs)	115
DBTR129	Drill Bit Set 1/16"-1/4" (29 pcs)	310	RXSM605B	Metric Flare Nut/Open End Wrench Set, 6-Point (5 pcs)	120
E703BCG	Elec. Needle Nose Pliers, Serrated Jaws	172	SFSM6	1/4" Dr. Metric Deep Socket, 6-Point, 6 mm	27
E704BCG	Elec. Needle Nose Pliers, 60 Bent Tip, Nonserrated	172	SFSM7	1/4" Dr. Metric Deep Socket, 6-Point, 7 mm	27
E710BCG	Taper Head Electronic Cutters, True Flush Cut	172	SGFMN106	Mixed File Set (6 pcs)	183
FADH6A	Adjustable Wrench, Cushion Handle, 6"	133	SHDTX3150	T15 Torx Screwdriver, Orange	142
FAR25A	1/4" Dr. Air Ratchet	292	SHDTX3200	T20 Torx Screwdriver, Orange	147
FSM61	3/8" Dr. Metric Socket, 6-Point, 6 mm	26	SPBS80	Prybar with Handle, Orange, 8"	161
FSM71	3/8" Dr. Metric Socket, 6-Point, 7 mm	26	SDDMR8A0	Ratcheting Magnetic Screwdriver, Orange	150
FSUM11A	3/8" Dr. Shallow Universal Socket, 6-Point, 11 mm	35	STMM4.5	1/4" Dr. Metric Deep Socket, 6-Point, 4.5 mm	19
FSUM16A	3/8" Dr. Shallow Universal Socket, 6-Point, 16 mm	35	SX15	1/2" Dr. Extension, 15"	77
FSUM18A	3/8" Dr. Shallow Universal Socket, 6-Point, 18 mm	35	TDM99117B	Metric Tap and Die Set (25 pcs)	209
FSUM19A	3/8" Dr. Shallow Universal Socket, 6-Point, 19 mm	35	TMM4.5	1/4" Dr. Metric Socket, 6-Point, 4.5 mm	18
FX18	3/8" Dr. Extension, 18"	74	TSM26	1/2" Dr. Metric Deep Socket, 6-Point, 26 mm	38
FX36	3/8" Dr. Extension, 36"	74	TSM27	1/2" Dr. Metric Deep Socket, 6-Point, 27 mm	38
HBFE48	Dead Blow Hammer, 48 oz.	187	TSM30	1/2" Dr. Metric Deep Socket, 6-Point, 30 mm	38
IMTMM10	1/4" Dr. Metric Impact Socket, 6-Point, 10 mm	23	TSM32	1/2" Dr. Metric Deep Socket, 6-Point, 32 mm	38
IMTMM11	1/4" Dr. Metric Impact Socket, 6-Point, 11 mm	23	TWM10A	1/2" Dr. Metric Socket, 6-Point, 10 mm	37
IMTMM12	1/4" Dr. Metric Impact Socket, 6-Point, 12 mm	23	TWM11A	1/2" Dr. Metric Socket, 6-Point, 11 mm	37
IMTMM13	1/4" Dr. Metric Impact Socket, 6-Point, 13 mm	23	TWM28	1/2" Dr. Metric Socket, 6-Point, 28 mm	37
IMTMM14	1/4" Dr. Metric Impact Socket, 6-Point, 14 mm	23	TWM29	1/2" Dr. Metric Socket, 6-Point, 29 mm	37
IMTMM15	1/4" Dr. Metric Impact Socket, 6-Point, 15 mm	23	TWM31	1/2" Dr. Metric Socket, 6-Point, 31 mm	37
IMTMM5	1/4" Dr. Metric Impact Socket, 6-Point, 5 mm	23	TWM32	1/2" Dr. Metric Socket, 6-Point, 32 mm	37
IMTMM5.5	1/4" Dr. Metric Impact Socket, 6-Point, 5.5 mm	23	VE200A	Puller Control Board	221



WARNING



• Read safety precautions on pages W1 to W4

Important Words

About Safety

for Users and Bystanders

Following these basic safety rules is a good start toward protecting yourself and others in the vicinity from injury while using tools.

Wear safety goggles

Use the right tool

Use the tool properly

Maintain the tool regularly

Keep tools away from children

Do not use tools on live electrical circuits unless specifically designed for such use

Read and follow instructions



THIS SYMBOL INDICATES PROHIBITED ACTION



DO NOT OVER-TORQUE
NO PIPES OR LEVER
EXTENSIONS



NO HAMMERING



NO PRYING



DO NOT STRIKE HARD
OBJECTS



NO IMPACT/POWER DRIVE



DO NOT STEP IN OR ON
DRAWERS



DO NOT OPEN MULTIPLE
DRAWERS



DO NOT PULL TO MOVE



KEEP CHILDREN AWAY



THIS SYMBOL INDICATES MANDATORY ACTION



MANDATORY EAR PROTECTION



MANDATORY FACE SHIELD



MANDATORY MASK



MANDATORY RESPIRATOR



MANDATORY PROTECTIVE CLOTHING



MANDATORY PROTECTIVE GLOVES



MANDATORY EYE PROTECTION



MUST READ INSTRUCTIONS BEFORE USE



THIS SYMBOL INDICATES A HAZARD ALERT
RED BACKGROUND DANGER
ORANGE BACKGROUND WARNING
YELLOW BACKGROUND CAUTION



VIBRATION HAZARD



RISK OF EXPLOSION



OVERHEAD/OVERLOAD HAZARD



RISK OF ELECTRIC SHOCK



RISK OF FIRE



RISK OF ENTANGLEMENT

Safety messages in this catalog use the guidelines of the American National Standard ANSI Z535.4 for Product Safety Signs and Labels and ANSI Z535.3 Criteria for Safety Symbols. Messages associated with specific products use a triangular hazard alert symbol, signal word (CAUTION, WARNING, DANGER) and how to avoid the hazard. Each message refers to pages (W1 to W4) which provides additional safety symbols and three part messages advising of:

- The hazard

How to avoid the hazard

The probable consequence of not avoiding the hazard

PLEASE READ AND FOLLOW these messages to avoid injury to yourself and bystanders.

Adaptors



WARNING

- Adaptors can break from over-torque
- Do not use with impact drivers.**
- Do not exceed the torque stamped on adaptor.**
- Broken adaptor can cause injury.*



AVR Battery Testers



WARNING

- Batteries produce explosive gases and can explode and ignite
- Wear safety goggles. (User and bystanders)**
- Keep flames and sparks away from batteries.**
- Battery explosion and Ignited gases can cause injury.*



Battery Chargers, Testers (AVR), Portable Booster Packs



WARNING

- Batteries produce explosive gases and can explode
- Wear safety shield. (User and bystanders)**
- Do not overcharge battery.**
- Keep flames and sparks away from batteries.**
- Sparks occur when connecting or disconnecting leads while charger is ON
- Charger must be OFF when connecting or disconnecting leads.**
- Do not allow leads on Booster Packs to contact each other.**
- Battery explosion or ignited gases can cause injury.*



Blow Guns



WARNING

- Blow guns create flying particles, noise and pressure
- Wear safety shield. (User and bystanders)**
- Do not direct air at yourself or bystanders.**
- Wear hearing protection. (User and bystanders)**
- Keep out of reach of children.**
- Vented:*
- Do not use if air supply is above 135 psig.**
- Do not obstruct vents.**
- Non-Vented:*
- Do not use if air supply is above 30 psig.**
- Flying particles, noise and high velocity air can cause injury.*



Brake Tools



WARNING

- Brake cylinder hones can fly apart if used outside cylinder
- Wear safety goggles. (User and bystanders)**
- Operate only while hone is within cylinder.**
- Flying parts can cause injury.*



Butane Mini-Torches



WARNING

- Butane can explode
- Store at a temperature below 120 F.**
- Dispose of butane in accordance with regulations.**
- Explosion or flames can cause injury.*



Compressors



WARNING

- Air from compressors may contain oil mist and other harmful materials for breathing
- Do not use air from this compressor as a breathing supply.**
- Oil and other impurities in breathing supply air can cause injury.*
- Compressor systems contain air under pressure which can create a high pressure stream or ruptured vessel
- Wear safety goggles. (User and bystanders)**
- Relieve pressure before servicing.**
- Do not modify/repair/rework pressure vessel or change safety relief pressure setting.**
- A pressurized air stream or rupturing pressure vessel can cause injury.*
- Moving components inside
- Do not use without all guards in place.**
- Moving components can cause injury.*
- High voltage will create an electrical shock
- Disconnect all power before servicing.**
- High voltage can cause injury.*



Cordless Tools



WARNING

- Battery packs present a risk of fire, explosion and electric shock
- Charge battery pack only with charger provided.**
- Do not store battery packs at temperatures above 120° F (49° C).**
- Do not discard used batteries; return them to a Snap-on repair center for recycling.**
- Follow all safety messages in User's manual.**
- Fire or explosion or electric shock can cause injury.*



Diagnostic Equipment



WARNING

- Use of diagnostic equipment on rotating engine poses risk of flying particles and entanglement
- Wear safety goggles.**
- Use caution in routing cables.**
- Flying particles can cause injury.*
- Poorly routed cables and test leads can cause entanglement and injury.*
- Use of diagnostic equipment can cause electrical shock, fire and explosion.
- Use caution and proper procedures when connecting and disconnecting leads.**
- Diagnostic equipment must be located 18" or more above floor level.**
- Avoid sparks and other sources of ignition.**
- Electrical shock, flames and explosion can cause serious injury.*
- Improper use can cause hazardous conditions
- Read and follow all safety precautions accompanying the product**
- Unexpected electrical, thermal or mechanical occurrences can cause injury.*



Fuel System Tools



WARNING

- Flammable liquid and fumes can ignite
- Wear safety shield. (User and bystanders)**
- Use only in well ventilated areas**
- Flames or explosion can cause injury.*



Geared Head Torque Multipliers



WARNING

- Use of gear head torque multipliers for torque control may result in inaccurate torque application
- For accurate control of torque use an Electrotork®, a Torqometer® or other measuring device located directly on the fastener.**
- Limited accuracy of the torque ratio of a geared head torque multiplier may cause improper preload of the fastener if it is used for torque control.*

Grinders, Grinding Wheels, Power Tool Accessories

(drill bits, wire brushes, grinding burrs, abrasive wheels, grinding wheels, valve grinders, valve grinding wheels)



WARNING

- Grinding causes flying particles
- Power tool accessories can break
- Wear safety goggles. (User and bystanders)**
- Do not operate without eyeshields, guards and holders in place.**
- Do not use power tool accessories at speeds faster than their maximum rated RPM.**
- Flying particles and broken tools can cause injury.*
- Wire bristles can break and fly off
- Wear safety goggles. (User and bystanders)**
- Flying particles can cause injury.*
- Force on the side of grinding wheels or discs can break them
- Do not grind on the side of a grinding wheel or disc.**
- Broken grinding wheel or disc can cause injury.*



Hammers

(See Striking and Struck Tools)

Hand Tools

Handles



WARNING

- Handles can break if overloaded
- Do not use cheater bars® on handles.**
- Pull, do not push, on handles.**
- Broken handle or a fall can cause injury.*



Sockets, Accessories



WARNING

- Sockets and accessories can break if used with an impact wrench
- Do not use chrome or industrial finish hand tools with impact drivers.**
- Broken sockets or accessories can cause injury.*

Impact Wrenches



WARNING

- Impact wrenches can cause breakage of sockets or accessories
- Wear safety goggles. (User and bystanders)**
- Do not use hand sockets with impact wrenches.**
- Flying objects can cause injury.*



Knives



WARNING

- Blades are sharp and can cut
 - Blades can break causing flying objects
- Wear safety goggles. (User and bystanders)**
Do not pry or bend blade.
Keep away from children.
Sharp edges and flying objects can cause injury.



Leak Detectors



WARNING

- Gases, fluids or accumulated fumes may explode or ignite
- Do not expose fluids or fumes to flames, sparks or other sources of ignition.**
Wear safety goggles or safety shield.
Use only in well ventilated areas.
Explosion or flames can cause injury.
Fumes can cause breathing difficulty.



Lift Equipment

Jacks, Jack Stands



WARNING

- Vehicles supported by jacks or jack stands may fall if used improperly



Do not exceed rated capacity of jack or jack stand.



Do not work on vehicle supported by jack, use jack stands; use jack stands in pairs.



Use jack and jack stands only on hard level surface

Lift and support vehicle only on its designated lift points.

Failure of jack or jack stand or falling of vehicle can cause serious injury or death.

Lifts, Hoists



WARNING

- Vehicles supported on lifts or hoists may fall if lifts are improperly installed, used or maintained



Do not exceed rated capacity of the lift.



Lift must support vehicle only on its designated lift points.



Lifts must be installed by qualified installer.

Lifts must be inspected and maintained in accordance with User's Manual.

Follow all instructions for proper use and all safety messages in User's Manual.

Failure of the lift or vehicle falling off of lift due to use of improper lift points can cause serious injury or death.

Lighting



WARNING

- Electrical shock can result from absence of grounding prong



Do not remove or by-pass the grounding prong in any electrical plug.

Disconnect power before servicing.

Electrical shock can cause injury.

Pliers/ Cutters



WARNING

- Broken tips or cut material can fly
- Wear safety goggles. (User and bystanders)**
Flying material can cause injury.



Power Tools

(impact wrenches, ratchets, hammers, sanders, grinders)



WARNING

- Power tools can cause flying particles
- Wear safety goggles. (User and bystanders)**
Flying particles can cause injury.



- Power tools generate noise



Wear hearing protection. (User and bystanders)



Prolonged exposure to noise can cause hearing loss.

- Power tools vibrate

Avoid prolonged exposure to vibration.

Prolonged exposure to vibration can cause injury.

- Improper use of power tools and accessories can cause broken tools

Do not use without all guards in place.

Use accessories rated at tool RPM or higher. Read and follow instructions before using power tools.

Broken tools can cause injury.

Pressure Equipment and Pressure Gauges

(all equipment using pressurized air or hydraulic fluid such as tanks, spray guns and blow guns)



WARNING

- Pressurized equipment, systems or tanks can break or leak



Do not exceed the maximum pressure rating of equipment. Wear safety goggles or shield and protective clothing appropriate to the fluid.



Pressurized fluid striking the body can cause personal injury. Flammable fluids such as gasoline, propane, etc. can ignite or explode and cause injury.



- Fluids can leak or escape



Use only in well ventilated areas.

Breathing vapors or fluids from leaks can cause illness or injury.



- Pressurized air or fluid stream can propel dust or particles



Do not direct air or fluid stream at your body or at others.



Flying particles, air or fluid entering body can cause injury.

- Improper use or maintenance of pressurized equipment can cause leaks or rupture

Read and follow instructions.

Leaking of pressurized equipment can cause injury.

Prybars



WARNING

- Prying can cause flying chips. Chipped or cracked prybars can cause flying chips



Wear safety goggles. (User and bystanders)



Do not use pipe or lever extension.



Do not use a prybar if chipped or cracked.

Do not use a prybar as a punch or hammer.

Flying chips can cause injury.

Pullers, Presses



WARNING

- Puller or press parts under stress can break



Wear safety goggles. (User and bystanders)

Use the proper type and size puller or press.

Screen the puller or press operation.

Broken parts can cause injury.

Punches / Chisels (See Striking and Struck Tools)

Ratchets



WARNING

- Ratchet mechanism may slip or break if dirty

- Mismatched or partially worn parts can cause ratchet to slip or break

Frequently inspect, clean and lubricate all non-sealed ratchet mechanisms with light oil.

Do not immerse sealed ratchet in fluids.

Do not replace worn parts individually, use entire contents of the service kit.

Ratchets that slip or break can cause injury.

Sanders



WARNING

- Sanding disc or accessories can break if used above maximum rated RPM



Wear safety shield. (User and bystanders)

Do not use sanding discs or accessories above their maximum rated RPM.



Do not use grinding wheels on sanders.

Broken sanding disc or accessories can cause injury.



Wear hearing protection. (User and bystanders)



- Some dust created by sanding, grinding and drilling activities contains chemicals known to cause cancer, birth defects and other reproductive harm

Wear dust mask or respirator.

Scrapers



WARNING

- Scrapers and putty knives can break if used for prying or chiseling



Wear safety goggles. (User and bystanders)



Do not use a scraper or putty knife as a prybar or chisel.

Broken tools can cause injury.

Screwdrivers



WARNING

- Screwdrivers can break if used as prybar, chisel or punch



Wear safety goggles. (User and bystanders)

Do not use a screwdriver as a prybar, chisel or punch.



Broken screwdriver can cause injury.

- Plastic screwdriver handles do not provide electrical insulation



Do not use on or near live electrical circuits.

Electrical shock can cause injury.

Socket Usage

Select the proper type of socket for the application.

- **Hand Sockets** - All chrome plated sockets and black finished sockets identified as hand sockets are for hand use only

- **Power Sockets** - Sockets designed and intended for use with power nut runners; do not use with impact drivers

- **Impact Sockets** - Sockets designed for durability when used with impact drivers; use only impact sockets with impact drivers

Sockets, Power



WARNING

- Power sockets or accessories can break if used on impact drivers



Wear safety goggles. (Users and bystanders)
Do not use power sockets or accessories with impact drivers.



Broken tools can cause injury.

- Flexible sockets and swivel joint tools rotate under power during use

Wear safety goggles. (Users and bystanders)
Do not hold flexible sockets and swivel joint tools during use.
Rotating power tools can cause injury.

Striking and Struck Tools, Punches/Chisels



WARNING

- Striking and struck tools can break or chip
- Chipped or mushroomed punch and chisel ends or metal weakened by improper grinding can fragment
- Oversized hammer can chip the punch or chisel



Wear safety goggles. (Users and bystanders)

Do not use punch or chisel having mushroomed ends; dress edges or mushroomed ends to original shape with a hand file.

Do not misuse a chisel as a punch.
Hammer head diameter should be approximately 3/8" larger than head of punch or chisel.

Flying objects can cause injury.

- Steel punches and chisels can cause sparks during use



Do not use near flammable substance.
Flammable substances can ignite causing injury.

Hammers



WARNING

- Hammers can cause flying chips. Chipped, mushroomed or cracked hammers can cause flying chips



- lancing blows can cause flying chips
- Striking hard surface can cause flying chips
- Body hammers can chip or break if struck against hard surfaces



Wear safety goggles. (Users and bystanders)
Do not use chipped, mushroomed or cracked hammers.

Strike squarely and avoid glancing blows.
Do not strike other hammers or similar hard surfaces.

Use body hammers only for striking automotive type sheet metal; do not strike hard surfaces.

Flying chips can cause injury.

- Steel hammers can cause sparks during use
- Do not use near flammable substance.**



Flammable substances can ignite causing injury.

- COMPOTHANE® or urethane hammers can rupture or ignite if exposed to liquid oxygen
- Do not use COMPOTHANE or urethane hammers near liquid oxygen.**

Ruptured and/or ignited COMPOTHANE or urethane can cause injury.

Tire Changers



WARNING

- Tires can explode



Wear safety goggles.

Do not over-pressurize tire.



Read and follow all safety precautions in Users Manual

Exploding tire can cause serious injury.



Tool Storage Units



WARNING

- Storage units can tip or strike you
- Do not open more than one loaded drawer at a time.**



Keep children away.



Close lid and lock drawers and doors before moving.



Apply brakes on locking casters when not moving unit.



Do not step in or on drawers.

Secure units together with fasteners.

Read and follow instruction manual.



Tipping of storage unit or unit striking you can cause injury.



- Units edges can cut or pinch

Do not pull; push to move.

Wear gloves when lifting by edges.

Keep feet and fingers clear of edges when stacking, hanging or moving units.



Unit edges can cause injury.

Torque Testers



WARNING

- Calibration weights can cause tester and its base to tip



Wear safety goggles. (Users and bystanders)

Counterbalance or anchor mounting base.

Tipping base can cause injury.

Torque Wrenches



WARNING

- Overtorquing can cause breakage
- Wrench can break while breaking fasteners loose
- Force against flex stops on flex head torque wrenches can cause head breakage
- An out of calibration torque wrench can cause part or tool breakage



Wear safety goggles.



(Users and bystanders)

Do not exceed rated torque.

Do not use a torque wrench to break fasteners loose.

Do not force head of flex head torque wrenches against stops.

Periodic recalibration is necessary to maintain accuracy.

Broken tools can cause injury.

Unibody and Frame Straightening Equipment



WARNING

- Improper usage can damage or break equipment



Read and follow all instructions in Users Manual.



Broken parts of the frame straightener or vehicle can cause personal injury.

- Risk of entanglement



Do not stand on or near ramps or rack when raising or lowering the rack.

Moving parts can cause injury.

- Parts under high stress can break

Do not exceed maximum capacity of lowest rated component of pull system.

Broken parts can cause injury.

Welders, Cutters



Electric, Plasma

DANGER

- Electric welding or plasma cutting causes ultra violet rays, localized magnetic fields, sparks, weld spatter and hazardous vapors and may cause electrical shock



- Bystanders will be exposed

Wear welding helmet with appropriate shade lens while welding or cutting.
Wear gloves and protective clothing.
Use only in well ventilated area.



Do not allow bystanders in area while welding or cutting.

Do not operate this equipment if you have an implanted electromechanical device.
Never coil electrode/torch lead around your body.



Read and follow all safety precautions in instructions.

Ultra violet rays will burn eyes, magnetic field may affect operation of medical devices.
Weld spatter, electrical shock or sparks can cause burns or other injuries.

Gas, Welding and Plasma Cutting



WARNING

- Welding and cutting produce heat, weld spatter and hazardous vapors

Wear face shield and protective clothing.
Use only in well ventilated area.

Do not allow bystanders in immediate area.
Read and follow all safety precautions in instructions.

Byproducts of welding or cutting can cause burns or other bodily injuries.

Wheel Alignment Tools



WARNING

- Suspension springs can slip out of engagement with spring compressors



Follow instruction and assure that spring is properly engaged with the compressor.



Wear safety goggles. (User and bystander)

- WA92 can break or disengage from spring if torqued over 30 lb ft

Do not torque WA92 over 30 lb ft.

Broken compressor or disengaged spring can cause injury.

Wrenches



WARNING

- Excess force can cause crowfoot or flare nut wrench slippage



Do not over torque, no pipes or cheater bars.



Use only moderate force on crowfoot and flare nut wrenches.

Broken or slipping wrenches can cause injury.

- Slimline wrenches can break if overloaded
- Wear safety goggles.**

(Users and bystanders)

Broken wrench jaw can cause injury.

- User can slip or fall if wrench breaks or fastener breaks loose

Pull, do not push, on wrench handle.

Injury can occur if user loses balance

A

- Abrasive Blast Cabinet 592-593
- Abrasive Wheels 317-318
- Abrasives 594
- Accelerator Pedal Jack 501
- Accessories
 - Air Hammer 296, 321
 - Air Ratchet 308
 - Air Saw 320
 - Drill 309-316
 - EPIQ 339
 - ETHOS® 413
 - Grinder 317-318
 - Heritage 370
 - Impact Wrench 291, 308
 - Leak Detector 441
 - MicroVAT™/D-TAC™ 463
 - MODIS™ 414-417
 - Sander 316
 - Scan Tool 415
 - Scope and Meter 416-417
 - Screwdriver 151-159
 - SOLUS PRO™ 412, 415
 - Vanatge PRO™ 413, 416, 419
 - VERUS® 410, 414-415, 417, 419
 - Wheel Balancer 484-485
- Accessory Box 398
- ACR® Bits 152, 154, 156, 158
- Adaptor Sets
 - Cooling System 479
 - Extension 81, 83
 - Fuel Injection 453
- Adaptor
 - #5 Spline Drive to Square 88
 - 1 1/2" Drive 88
 - 1" Drive 87-88
 - 1/2" Drive 13, 85-86, 104, 179
 - 1/4" Drive 13, 81, 83, 104
 - 3/4" Drive 13, 87
 - 3/8" Drive 13, 81, 83-85, 104, 179
 - A/C 475
 - Air Line 324
 - Amp 432
 - Arbor 315, 317
 - Backprobe 416
 - Banana Plug 434
 - Battery 435
 - Bearing, C/J Series 221
 - Bed of Nails 435
 - Cable 413
 - Cap 478
 - Compression 238, 240, 450-451
 - Data Cable 415
 - Diesel 238-240, 446
 - Diesel Compression 451
 - ETHOS® 413
 - Extension 77, 79, 85
 - Hand Wheel 229
 - Hex to Square 83, 85
 - Hydraulic Gauge Mounting 229
 - Ignition 417
 - Internal Square 83, 179
 - Intrusive Circuit Testing Adaptor 435
 - Joint Rate Simulator 264
 - Locking 78, 83
 - Magnetic 81, 84
 - Multi-Ignition 417
 - Neck 441
 - Non-Conductive 179
 - OBD-I 415
 - Oil Injector 475
 - Pneumatic 476
 - Power 83, 85-86
 - Pressure 432
 - Puller 220-221, 229, 233-234
 - Radiator 476, 478
 - RPM 432
 - Set 81, 83
 - Split Lead 416
 - Square Drive 81, 88
 - Temperature 433
 - Torque 240, 242, 266
 - Trailer 439
 - Transducer 416
 - Vacuum 440
 - Voltage 432
 - Wheel Hub Removal 505
 - Wrench, Ratcheting 104
- Adhesive Spray 392
- Adjustable
 - Joint Pliers 168, 176
 - Pin Spanner 135
 - Pliers 168, 176
 - Spanner Wrenches 135
 - Tap Socket 211
 - Torque Screwdriver 254
 - Torque Wrenches 249-250
 - Wrench 125, 131, 133-135
- Advance Timing Lights 446
- A-Frame 228
- Aimers, Headlamp 587
- Air Conditioning
 - Adaptor 475
 - Connectors 475
 - Hoses (R134a/R12) 473
 - Leak Detectors 470-471
 - Manifold Gauges 472
 - Pulley Pullers 219, 223
 - Recycling/Recharging System (R134a) 469
 - Replacement Hose 473
 - Sales/Training Materials 469
 - Service Tools 469-475
 - Valve 475
- Air Movers 606
- Air
 - Accessories 308-324
 - Auxiliary Handle 309
 - Blow Guns 322-323
 - Brushing 590
 - Chisels/Punches 321
 - Chuck 243, 490
 - Closed Chuck 490
 - Compressor 590, 599
 - Control Units 600
 - Crud Thug® 306
 - Cut Off Tool 299
 - Die Grinder 285, 297-298
 - Drill 284, 294-295
 - Dual Punch Tool 285, 300
 - Filter 410, 589
 - Finishing Tool 28, 302-306
 - Grinder 285, 299
 - Hammer 284, 296
 - Hammer Bits 321
 - Hose 244, 323
 - Impact Wrench 284, 286-291
 - Impact Wrench Accessories 308
 - Line Coupler/Adaptor 324
 - Lubricators, Air Line 600
 - Micro Tools 285, 297, 305
 - Motor (Torque Multiplier) 258
 - Motor Oil 324
 - Nibbler 285, 300
 - Open Chuck 490
 - Polishers 285, 305
 - Pressure Gauge 489-490
 - Processing Equipment 599-600
 - Punch Tool 300
 - Ratchet 284, 292-293
 - Ratchet Accessories 308
 - Reciprocating Saw 285, 300
 - Sander 285, 301-305
 - Sander Accessories 316
 - Saw 300
 - Saw Accessories 320
 - Shears 285, 300
 - Solvent Gun 604
 - Swivel Connector 323
 - Tool Accessories 308-324
 - Tool Boots 286-292, 308
 - Vacuum 606
 - Valve 324
 - Valves/Regulators 589
- Aircraft Drill Bits 314
- Alignment
 - Bar (Body) 577
 - Headlamp 587
 - Wheel 500-503
- Allen-Type Wrenches 130-132
- Alligator Clip 416
- Alternator
 - Pulley Installer/Puller 219, 223, 546
- Aluminum
 - Screw Starter 152
 - Wrench 119
- Amp
 - Adaptor 432
 - Probe 432
- Analyzer
 - Carbon Monoxide 441
 - Gas 418
 - Gas, Flexible 418
 - Gas, Handheld 418
 - Timing Light 447
- Angle
 - Air Drill 295
 - Drill Kit 314
 - Gauge, Torque 253
 - Grinder, Air 303
 - Head Wrench 119
 - Polisher 305
- Antenna
 - Socket 587
 - Wrench 587
- Anti-Camout Bits 152-157
- Anti-Fatigue Mats 398
- Anti-Freeze Testers 477
- Anti-Seize Compound 608
- Apprentice Set 618
- Arbor Adaptor, Hole Saw 315
- Arbor Press 598
- Arm Protectors 521, 607
- Auto Care
 - Buffing 608
 - Cleaner 608
 - Polisher 608

INDEX

Brake (con t)	
Truck	241, 572-575
Brass Hammers	188
Breaker Bar	
1" Drive	15
1/2" Drive.....	16
1/4" Drive.....	16
3/4" Drive.....	16
3/8" Drive.....	16
Non-Conductive.....	179
British Standard Wrenches	112
Bronze Punches	185
Brush	
Air.....	590
Battery.....	467
Diesel Injector.....	236, 238, 240
Distributor Cleaning.....	458
Electrical.....	439
Fingernail.....	609
Injector.....	236, 238, 240
Paint Gun Cleaning.....	591
Parts Cleaning.....	604
Taillight Socket.....	439
Battery Terminal.....	463
Valve Guide.....	551
Wire.....	317, 609
Budd Wheel Tools	498
Buffing Pads	608
Bumper Cover Paint Stand	586
Burr, Grinding	319
Bushing	
Cutter.....	186
Driver Sets.....	555-557
Insert/Remover Set.....	555
Puller.....	504
Soldering.....	180-183
Tools.....	321, 555-557
Butane Soldering Pencil	182
Butcher Block Tops	381

C

Cabinet	
End.....	348-349, 361, 368
Overhead.....	339
Prybar.....	163, 395
Roll.....	330-336, 341-345,
	357-359, 363-365, 368
Tool.....	330-369
Wall.....	379
Weight.....	485
Cable	
Adaptor.....	413
Booster.....	466
Clamp Pliers/Puller.....	466
Cutter.....	166, 174, 204
Data.....	413, 415
Extension.....	416
Calibration Wheels/Arms	264
Calibrator (Torque)	263-264
Caliper	
Electronic Digital.....	562
U.S./Metric Dial Type.....	562
Cam Belt Wrenches	548
Camber Adjusting Tools	501
Camshaft	
Bearing Remover/Insert.....	551
Seal Installer.....	551
Cannon Plug Pliers	174
Cape Chisel	184

Car Starting Units	461-466
Carbon Monoxide Analyzer	441
Carburetor	
Adjusting Tools.....	455
Double D Tools.....	455
Idle Adjusting Tools.....	455
Screwdriver.....	455
Tools.....	455
Carts	369-376
Caster-Camber Tools	501
Casters	400
C-Clamps	524, 550, 596
Center Punches	184-185
Chain	
Wrench.....	135
Saw Files.....	196
Charger	
Battery.....	271-272, 281-282, 414, 461-463
Diagnostics.....	413
VERUS®.....	410
Charging Manifolds, A/C	472
Charging System Analyzers	463-464
Charging/Starting Tester	463-464
Chasers	
Circuit.....	439
Thread.....	206-207
Chests, Road	371
Chests, Tool	306-350
Chipping Hammer	523
Chisel	
and Punch Holder.....	184
and Punch Set.....	184-186
and Punch, Air Hammer.....	321
Demolition.....	162
Gauge.....	184
Soft Grip.....	186
Chuck	
Air.....	243
Air Drill.....	309
Air Hammer.....	296
Keyless.....	294
Quick Change.....	279
Tire.....	490
Circuit	
Chaser.....	439
Tester.....	434-439, 475
Testing Adaptor.....	434
Clamping Pliers	524
Classic	
End Cabinet.....	361
Locker.....	361
Reference Chart.....	357
Roll Cab.....	358-359
Top Chest.....	359
Workstation Riser.....	361
Claw Hammer	188
Cleaner	
Dirt/Stain.....	606
Engine.....	536
File.....	196
Hand.....	608
Parts.....	602-604
Pressure.....	605
Cleaning Solutions	604
Click-Type Torque Wrenches	249-250, 254-255
Clip, Alligator	416
Close Quarter Bars	163
Clutch	
Aligner Sets.....	509

Bit Socket	66
Driver	66
Hex Shank Bits	66
Remover	474
Service Tool Sets, A/C	470-475
Tools	509
Wrench	236, 239
Code Readers (OBD-II)	421
Coil Spring Compressor	503
Coil-On-Plug Probe	446
Collision Repair	525
Combination	
Lock.....	396
Pliers.....	165, 168, 176
Storage Units.....	330-368
Wrench.....	102-112, 120, 127
Combustible Gas Detectors	418
Come-Along Lifting Tool	514
Compact Meters	430-431
Comparator, Torque	265
Composite (Non-Conductive) Tools	178-180
Compound Leverage	
Pliers.....	166, 168
Snips.....	579
Compression	
Adaptor.....	238, 240
Gauge Set.....	450
Gauge, Diesel.....	238, 240, 451
Gauges, Motorcycle.....	243, 250
Glow Plug Adaptors.....	238, 451
Computer	
Memory Savers.....	447
Torque Testers.....	260, 262-265
Wheel Balancers and Accessories.....	484-485
Connector	
A/C.....	475
Extension.....	72, 75
Pliers.....	174
Separator.....	448
Swivel.....	323
Continuity Tester	436-439
Coolant	
System Tools.....	476-482
Testers.....	477, 480
Corbin Hose Clamp Pliers	481
Cord Reel Lights	533
Cordless	
Batteries.....	277, 281
Chargers.....	277, 281
Drill.....	271-272, 274, 276
Driver.....	273
Electric Tools.....	282
Flashlight.....	272, 281
Flashlights/Spotlights.....	272, 281, 529
Grease Gun.....	271, 275, 308, 539
Impact Wrench.....	271-272, 276-277, 279-280
Kit.....	272, 277
Power Bit Kits.....	309
Ratchet.....	277
Reciprocating Saw.....	271-272, 275
Screwdriver.....	279-280, 282
Soldering.....	181
Tool Kits.....	272
Utility Lights.....	272, 281, 529
Work Light.....	277
Cotter Pin Puller	482, 499
Coupler	
Air Line.....	324
Quick Change.....	155, 238

Removal Tool.....	480
Spring Lock.....	475
Cover	
A/C Service Center.....	469
Battery Charger.....	461
Fender.....	558
Motorcycle Gas Tank.....	242, 558
Tool Storage Unit.....	371-375, 382
Crankshaft Pulley Tool.....	219, 223, 240
Creepers	
Accessories.....	560
Hanger.....	396, 560
Heavy Duty.....	559
Seat.....	560
Specialty.....	560
Standard.....	559
Crimping Tools.....	174-175
Cross Peen Hammers.....	189, 578
Crowfoot Wrench	
1/2" Drive.....	124
1/4" Drive.....	121
3/8" Drive.....	122-124
Holder.....	124
Ratcheting.....	124
Crud Removal Tool.....	306
Crud Thug®.....	306
Cummins Diesel Tools.....	58, 235, 240-241, 424, 451, 564
Cut Off	
Tool, Air.....	285, 299
Wheel.....	318
Cutter	
Air.....	285, 299-300
Bolt.....	177
Bushing.....	186, 321
Cable.....	166, 174, 204
Chain Pipe.....	198
Diagonal.....	166, 177
Electronic Service.....	172-173
Heavy Duty.....	166, 177
Hose Clamp.....	481-482
Miniature.....	176
Multi-Purpose.....	194
Pliers.....	166-167, 173, 176-177
PowerEdge™.....	166
Ratcheting.....	199
Set.....	165, 176-177
Sheet Metal.....	579
Special Purpose/Application.....	166
Tail Pipe.....	198
Tube.....	199
Wheel.....	199, 318
Wire.....	174-175, 245
CV (Constant Velocity) Tools.....	506
Cylinder	
Bore Gauges.....	553
Compression Gauges.....	450-451
Head Stands.....	552
Head Tools.....	545
Hones.....	553
Leakage Tester.....	452
Ridge Reamers.....	553
Service Tools.....	545, 553

D

DANA Axle Nut Sockets.....	496
Dead Blow Hammer.....	187-188, 554
De-Burring Tools.....	316

Decal, Tool Storage.....	387
Deep Well Thread Chasers.....	207
Degreasers.....	604
Dent Pullers	
Body.....	525-526, 577
Stud Gun.....	525-526
Detailing	
Buffing.....	608
Cleaner.....	608
Detector	
Gas.....	418
Leak.....	440-441
Detroit Diesel Tools.....	236-237, 241, 423
Diagnostic Equipment	
Data Bus Fault Finder.....	437
Diagnostic Accessories.....	410-418
ETHOS®.....	404, 413
MODIS™.....	414, 416-417, 419
Pro-Link iQ™.....	422
Pocket iQ™.....	422
OBD-II Scan Tools.....	421
Reference Guide.....	409
Software.....	423-424
SOLUS PRO™.....	405, 412-415, 419
Storage.....	419
Training/Service Banners.....	414
Vanatge PRO™.....	409, 413, 419
VERDICT™.....	407
VERUS®.....	408-410, 414-415, 417-419
Diagonal Cutter.....	166-168, 176-177
Dial Gauges, Diesel.....	235, 240
Dial Test Indicators.....	563
Diamond Point Chisels.....	184
Diamond Tip	
Bits.....	148, 157
Screwdrivers.....	142, 148
Die	
Grinders, Air.....	285, 296-297, 303
Setter Bars.....	163
Sets.....	208-209
Dies and Taps	
Self Aligning.....	210
Thread Restoring.....	205
Threading.....	208-210
Diesel	
Automotive.....	238-239
Compression Adaptors.....	238, 240, 451
Compression Gauge.....	451
Cummins.....	235, 239-240
Detroit.....	236-237, 241
Engine Detergent.....	536
Fuel Service.....	235
Pinion Nut Sockets.....	505
Pulse Adaptor.....	238, 446
Pump Adjusting Tools.....	239
Service Tools.....	235-241
Timing Gauge.....	235, 240
Timing Meter.....	446
Differential Side Bearing Puller.....	219
Differential Wrench.....	505
Digital	
Battery Charger.....	461
Battery System Tester.....	463
Borescope.....	429
Caliper.....	562
Drum Gauge.....	573
Gas Analyzer.....	418
Manifold Gauge.....	472
Meter.....	406-408, 432

Micrometer.....	561
Multimeter.....	244, 430-434
Rotor Gauge.....	573
Tachometer.....	235, 446
Thermometer.....	445, 474
Timing Light.....	447
Videoscope.....	429
Volt-Ohm Meter.....	406-409
Dirt/Stain Extractor.....	606
Disconnect Tools.....	454, 457, 475
Disc Brake	
Gauges.....	573
Lathe.....	570
Micrometers.....	572
Runout Gauges.....	573
Discs	
Grinding.....	318
Distributor Tools.....	458
Dividers	
Drawer.....	394
Measuring.....	562
Dollies	
Body.....	580
Hydraulic Wheel.....	512
Door Tools.....	583-585
Double End	
Bit Socket.....	314
Pick.....	160
Wrench.....	121
Double Hex	
Bit Socket.....	61
Driver.....	64
Double Square	
Bit.....	156
Socket.....	30, 40, 45, 52
Double D Tools, Carburetor.....	455
Dowel Pin Puller.....	217
Drag Link Sockets.....	31, 40, 46
Drain	
Plug Sockets.....	508
Tables, Transmission.....	541
Valve (regulator).....	600
Drawer	
Ball Bearing Slides.....	399
Detent Kits.....	399
Divider/Insert.....	394
EPIQ.....	338
Front.....	384-385
Guard.....	383-385
Heritage.....	367
Latches/Slides.....	389
Liner.....	392
Parts Trays.....	393-394
Storage.....	378
Drift Pin Punches.....	185
Drill	
Accessories.....	309-316
Air.....	284, 294-295
Angle.....	295, 314
Bit/Bit Set.....	208, 212, 214, 271, 310-315
Boot.....	308
Chuck.....	309
Cordless.....	271, 272, 273, 276
Guides.....	214
Hammer.....	274
Micro.....	295, 316
Pilot.....	315
Reversible.....	294-295
Right Angle.....	314

INDEX

Drill (con t)	
Spotweld.....	294
Step.....	315
Twist.....	316
Drive Shaft	
Magnetic Angle Locator.....	509
Universal Joint Tools.....	509
Drive Line Tools	505-509
Driver	
Adjusting Head.....	455
Bushing.....	508
Clutch.....	66
Cordless.....	271, 273
Double Hex.....	64
Flexible.....	82, 455
Handled.....	82, 84
Hex.....	61, 506
Impact.....	67
Limiting.....	254
Nut.....	153, 585
Ratcheting.....	82
Seal.....	507
Set.....	67, 556-557
Socket.....	64-66, 240, 243
Square Drive.....	82
Tray.....	388
Triple Square.....	65, 574
Drum Plug Socket	44, 538
D-TAC™ Battery System Diagnostic Tester	463
Dual	
Dual 80®.....	7-13, 28
Action Sander.....	302, 305
Face Hammer.....	187
Punch Tool, Air.....	300
Duck Bill Pliers	167, 176-177
Dust Cap Tool	499, 501
Dzus® Screwdriver	147
E	
Ear Protection	614
Electric Tools	
Engravers/Etchers.....	282
Polishers.....	282
Electronic Service	
Cutter.....	173
Pliers.....	172, 180, 183
Screwdriver.....	143-145, 178
Soldering.....	181-183
Tools.....	172, 178-183
Electronic	
Battery Tester.....	464
Stethoscopes.....	443-444
Terminal Tools.....	448-449
Torque Meter.....	262
Torque Tester.....	260, 262-265
Torque Wrenches.....	247-248, 259
Electrotork®	259
Emergency Brake Tools	576
End Cabinet	
Classic.....	361
Heritage.....	368
Masters.....	348-349
End Cutters	176
Engine	
Belt Tensioning.....	547
Brake Tools, Jacobs.....	240
Calibration and Setup Kit.....	541
Cleaners.....	536
Cylinder Head.....	545

Drain Plugs.....	544
Hanger.....	514
Harmonic Balancer.....	549
Lift Plate.....	514
Oil Pressure/Oil Pump.....	544
Power Steering/Alternator/Water Pump.....	546
Service Tools.....	542-549
Sling.....	514
Socket.....	240
Specialty Tools.....	548
Thermal Vacuum Switch.....	549
Timing.....	542-543
Turning Tool.....	239
Engraver.....	282
Engraving Pen/Tip.....	324
EPIQ	
Accessories.....	339
Drawer Sections.....	338
Locker.....	339
Overhead Cabinet.....	339
PowerBank Unit.....	331
Reference Chart.....	331
Roll Cab.....	331-336
Top Chest.....	337
Workcenter.....	339
Etching/Engraving Tools	282, 324
ETHOS®	404, 409, 413
EVAP	440
Exhaust	
Pipe Cutters.....	198
Probe.....	442
Tailpipe Stretcher.....	199
Tools.....	198-199, 321
Expander	199
Extension	
1 1/2" Drive.....	81
1" Drive.....	80
1/2" Drive.....	77-79, 85, 179
1/4" Drive.....	72-73
3/4" Drive.....	80
3/8" Drive.....	75-77, 179
Adaptor.....	77-79, 83, 85
Connectors.....	72, 75
Cords and Reels.....	534
Data Cable.....	415
Flexible.....	73, 75, 202
Impact.....	74, 77, 79-81
Knurled.....	72, 74-76, 78
Locking.....	72, 74-79
Non-Conductive.....	179
Power.....	77, 79
Probe.....	434
Quick Release.....	76
Repair Kit.....	72, 76
Set.....	72-79
Sockets.....	31, 202
Swivel Ball.....	31
Variable Length.....	73, 74
Wobble/Wobble PLUS.....	73, 75, 78
Extra -Long Screwdrivers	139, 141
Extractor	
Fastener.....	213
Pipe Plug.....	215
Porcelain.....	201
Repair Kit, Porcelain.....	201
Set.....	201, 212-215
Spark Plug.....	201
Tools.....	212-215

Eye Protection	
Goggles/Glasses.....	523, 616
Shield.....	614
F	
Face Protection	523
Fan	
Clutch Wrench.....	236, 239, 480-481
Shop.....	606
Wrench.....	238-239
Feeler Gauges	
Bent and Step Blades.....	237, 564
Blades and Holder.....	565
Diesel.....	564
General Use.....	564
Ignition.....	564
Specialty.....	565
Fender Covers	558
File	
Ergonomic.....	195
Flexible Curved Tooth.....	581
General.....	195
Handles.....	195, 581
Nib.....	581
Spark Plug.....	202
Thread Restorer.....	206
Fillers	
Battery.....	467
Oil.....	538
Filter	
A/C.....	469-470
Air.....	410, 589
Air Processing.....	600
Blast System.....	594
Dryer.....	470
Fuel.....	456
Gas Analyzer.....	418
MODIS™.....	414
Parts Washer.....	602
Respirator.....	616
Socket.....	238
Vacuum.....	606
VERUS®.....	410
Fin Straightener/Cleaner	475
Firing Indicator, Spark Plug	202
Flammables, Storage Cabinet	591
Flank Drive®/Flank Drive® Plus	
Nut Driver.....	180
Socket.....	18-19, 23-27, 30-32, 35-54, 69-70, 202-203
Torque Adaptor.....	266
Wrench.....	102-103, 107-118, 120-122, 124-126, 133, 136-137, 459, 538, 575
Flap Wheels and Discs	317
Flare Nut	
Socket.....	30
Torque Wrench.....	256
Wrench.....	120-122, 124, 240
Flaring Tools, Tubing	199
Flashlight Holders	531
Flashlight	
Cordless.....	272, 281
Holder.....	531
Non-Rechargeable.....	281, 527-530
Rechargeable.....	281, 529
Rotating.....	529
UV Leak Detection.....	472

Flat Tip	
Bit.....	157-158
Screwdriver.....	139-141, 144-145, 178
Flex Head	
Ratchet.....	7-11, 98
Torque Wrench.....	247-248
Wrench.....	105-106, 120
Flexible	
Carburetor Tools.....	455
Distributor Tools.....	458
Drivers.....	82, 455, 458
Extensions.....	73, 202
File Holder.....	581
Files.....	581
Fingers.....	569
Lights.....	534
Pick-up Tools.....	568
Shank (Screwdriver).....	125
Flip Socket.....	238, 493, 537
Floor Jacks.....	510-511
Floor Mats.....	398
Floor Presses, Hydraulic.....	597-598
Fluid Maintenance	
Fluid Evacuators.....	536
Fuel System Maintenance.....	536
Transfer Pumps.....	536
Flush Gun.....	475
FOD Ratchet.....	13
Folding	
Scissors.....	190
Shelf.....	395
Wrench Sets.....	129
Ford® Navistar® Diesel Tools.....	235, 239-241
Four Wheel Drive	
Boot and Joint.....	506
Front Wheel Drive.....	506
Half Shaft Removal.....	506
Spindle Puller.....	506
Four-Way Angle Head, Wrenches.....	119
Freeze Plug Tools.....	476
Front	
End Tools.....	500-503
Spindle Pullers.....	506
Wheel Drive Tools.....	506
Fuel	
Adaptor Sets.....	453
Filter Socket.....	238
Filter Wrench.....	238, 456
Injection Gauge Holder.....	235
Injection Pressure Gauge.....	453
Injection System Cleaner.....	454
Injector Puller.....	239
Injector Timing Gauges.....	235, 240
Line Disconnect Tool.....	457
Line Plug.....	240
Pump Wrench.....	239, 245
Service, Diesel.....	235, 238
Tank Stand.....	513
Tube Remover.....	240
Funnels.....	243, 539
Fuse	
Pliers.....	449
Savers/Fuse Buddy™.....	438
Tongs.....	448

G

Gappers, Spark Plug.....	565
Gas Analyzers.....	418

Gas Welders.....	521
Gasket Punches.....	186
Gauge	
Air Pressure.....	589
Belt Tensioning.....	476
Brake Drum/Rotor.....	573
Chisel.....	184
Compression.....	450-451
Cylinder Bore.....	553
Cylinder Leakage.....	452
Diesel Compression.....	451
Drill Bits, Wire.....	312
Feeler/Gap.....	237, 564-565
Holder.....	235
Hole.....	562
Hydraulic Pressure.....	229
Injector Height.....	236
Manifold.....	472
Pressure.....	450-452, 544
Spark Plug.....	565
Test, Micrometer.....	561
Thread.....	207, 211
Timing.....	235, 240
Tire Pressure.....	487-490
Torque Angle.....	253
Tread Depth.....	491
Gear Oil Pumps.....	541
Geared Head Multiplier.....	258
General Service Sets	
1/2" Drive.....	98-100
1/4" Drive.....	90-92, 96
1/8" Drive.....	89
3/4" Drive.....	100
3/8" Drive.....	92-98
Glasses/Goggles.....	614-616
Gloves	
Blast.....	594
Carbon Knuckle.....	611
Cold Weather.....	611, 612
Cut Resistant.....	613
Dispenser.....	613
Hi-Viz.....	612
Impact.....	612
Latex.....	613
Leather.....	612
Nitrile.....	613
SuperCuff™.....	580
Washable.....	613
Welding.....	521
Work.....	612-613
Glow Plug	
Compression Adaptors.....	238, 451
GM-Style Torx® Driver.....	58
Goggles.....	475, 523
Governor Gap Tools.....	236
Graphing Scanners.....	404-409
Graphing Meter.....	406-408
Grease	
Control Valve.....	540
Dispenser.....	308, 539-540
Dispensing Systems.....	539-540
Gun.....	275, 308, 539
Guns & Accessories.....	539-541
Pumps.....	541
Grinder	
Accessories.....	318, 610
Air.....	285, 297-299, 303
Die.....	285, 297-298, 303
Discs.....	299, 317, 611

Electric.....	281
Wheel.....	299, 610
Groove Cleaners, Piston Ring.....	554
Gun	
Air Solvent.....	554
Blast.....	592-594
Blow, Non-Vented.....	322
Blow, Vented.....	323
Flush.....	475
Grease.....	275, 308, 539
Heat.....	587
Injection.....	471-472
Oil Spray.....	540
Paint.....	590-591
Sandblasting.....	593
Soldering.....	182
Spool.....	517-518
Spray.....	588-590
Stud.....	525
Suction.....	540
Vibro.....	244

H

Hacksaw	
Bi-Mold.....	190
Blades.....	190
Miniature.....	190
Professional.....	190
Half Moon Box Wrenches.....	116
Hammer	
Air.....	296
Air Accessories.....	296, 321
Ball Peen.....	187, 189
Body.....	578-579
Brass.....	188
Bronze Tip.....	188
Chipping.....	189
Claw.....	189
Combination.....	188
Cross Peen.....	189
Dead Blow.....	187-188, 554
Dual Face.....	187
Engineer.....	189
Hand Drilling.....	189
Heavy Duty.....	189
Heavy Duty, Air.....	296
Interchangeable.....	188
Piston.....	187, 554
Plastic Tip.....	188
Rubber Mallet.....	188, 499, 554
Set.....	187
Sledge.....	125, 187-189
Slide.....	222, 226, 239
Soft Face.....	188
Tire.....	499
Hand Cleaner	
Dispensers.....	609
Fingernail/Hand Brush.....	609
Hand and Shop Towels.....	609
Medicated.....	608
Pumice.....	609
Water Activated.....	609
Hand Saw.....	190
Handles	
1" Drive.....	88
1/2" Drive.....	86
1/4" Drive.....	82, 84
3/4" Drive.....	88

INDEX

Handles (con t)	
3/8" Drive.....	84
Air Drill.....	309
File.....	195, 581
Screwdrivers.....	149
TorqueMeter®.....	251-253
Hang-on	
Prybar Rack.....	163, 396
Trays.....	395-396
Valve Rack.....	396, 552
Hardwood Tops.....	381
Harmonic Balancer Tools.....	549
Head Bolt Tools.....	545
Headlamp	
Adjuster.....	587
Headlight Aiming Adaptors.....	587
Spring Tool.....	587
Wrench.....	587
Hearing Protection.....	614, 615
Heat Gun.....	587
Heated Leak Detectors.....	470-472
Heavy Duty	
Cutter.....	166, 177
Die Grinder.....	297
Gloves.....	611
Hammer.....	189
Hammer, Air.....	296
Housing with Collet.....	217
Pliers.....	165
Polisher.....	305
Prybar.....	162-163
Puller.....	224
Punch.....	186
Replacement Locks, Tool Storage.....	400
Scraper.....	196
Soldering.....	182
Truck Tools.....	241-242, 497-499
Wrench.....	125-126
Wrench, Impact.....	287-289
Helmets, Welding.....	522-523
Heritage	
Drawer Section.....	367
End Cabinet.....	368
Locker.....	368
Reference Chart.....	363
Roll Cab.....	363-365
Top Chest.....	366-367
Hex	
Bit Socket.....	60-63, 68-69
Driver.....	60-63, 68-69, 455, 506
Holder.....	20
Low Profile Socket.....	508
Screwdriver.....	144
Shank Bits.....	83, 85, 86
Shanks.....	75, 77, 78
Wrench.....	126-132, 237, 243
Hex-to-Square Adaptors.....	83, 85
High Performance Sockets.....	69
High Range Seal Tools.....	508
Hinged Head Pick-up Tools.....	568
Hobby Knife.....	194
Holder, Tool.....	387-397
Hole	
Gauges.....	562
Reconditioners.....	207
Saws.....	315
Hones.....	553
Hook Type Spanner Wrenches.....	135
Hook.....	159-160

Hose	
Air.....	244, 323, 588
Clamp Cutters.....	482
Clamp Pliers.....	456, 481-482
Cutters/Slitters.....	480
Nozzles.....	604
Pinchers.....	456
Pinching Pliers.....	456
Reels.....	604
Hoses, A/C.....	473
Hub Cap Tools.....	499
HVLP Spray Guns.....	588
Hydraulic	
Bottle Jacks.....	511
Cable Cutter.....	204
Hoists.....	514
Jacks.....	510-511, 513
Nut Splitter.....	204
Power Kits.....	229
Presses.....	597
Puller.....	224, 228-232, 240
Transmission Jacks.....	513
Wet Sleeve Puller.....	240
Wheel Dollies.....	512
Hydrometer.....	467
HY-LOK® Fastener Ratchets.....	14
I	
Idle Lock Nut Wrench.....	239
Ignition/Spark Plug Gauge.....	565
Ignition	
Adaptor.....	417
Tools and Testers.....	458
Wrenches.....	118, 458
Immersion Cleaners.....	602-603
Impact Sockets	
1 1/2" Drive.....	52-54
1" Drive.....	49-52, 497, 498
1/2" Drive.....	41-46, 493-497
1/4" Drive.....	20, 23-25
3/4" Drive.....	47-49, 496-497
3/8" Drive.....	31-33, 36, 70
Twist.....	33, 44
Impact	
#5 Spline Drive.....	88
1" Drive.....	52, 80, 88, 497
1 1/2" Drive.....	56, 80, 88
2 1/2" Drive.....	54, 80, 88
3/4" Drive.....	49, 80, 87, 497
Adaptors.....	77, 79, 83, 85-88
Chart.....	80
Driver.....	67
Drivers/Sets.....	67
Extension.....	74, 77, 79-81
Lock Rings and Pins.....	49, 52, 54, 80, 88
Socket.....	20, 23-25, 31-33, 36, 41-54, 70, 493-498
Wrench, Air.....	284, 286-291
Wrench, Cordless.....	271-273, 276-277, 279-280
Industrial Puller Sets.....	228
Information	
System (ShopKey®).....	420
System Repair.....	420
Infrared	
Printer.....	442
Thermometer.....	445
Injection Gun.....	471-472
Injection Pump Tools.....	235-240

Injector	
Brush.....	236, 238
Fuel.....	238-239, 316, 443-444, 446, 453-455
Gauge.....	236
Harness Testers.....	456
Height Gauge.....	236
Puller.....	239
Pump Wrench.....	239
Socket.....	239
Timing Gauges.....	235, 240
Wrench.....	239
In-Line Sanders.....	303
Inspection Mirrors.....	567-568
Installer Sets, Bushing.....	555-557
Instinct®	
Awls, Hooks and Picks.....	159
Screwdriver.....	140, 142-147
Interchangeable	
Hammer.....	188
Pliers Tip.....	171
Pullers.....	219-221, 224-228
Screwdriver Blade.....	150-151
Torque Wrench.....	254-258

J

Jack	
Air.....	511
Aluminum.....	510
Automotive.....	510-511
Body.....	577
Bottle.....	511
Hydraulic.....	510-511
Long Chassis.....	511
Manifold.....	198
Motorcycle.....	509
Push-Pull.....	577
Short Chassis.....	510
Stands.....	512
Transmission.....	513
Jitterbug Sander.....	303
Joint Rate Simulator Adaptor.....	264
Jumper Cables.....	466

K

Key Chain.....	398
King Pin Presses.....	504
Knee Pads.....	607
Knife	
Hobby.....	194
Lock Back.....	192-193
Pocket.....	192-193
Putty.....	196-198
Serrated.....	192-193
Set.....	197
Sharpening.....	191
Straight Edge.....	192-193
Utility.....	194

L

Landscape Tools.....	191
Latch-on® Wrenches.....	116
Latex Gloves.....	613
Lathes, Brake.....	570
Leak Detector	
A/C.....	470-471
Combustible Gas.....	418

Fluid	477
Halogen	470-472
Refrigerant	470
Smoke	440
Ultraviolet	470-472
Leather	
Tool Pouch	398
Tool Sheath	398
Work Gloves	611
Left Hand Drill Bits	214, 313
Letter Drill Bit Set	311
Levels	
Angle	562
Torpedo	562
Lifting	
End Lifts	511
Engine	514
Fuel Tank	513
Jacks	509-513
Stands	512
Transmission	513
Wheel Dolly	512
Lighted Mirrors	567
Light	
Flashlight	528-529
Flexible	534
Magnetic	529
Task	395
Timing	447
Tool Storage Unit	386
Twin Tube/Fluorescent	532-533
Utility	531-534
UV/LED Flex	471
Workstation	395
Lineman's Pliers	165, 168, 176, 180
Lithium Battery	281
Lock Bars	396
Lock Rings and Pins, Impact	
#5 Spline Drive	80, 88
1 1/2" Drive	54, 81, 88
1" Drive	52, 80, 88, 498
2 1/2" Drive	54
3/4" Drive	49, 80, 87, 498
Chart	80
Lock	
Pick Sets	159-160
Ring Pliers	170, 171, 508
Lock-Back Knives	192-193
Locker	
Classic	361
Docker	351
EPIQ	339
Masters	350
Locking	
Adaptor	78, 83
Bar	396
Extensions	72, 74-80
Knives	192
Lug Nut Remover Kit	494
Nut Driver	153
Pliers/Clamps	169, 524
Rings and Pins - 1 1/2" Drive	54, 81, 88
Rings and Pins - 1" Drive	52, 80, 88
Rings and Pins - 2 1/2" Drive	54
Rings and Pins - 3/4" Drive	49, 80, 87, 498
Rings and Pins for #5 Spline Drive	88
Speeder	86
Lock-out Tools	583
Locks	396, 400
Long Reach Pliers	167, 177
Looped Tool Holders	395
Low Profile	
Ratchet	13, 28
Socket	20, 28, 203, 243
Low Torque Slimline Wrenches	117
L-Shaped	
Hex Wrenches	130-132
Multi-Spline Wrenches	132
TORX® Wrenches	132
Wrench	127-128, 130-132, 237
Lubricants (Synthetic)	608
Lubrication Kits	540
Lubrication Tools	537-541
Lubricator, Air Line	600
Lug Nut Tools	241, 493-496

M

MacPherson Strut Tools	503
Magnetic	
Accessories, Tool Storage	392
Adaptor	81, 84
Base Holders	562
Bit Holder	155, 178, 389
Bit Socket	155
Can/Bottle Holder	392
Insert Bit Holder	388
Light	529
Nut Holder	391
Paint Gun Hook	590
Panels	393
Parts Tray	393
Pick-up Tools	568
Ratchet and Bit Sets	152
Screw Starters	152
Screwdrivers	149-151
Socket	23, 34, 45, 203, 236
Socket Clips, Rails, Holders and Trays	388-393
Spark Plug Sockets	203-204
Tool Holders	388-395
Tool Silhouettes	392
Tool Storage Accessories	384, 388-393
Trays	393
Washer Remover	551
Wrench Organizer	390
Mallet, Rubber	188, 499, 501
Mandrel Mounted Abrasives	319
Manifold	
Gauge Set	472
Jack Set	198
Repair Kit	472
Marking Set, Welder's	523
Master Bit Kit	154
Masters	
End Cabinet	348-349
Locker	350-351
Overhead Cabinet	347
Reference Chart	341
Roll Cab	342-345
Top Chest	346-347
Workstation Riser	347
Mastic Removal Tools	244-245, 586
Mats, Rubber	355, 381, 398
Measuring	
Caliper	562
Contact Points and Extensions	563
Dial Test Indicator Sets	563
Divider	562
Feeler Gauges	564-565
Levels	562
Magnetic Base	562
Micrometers and Sets	561
Precision Straight Edges	566
Sets	566
Small Hole Gauge Set	562
Spark Plug Gauges/Gappers	565
Steel Rules	566
Tape Rules	566
Telescoping Gauge Set	562
Timing Gauges	563
Mechanic's Stethoscope	444
Mechanical Fingers	568-569
Metal Boxes	380, 398
Metal Cutting Shears	285, 300, 579
Meter	
AVR Testers	463-464
Clamp On	432
Digital	406-408
Digital Clamp-on	432
Duty Cycle	430-431
Graphing	406-408
Multimeters	430-432
Specialty	446
Torque	261
Volt-Amp	430-431
Volt-Ohm	406-407
Metric Tools	
Alignment Tools	501-503
Allen Wrenches	129-132
Bolt Thread Gauge	207
Bracket Wrenches	129
Brake Tools	572-576
Bushing Driver Set	557
Carburetor Tools	455
Caster-Camber Tools	501
Chasers, Thread	206
Click-Type Torque Wrenches	249, 250, 254-258
Compression Gauges	450-451
Crowfoot Wrenches	121, 122, 124, 125
Diesel Injector Socket	239
Distributor Tools	458
Drain Plug Sockets	508, 544
Drill Bits	311, 315
Feeler Gauges	564-565
File, Thread Restorer	206
Flaring Tools	200
Folding Hex Wrenches	129
Fuel Injector Sockets	239
Head Bolt Tools	241, 545
Hex Wrenches	127-131
L-Shape Hex Wrenches	127, 130-131
Lug Nut Socket	493-494
Pressure Gauges, Tire	487-490
Ratcheting Box Wrenches	102-106, 115-116, 124, 137, 180, 467, 475
Rethreading Tools	205-206
Screwdrivers	254
Spark Plug Hole Rethreaders	207
Spindle Rethreader	207
T-Shape Hex Wrenches	128-129
Taps and Dies	208-211
Thread Chasers	206-207
Thread Pitch Gauge	210, 211
Threading Tools	208-211
Timing Gauges	563

INDEX

Metric Tools (con t)	
Tire/Wheel Tools.....	489-499
Torque Wrenches.....	249,250, 251-258
TORQOMETER® Wrenches.....	251-253
Transmission Drain Plug Socket.....	243, 508
Tube Cutting/Flaring Tools.....	199-200
Valve Cover Bolt Socket.....	552
Valve Tools.....	550, 552
Metric	
Automotive Tool Sets.....	622-625
Set Building Program.....	622-625
Micro Air Tools.....	285, 295, 305
Micrometers	
Digital.....	561
Outside.....	561
RM130 Rotor.....	572
Test Gauges.....	561
MicroVAT™.....	463
Midget Chisels.....	185
Midget Punches.....	185
MIG Wire Feed Welders.....	515-517
Mini Tip Screwdriver.....	139-143, 146
Miniature	
Air Ratchet.....	292, 293
Awls, Hooks and Picks.....	159
Cutter.....	176
Die Grinder, Air.....	297, 298
File.....	195
Flex Light.....	471
Hacksaw.....	190
Pliers.....	176, 177, 183
Screwdriver.....	139, 140, 143, 144, 145, 147, 152
Soldering Torch, Butane.....	183
Utility Knife.....	194
Mirrors	
Hinged.....	567
LED Telescoping.....	567
Inspection.....	567
Lighted.....	567
Pocket.....	567
Telescoping.....	567
Mitchell1® Service Programs.....	607
Mobebe Hose Clamp Pliers.....	481
Mobile	
Battery Charger.....	272, 281, 411
Industrial Puller Set.....	228
Light Tester.....	439
Solutions, Tool Storage.....	369-376
Workstation.....	370
MODIS™.....	414, 416, 417, 419
Modular Connectors (Crimping Tools).....	174-175
Modulator Wrench.....	458
Motorcycle	
Compression Gauge.....	450
Exhaust Probe.....	442
Gas Tank Cover.....	242
Jack.....	509
Lift.....	509
Service Tools.....	242-244
Special Purpose/Application.....	244
Tire Changer.....	485
Wheel Balancer.....	485
Muffler Tools.....	198-199, 321
Multi-	
Cylinder Secondary Ignition Adaptor.....	417
Function Switch Tool.....	448
Position Prybar.....	162

Purpose Cutter/Scraper.....	194, 197
Spline.....	132, 213
Multi-Cut Flat File.....	195
Multimeters.....	430-433
Multi-Outlet Strips.....	534
Multiplier Wrenches.....	258-259
Multiplier Gear Head.....	258-259
N	
Needle	
Files.....	196
Nose Pliers.....	165, 167, 172, 176, 177, 180
Scaler.....	304, 321
Nibbler.....	282, 300
Ni-Cad Battery.....	281
Noise and Vibration Diagnostic Unit.....	443
Non-Conductive	
Adaptor.....	179
Breaker Bar.....	179
Driver.....	180
Extension.....	179
Pliers.....	180
Ratchet.....	179
Screw Starter.....	178
Screwdriver.....	178
Socket.....	179
Wrench.....	180
Non-Magnetic Feeler Gauge.....	565
Non-Marring	
Prybar.....	162
Scraper.....	196
Non-Turning Air Hammer Bits.....	321
Nozzles (Water).....	604
Nut	
Driver.....	153, 180, 309
Holder, Magnetic.....	391
Setting.....	581
Splitter.....	204
Starters.....	152
Wrench.....	239
Nylon Tool Chest Covers.....	355, 371, 372, 373, 374, 375, 382

O	
OBD-II Break Out Box.....	437
OBD-II Code Readers.....	421, 422
Offset Screwdrivers.....	147, 152
Oil Filter	
Crushers.....	538
Plier.....	537
Socket.....	537
Wrench.....	537-538
Oil	
Air Motor.....	324
Crusher.....	578
Deflectors.....	551
Drains.....	538
Drum Plug.....	538
Filter.....	243, 245, 537-538
Funnels/Spouts/Pans.....	243, 539
Oilers.....	538
Pliers.....	537
Pressure Gauge.....	544
Pressure Sender Switch Socket.....	544
Pump Removal Tool.....	544
Pumps.....	541

Spray Gun.....	540
Wrenches.....	245, 537-538
Oilers.....	537-538
Open End	
Torque Wrench.....	257
Wrench.....	102-112, 117-120, 126, 137, 257
Orbital Sanders.....	301-302
Oval Punches.....	186
Oxygen Sensor Tools.....	459

P	
Pad, Knee.....	607
Padlocks.....	396
Paint	
Gun.....	588-589
Gun Cleaner.....	591
Gun Cleaner Brushes.....	591
Gun Hook.....	590
Spray Equipment.....	588-591
Spray Guns.....	588-589
Tool Storage Unit Touch-up.....	399
Panel Tools.....	584-585
Parking Brake Removal Tool.....	576
Parts Cleaning Brushes.....	604
Parts Storage Cases.....	378
Parts Trays.....	393, 394
Parts Washers	
Aqueous Based.....	603
Solvent Based.....	602
Washer Accessories.....	604
Pentagon Socket.....	31, 41
Persuader Wrench, Valve.....	135
Phillips®	
ACR® Screwdrivers.....	142-143
Anti-camout Bits.....	152, 154, 156, 158
Bit.....	156-158
Bit Sockets.....	66
Composite (Non-Conductive).....	178
Mini-Tip Screwdrivers.....	139, 140, 142, 143
Pocket Screwdriver.....	142, 143
Power Bits.....	158
Screwdriver.....	139-140, 142-143, 147, 148-152, 178
Stubby Screwdrivers.....	139-140, 149
Wobble Bits.....	156
Pick Sets.....	159-160, 482
Picks, Body.....	585
Picks, Lighted.....	160
Pick-up Tools	
Claws.....	569
Lighted Magnetic.....	569
Magnetic.....	568-569
Pilot Bearing Pullers.....	222
Pin Spanner Adjustable.....	135
Pin	
Gripping Pliers.....	162
Punches.....	184-186, 321
Pinch Bars.....	163
Pinching Pliers.....	456
Pinion Nut Sockets.....	505
Pin-Type Spanner Wrenches.....	135
Pipe	
Nipple Remover.....	217
Plug Extractor.....	215
Plug Sockets.....	31, 41
Wrench.....	131
Pistol Grip Screwdrivers.....	149
Piston Service Tools.....	553-554

Pitman Arm Pullers.....	219, 221, 223
Plasma Cutters.....	520
Plastic	
Boxes.....	378-379
Cutters.....	166
Drawer Dividers.....	394
Tip Hammers.....	188
Pliers	
Adjustable Joint.....	165, 168, 176
Battery.....	467
Boot Clamp.....	506
Brake Spring.....	572
Cable Clamp.....	467
Combination/Slip-Joint.....	165, 168, 176
Composite (Non-Conductive).....	180
Connector.....	174
Cotter Pin.....	499
Crimping.....	174-175
Duck Bill.....	167, 176, 177
Electrical Service.....	172-175, 180
Electrician s/Electronic.....	172-175, 180, 183
Electronic Service.....	172, 183
Exhaust Hanger Removal.....	198
Fuse.....	448
Heater Hose Clamp.....	481-482
Heavy Duty.....	168
High Leverage.....	166, 168
Hose Pinching.....	456
Hose Pulling.....	481-482
Interchangeable Tip.....	171
Lineman s.....	165, 168, 176, 180
Locking.....	169, 524
Long Reach.....	167, 177, 524
Mini.....	176-177, 183
Miniature.....	176-177, 183
Needle Nose.....	165, 167, 172, 176, 177, 180
Non-Conductive Composite.....	180
Oil Filter.....	537
Pin Gripping.....	162
Pinching.....	456
PowerEdge™ Pliers.....	165, 166
Radiator Hose Clamp.....	481-482
Retaining Ring.....	170-171, 508
Set.....	165-171, 176-177, 183, 508
Snap Ring.....	170-171, 508
Spark Plug Boot.....	201
Special Purpose/Application.....	167, 168
Talon Grip™.....	167, 168
Valve Stem Seal.....	551
Wheel Weight.....	484, 485
Wire Twisting.....	245
Wrench.....	133
Pocket	
Blow Guns.....	322
Knives.....	192-193
Magnifier.....	534
Mirrors.....	567
Rule.....	566
Screwdriver.....	142, 143
Sharpener.....	191
Thermometer.....	474
Polisher	
Air.....	285, 305
Electric.....	282
Polishing and Sanding Kits.....	305
Portable Pressure Blast Systems.....	591
Potentiometer Adjuster.....	144
Power Tools	
Accessories.....	308-324
Air.....	283-306
Cordless.....	270-282
Electric (Corded).....	282
Power	
Adaptors.....	83, 85, 86
Antenna Socket.....	587
Bit Kits.....	309
Bit Sockets.....	58, 61, 63
Bits.....	157, 158, 159, 309
Cords.....	534
Hex Shanks.....	83, 85, 86
Invertors.....	462
Magnetic Sockets.....	23-24, 34, 45
Shears.....	285, 300
Sockets.....	23-24, 34, 45, 65
Steering/Alternator Tools.....	219, 223, 546
Universal Joint.....	83, 85, 86
PowerCab™	
End Cabinet, Masters.....	349
PowerEdge™ Pliers.....	165, 166
Pozidriv®	
Bit.....	66, 156, 158
Bit Socket.....	66
Driver.....	66, 145
Hex Shank Bits.....	154, 156, 158
Screwdriver.....	145
Precision Straight Edges.....	566
Preset Torque Wrenches.....	254
Presses	
Arbor.....	598
Ball Joint.....	500
Bench.....	597-598
Brake Caliper.....	574
Floor.....	597-598
Hydraulic Floor.....	597-598
King Pin.....	504
Step Plate.....	598
Pressure	
Blast Systems.....	591-593
Gauge.....	229, 232, 243, 450-452, 489-490, 507, 544
Screw.....	221, 225
Washers.....	605
Printer	
Infrared.....	442, 464
Paper.....	442, 464
Wireless.....	442, 464
Probe	
Amp.....	416, 432, 463
Extension.....	433
Exhaust.....	442
Ignition Quick.....	446
Temperature.....	433, 463
Pro-Link iQ™	
Pocket iQ™.....	422
Software.....	423-424
Tools.....	422-423
Prybar	
Heavy Duty.....	161, 163
Multi-Position.....	162
Non-Marring.....	162
Rack.....	370, 395, 396
Set.....	161-163
Striking.....	161-162
Pull Rods.....	585
Puller	
Adaptor.....	220, 221, 222, 227, 229, 232, 233-234, 239
Alternator Pulley.....	219, 223, 546
Automotive.....	222-223
Axle.....	221, 222, 504, 505
Bar Type.....	219-220, 231-233
Battery Cable Clamp.....	467
Bearing Separator.....	233
Blind Hole Bearing.....	234
Body Dent.....	525-526, 577
Bolt Grip.....	222
Bushing.....	555
Cable Clamp.....	467
Cotter Pin.....	499
Dent.....	525-526, 577
Diesel Injector.....	239
Differential Side Bearing.....	219
Dowel Pin.....	217
Features.....	218
Freeze Plug.....	476
Fuel Injector.....	239
Gear.....	210-224, 235, 240
Harmonic Damper.....	223, 549
Heavy Duty.....	224
Hydraulic.....	224, 228-232, 240
Industrial.....	228
Injector.....	239
Interchangeable.....	219-221, 224, 227
Jaw Type.....	221, 224-228, 230, 232
King Pin.....	504
Light Duty.....	224
Medium Duty.....	224
Pilot Bearing.....	222
Pitman Arm.....	219, 221, 223
Power Steering Pulley.....	223, 546
Pulley.....	219, 223, 238, 240
Pumps and Rams.....	229, 232
Push/Pull.....	231
Quarter Panel.....	577
Rear Axle.....	221, 222
Selection Guide.....	218
Side Bearing.....	219
Slide Hammer.....	217, 221-222, 224, 226-227, 234, 239, 577
Special Purpose.....	222
Specifications.....	227, 232
Spindle.....	506
Steering Pivot Pin.....	222
Steering Wheel.....	222
Steering Wheel Lock Plate Depressor.....	222
Stud.....	216
Tapped Hole.....	222, 231
Universal Wheel.....	505
Wet Sleeve.....	240
Wheel Hub.....	505
Pulse Adaptor, Diesel.....	238, 446
Pump Adjusting Tools, Diesel.....	239
Punch	
and Chisel Holder.....	184
and Chisel Set.....	184-186
and Chisel, Air Hammer.....	321
Heavy Duty.....	186
Punches, Soft Grip.....	186
Punches.....	184-186, 321
Push Rod Tools.....	237
Putty Knives.....	196-198

Q

Quick Change	
Anvil	271, 273, 276, 279-280
Bit Set	282, 309
Chuck	279, 296, 321
Coupler	155, 238, 324
Extension Set	282
Tip	322
Quick Connect/Disconnect Tools	475-476, 507
Quick Release Ratchets	12

R

Race Drivers, Bearing	556
Radiator Tools	476-482
Radio Trim Nut Socket	586
Rails and Clips, Socket	387-390
Ratchet and Bit Sets	151-154
Ratchet	
1" Drive	15
1/2" Drive	10-14, 179
1/4" Drive	7, 11-14
3/4" Drive	15
3/8" Drive	8-9, 11-14, 179
Accessories, Air	308
Adaptor	13
Air	284, 292-293
Breaker Bars	16
Dual 80™ Technology	7-13
F.O.D.	13
Flex Head	7-12, 98
Heads (Torque Wrench)	255
Heads/Handles	15
HY-LOCK®	14
Insulating (Composite)	179
Low Profile	13, 20, 28
Non-Conductive	179
Palm	14
Quick Release	12
Repair Kit	7-16, 152
Round Head	11
Sets	12, 14
Special Purpose/Application	14
Specialty	11
Spinners	14
Spud	14
Swivel	11
Ratcheting	
Adaptor	13, 104
Bit Sets	154
Box Wrenches	102-106, 115, 136-137, 180, 255
Crimpers	174
Cutter	199
Driver	82, 148-152
Screwdriver	148-152
Tap Wrenches	211
T-Handle Driver	82, 150
Torque Wrench	247-250, 255
Wrench	102-106, 115, 136-137, 180, 255
Reamer, Tapered	316
Rear Axle Puller	221, 222
Rechargeable Utility Lights	272, 281, 530
Reciprocating Saw	272, 275, 284, 300
Reel Lights	533

Refrigerant	
Leak Detector	470-471
Recovery Recycling Center	469
Scale	470
Regulators, Air Line	589, 600
Remote Control Mirror Tools	586
Remote Control Starter Switch	466
Repair	
Body	525, 577-587
Collision	525
Extension	72, 76
Extractor, Porcelain	201
Information System (ShopKey®)	420
Manifold	472
Ratchet	7-16, 152
Respirator Filters	616
Retaining Ring Pliers	170-171, 508
Rethreading Tools	205-207
Reversible	
Cut Off Tool, Air	299
Disc Sander	302
Drill, Air	294-295
Screwdriver Blade	147
Revolving Punch	186
Ridge Reamer, Cylinder	553
Right Angle Drill	295, 314
Rim Tools, Wheel	498-499
Riveters and Rivet Kits	580-581
Road Chest	371
Roll Cab	
Classic	358-359
EPIQ	330-336
Heritage	363-365
Masters	341-345
Cover	382
Roll Cart	370-376
Roll Pin Punches	185, 321
Rotor Thickness Gauge	573
Round Head Ratchets	11
Rubber	
Hammer	188, 499, 501
Mat, Tool Storage	381, 398
Runout Gauges	573

S

Safety	
Arm Protectors	607
Back Supports	607
Ear Protection	614, 615
Face Protection	522, 614
Glasses	614-615
Goggles	523, 626
Hearing Protection	614
Information	W1-W4
Knee Pads	607
Respirators and Filters	616
Wiring	245
Sales Aids	414
Sandblaster	593
Sander	
Accessories	316
Air	285, 301-304
Belt	304
Disc, Reversible	302
Dual Action	302, 305
Heavy Duty	303
Jitterbug	303
Orbital and Geared	301-302

Sanding	
Blocks	586
Kits	305
Saw	
Air	300
Blade	190, 320
Hack	190
Hand	190
Hole	315
Micro	300
Mini	190
Quick Cutter	190
Reciprocating	271-272, 275, 300
Scaffold Ratchet	14
Scanner and Accessories	402-419
Scissor Lifts	509
Scissors	190, 579
Scopes	
Electronic Stethoscopes	443-444
Video Borescopes	429
Scraper	
Carbon	197
Heavy Duty	196-197
Multi-Purpose	197-198
Non-Marring	196
Set	196-198
Striking	196
Screw	
Extractors	212-215
Pitch Gauge	210
Starters	152, 178
Screwdriver	
Bits and Accessories	151, 154-159, 309
Clutch	156
Cordless	279-280, 282
Diamond Tip	142, 157
Dzus® Fastener	147
Electronic Service	143-145, 151, 178
Flat Tip	139-143, 156, 158, 178
Hex	144
Instinct®	139-143, 145-147
Insulated	178
Interchangeable Blade	150-151
Mini Tip	139, 143, 146
Miniature	144-145
Non-Conductive	178
Offset	147, 152
Phillips®	139-140, 142-145, 147, 151, 178
Pocket	142, 143
Pop Up	148
Potentiometer Adjusting	144
Pozidriv®	145
Rack	396
Ratcheting	148-152
Reversible Blade	147
Scrulox®	154, 156
Set	139-148, 151-152, 178
Spark Test	142
Special Purpose/Application	147-148
Square Tip	148, 154-156
Tamper-Resistant	146
T-handle/T Shape	150
Torque	254
Torx®/Torx Plus®	145-147, 151-152
Scribe	160
Scrulox®	154, 156
Seal	
Drivers	555-557
Removal Tools	160, 555

Sealing Cap Sets	507	Drag Link	31, 40, 46	Tools	201-202
Seat Creeper	560	Drain Plug	240, 476, 544	Spark Test Screwdrivers	142
Sensor		Driver	64-67, 240, 243	Special Purpose/Application	
Socket	238, 241, 459	Driver Tray	389	Bit Socket	58, 65
Versatorq®	261	Engine	240	Cutter	166
Voltage	439	Engine Barring	549	Drill Bits	313-315
Set Building Programs	617-625	Filter	238, 537	Motorcycle Tools	244
Shackle Pin Sockets	44, 497	Flank Drive®/Flank Drive® Plus	18-19, 23-27, 30, 33, 35-39, 41-56, 202-203	Pliers	166-167
Shanks, Power Hex	83, 85, 86, 155	Flare Nut	30	Ratchet	11, 14
Sharpening Stones/Kits	191	Flip	238, 493-495, 537	Screwdriver	147-148
Shears		Hand	241	Socket	21-22, 29-31, 33, 40-41, 44, 46, 52, 58, 65, 203, 236, 241
Metal Cutting	579	Head Bolt	65, 241, 545, 552	Wrench	116-117, 128, 135-137
Powered	300	High Performance	69	Specialty	
Shop	579	Holders	387-390	Aviation Tools	244-245
Vinyl	579	Hose Clamp	242	Circuit Tester	437
Shelf, Folding	395	Impact	3, 25, 31-3, 36, 40-56, 241	Meter	446
Shock Absorber Tools	501	Lock	495	Ratchet	11, 14
Shop Fans	606	Long	19, 585	Wrench	116-117, 245
Shop Supplies	607-611	Low Profile	20, 22, 28, 508	Speed Blasters	593
Shop Vacuums	606	Lug Nut	493-495	Speeder	
ShopKey®	420	Magnetic	23-24, 34, 45, 203, 236	1/2" Drive	86
Short Circuit Locator	438	Metric Injector	239	1/4" Drive	82
Shot Dolly	580	Mirror	586	3/8" Drive	84
Side Bearing Pullers	219	Non-Conductive	179	Locking	86
Side Cutters	165, 166, 173, 176, 177	Oil Filter	537	Shank	150
Single Square Sockets	52	Oil Pressure Sender Switch	544	Spicer Clutch Adjusting Tool	509
Siphon Gun, Oil	540	Organizers	387-390	Spindle Puller	506
Slatebar	163	Pipe Plug	31, 41	Spindle Rethreaders	207
Sledge Hammer Wrenches	125-126	Retaining	493-495	Spinner Ratchet	14
Sledge Hammer	187, 189	Sensor, ICP	238	Spline	
Slide Hammer Pullers	217, 221-222, 224, 226-227, 234, 239, 577	Sensor, Oxygen	459	Box Wrenches	137
Sliding T-Handles		Sensor, Water	238	Combination Wrenches	137
1 1/2" Drive	88	Set	18-20, 22-28, 30-33, 35-39, 41-44, 46-51, 53, 55-58, 60-64, 68-69, 89-100, 179	Drive, #5	88
1" Drive	88	Shock Absorber	501	Multi-	132
1/2" Drive	86	Spanner	236, 582	Ratcheting Box Wrenches	137
1/4" Drive	82	Spark Plug	202-204	Socket	69-70, 235
3/4" Drive	87	Special Purpose/Application	21-22, 29-31, 33, 40-41, 44, 46, 52, 58, 65, 203, 236, 241	Torque Adaptor	266
3/8" Drive	84	Spline	69-70, 235	Wrench	137
Sliding Trays	396	Switch	544	Spool Gun	517-518
Slimline Wrenches	117	Swivel	25, 31, 36, 45-46, 202, 241	Spoon, Body	580
Sling, Engine	514	Tap	210-211	Spoons	580
Slip-Joint Pliers	165, 168, 176	Thermal Vacuum Switch	549	Spot Weld	
Slitting Chisels	321	Thin Wall	44, 49	Breakers	284, 294, 321
Small Hole Gauge Set	562	Tie Rod	502	Cutter	587
Small Metal Boxes	380	Torx®/Torx Plus®	21-23, 25, 29, 30, 31, 36, 40, 57-59, 203, 585	Drill Bit	294
Smoke Machine	440-441	Trays	388-390	Welders	525
Snap Ring Pliers	170-171, 508	Twist	33, 44, 213	Spray Gun	
Snap Ring Retention Device	77, 79	Universal	24-25, 35-36, 69-70, 202	Accessories	588-590
Snips		Soldering		Full Size	588
Aviation	579	Accessories	183	Spring Compressor	
Light Duty & All Purpose	579	Tips	180-183	MacPherson	503
Tin	579	Tools	180-183	Valve Spring	550
Socket		Spark Plug		Spud Ratchet	14
1 1/2" Drive	52-54, 88	Boot Puller/Pliers	201	Square Drive	
1" Drive	49-52, 62, 70, 88, 497-498	Extractor	201	Adaptor	81, 88, 179
1/2" Drive	37-46, 57, 59-66, 70, 211, 493-494	File	202	Torque Wrench	255
1/4" Drive	18-25, 69, 211	Firing Indicator	202	Squares	566
2 1/2" Drive	55-56	Flexible Extensions	202	S-Shaped Box Wrenches	117
3/4" Drive	46-49, 70, 241, 494-497	Gap Gauges	564-565	Stainless Steel Tops	381
3/8" Drive	26-36, 67, 70, 74-77, 83-86, 155, 179, 202-204, 211, 459, 475, 507-508, 537, 544-545, 552, 576, 582, 586	Hole Rethreaders	207	Stand	
Non-Conductive, Composite	179	Hole Tap	207	Jack	512
Ball Joint	500	Pliers	201	Shop Manual	394
Clips, Rails, Holders and Trays	387-390	Repair Kits	201	Starter	
Double Square	22, 30, 40, 45, 52	Socket	202-204, 243	Current Ammeter	463-464

INDEX

Steering Wheel	
Lock Plate Depressor	222
Pivot Pin Puller	222
Pullers	222
Step	
Drills	315
Plates	598
Stools	398
Stethoscopes	
Electronic	443-444
Marine	444
Telescoping	444
Stones	
Brake	576
Cylinder	553
Stools, Work	398
Storage	
Box, Metal	380, 398
Box, Plastic	378-379
Cabinet, End	348-348, 361, 368
Cabinet, Wall	379
Cabinets, Flammables	591
Case	378
Combinations	330-368
Drawer	379
Module, Vertical	350
Overhead Cabinet	339, 347
Strap Wrench	135
Striking	
Prybar	161-162
Scraper	196
Strut	503
Stubby Bit Socket	57, 59-65
Stud	
Gun	525
Remover	215-216
Suction Cups, Body	585
Suction Cups, Valve	551
Suction Gun, Oil	540
Surface Drive Sockets	34, 45
Suspension Strut Tools	503
Swiss Needle Files	196
Swivel Head Ratchets	11
Swivel Sockets	25, 31, 36, 45-46, 202, 241
Swivel	
Ball Extension	31
Ball Universal Joint	83, 87
Connector	323
Socket	25, 31, 36, 45-46, 202
System Analyzers, A/C	469

T

T- and L-Shape Wrenches	127-131
Tables, Transmission	541
Tach/Advance Timing Light	447
Tachometers	446
Tailpipe Tools	198-199
Talon Grip™ Pliers	167-168
Tamper-Resistant	
Bit	58-59
Bit Socket	58-59
Screwdriver	146
Wrench	128, 132
Tap Socket	210-211
Tap Wrench	211
Tape Measures	566
Tape Rules	566
Tapered Reamer	316

Taps and Dies	
Rethreading	205
Self Aligning	210
Threading	208-211
Telescoping Gauge Set	562
Telescoping Mirrors	567
Telescoping Pick-up Tools	568
Temperature	
Adaptor	433
Probe	433
Terminal	
Brush	467
Cleaner	467
Crimpers	174-175
Tool, Soft Grip	449
Tool, Wire	448-449
Tools, Battery	466-467
Tools, Computer/Wiring	447-448
Test Equipment	
Battery System	463-465
Force Testing	264
Fuel System	454
Fuse	438
Ignition	458
Injector Harness	456
Torque	260, 262-265
Test Gauges, Micrometer	561
Test Leads	416, 433-435, 437
Tester	
Automotive Relay	446
Battery Systems	463-465
Circuit	435-439, 475
Cooling	477-480
Injection Harness	456
Oxygen Sensor	418, 442
TPMS	487-488
Trailer Harness	439
T-handle/T Shape	
Screwdriver	150
Sliding	82, 84, 86-88
Speed Drivers	84, 86
Torque Wrench	253
Wrench	115, 127-129, 210
Thermal Vacuum Switch Sockets	549
Thermometer	
Digital	474
Hydrometer	467
Infrared	445
Pocket	474
Thin Wall Impact Sockets	44, 49, 241, 493
Thread	
Chasers	206-207
Files	206
Gauge	207
Pitch Gauge	211
Restoring	205-207
THUNDERBIT®	310
Tie Rod	
Adjusting Tools	501-502
Separators	500
Socket	502
Timing	
Belt Wrench	542-543
Gauge	235, 240, 563
Lights	447
Tin Snips	579
Tip Drill	316
Tire/Wheel Tools	487-499

Tire	
Bead Breakers	498
Changer	243, 485-486
Depth Gauge	243, 491
Hammer/Mallet	499
Pressure Gauges	489-490
Pressure Monitoring	487-488
Spreader, Motorcycle	242
TPMS Tools	487-488
Tread Depth Gauge	243, 491
Valve and Stem Tools	491
Tongs, Fuse	448
Tool Control Board	224
Tool Control Kits	392
Tool Holders	387-398
Tool Storage	
Accessories	355, 377-400
Accessories, TUV	353-355
All Weather	370
Boxes, Small	378-380
Cabinet Locks	396, 400
Casters	400
Classic Series	356-361
Combinations	330-368
Covers	371-375, 382
Customization	384-386
Detent Kits	399
Drawer Dividers	394
Drawer Latches	399
Drawer Section	338-367
Drawer Slides	399
End Cabs	348-349, 361, 368
EPIQ Series	329-339
Heritage Series	362-368
Lights	386, 395
Lock Assemblies	400
Lockers	339, 350-351
Masters Series	340-355
Mats	355, 381, 398
Metal Boxes	380
Mobile Solutions	369-376
Overhead Cabinets	339, 347
Parts Trays	378, 393-394
Plastic Boxes	378-379
PowerCab End Cabinet	349
Road Chest	371
Roll Cabs	328, 330-336, 341-345, 357-359, 363-365
Roll Carts	369-376
Silhouettes, Magnetic	392
Skins	357
Top Chests	311, 323-324, 338, 346-348, 350, 355
TUV (Tool Utility Vehicle)	352-355
Vertical Storage Modules	350
Work Surfaces	381
Workstation Accessories	374
Workstations	313, 324, 339
Tool Utility Vehicles (TUV)	352-355
Top Chest	
Classic	359-361
EPIQ	311, 337
Heritage	365-366
Masters	346-347
Torches	183
TORQOMETER® Wrenches	251-253
Torque	
Acquisition Meter	261
Adaptor	240, 242, 266

- Adjustable Bodies 255
 - Angle Gauges 253
 - Bench Top Testers 265
 - Calibrator 264
 - Comparator 265
 - Driver 253
 - Electronic 259-265
 - Electronic Calibrator 263-264
 - Electronic Testers 260, 262-265
 - Electronic Wrenches 259
 - Joint Rate Simulator Adaptors 264
 - Multiplier Motor 258
 - Multipliers 258-259
 - Screwdrivers 254
 - Sticks 492
 - TechAngle® 247
 - Techmemory™ 248
 - Techwrench® 247-248
 - Tester 260, 262-265
 - Torqometer® 251-253
 - Versatest™ 262-263
 - Versatorq® 261
 - Versatorq1® 261
 - Weights and Trays 264
 - Wrenches 246-259
 - Torx®/Torx Plus®**
 - Bit 151, 154, 156-158
 - Bit Socket 57-59, 157
 - Driver 58, 240
 - Impact Sockets 23, 31
 - Mini-Tip Screwdrivers 144, 146
 - Screwdriver 145-147, 151
 - Socket 21-23, 29-31, 40, 57-59, 203, 475, 507, 585
 - Tamper Resistant 58-59, 132, 146, 156
 - Universals 25, 36
 - Wrench 113, 128, 130, 132, 138
 - Tote Bags** 324, 397
 - Tote Trays** 379
 - Touch-up Paint** 399
 - Trailer Testers (Lights and Brakes)** 439
 - Training Manuals** 607
 - Transducers**
 - Torque 264-265
 - VANTAGE Pro™ Multimeter 406
 - Transducer 264-265, 416
 - Transfer Punches 186
 - Transmission**
 - Bushing/Oil Seal Pullers and Driver 508
 - Drain Plug Socket 508
 - Filler 539
 - Jacks 513
 - Oil Cooler Line Disconnect Tool 507
 - Oil Pressure Gauge Set 507
 - Pump Puller 508
 - Seal/Bushing Installers and Removers 508
 - Service Set 508
 - Service Tools 507
 - Snap Ring Pliers 508
 - Tables 541
 - Tools 507-508
 - Trays**
 - Service, Under Hood 376
 - Sliding 396
 - Socket 388-390
 - Tote 379
 - Tread Depth Gauges 243, 491
 - Trim Pad Removers 584-585
 - Triple Square Bit Sockets 64-65, 68, 583
 - Trouble Lights 532-534
 - Truck Brake Tools 241, 573-575
 - Truck, Heavy Duty 241-242
 - T-Shape Hex Wrenches 127-129
 - T-Shape Wrenches 127-129
 - Tube**
 - Bender 200
 - Cutter 198-199
 - Tune-up Tools 458
 - Tweezers 183
 - Twist Sockets 33, 44, 213, 493
- ## U
- U.S. Set Building Program** 618-625
 - Ultra-Violet Leak Detectors** 471-472
 - Universal**
 - Bit Socket 179
 - Joint - 1" Drive 88
 - Joint - 1/2" Drive 86
 - Joint - 1/4" Drive 81, 83
 - Joint - 3/4" Drive 87
 - Joint - 3/8" Drive 83, 85
 - Joint Press 509
 - Joint Set 81, 83, 85-86
 - Joint Tools 509
 - Socket - 1/2" Drive 41
 - Socket - 1/4" Drive 24-25, 57, 60, 69-70
 - Socket - 3/8" Drive 35-36, 70, 202
 - Valve Core Service Tool 475
 - Utility**
 - Knife 194
 - Lights 532-534
 - Stands 512
 - Vehicle 352-355
- ## V
- Vacuum**
 - Adaptor 316
 - Hand Held 606
 - Portable Spotter 606
 - Pressure Gauge 452
 - Pumps 453, 473
 - Sandblaster 593
 - Wet/Dry 606
 - Valve**
 - A/C 475
 - Adjuster Socket 242
 - Adjuster Wrench 239
 - Adjusting Tools 552
 - Air 324
 - Brushes 551
 - Camshaft/Crankshaft Tools 551
 - Core 447, 491
 - Cover Bolt Socket 552
 - General Service 550-552
 - Guide Service Tools 551
 - Holders 550, 552
 - Keeper Tools 551
 - Lifters 550
 - Oil Deflectors 551
 - Persuader 135
 - Rack, Hang-on 396, 552
 - Removers 321, 551
 - Service Tools 550-551
 - Spring Depressors 550
- Spring Replacement 550
 - Stem Seal Pliers 551
 - Vanatge PRO™** 406
 - VERDICT™** 407
 - Versatest™** 262-263
 - Versatorq®** 261
 - Versatorq1®** 261
 - VERUS®** 408
 - Vibro Gun** 244
 - Video Scopes** 429
 - Vinyl Covers**
 - Air Tool (Boots) 286-296, 308
 - Equipment 440, 461, 469, 519
 - Motorcycle Gas Tank 242
 - Seat and Fender 558
 - Tool Storage 355, 371-375, 382
 - Vise**
 - Bench 594-595
 - Forged 595
 - High Visibility 595
 - Jaw Caps 596
 - Machinist s 545
 - Mechanic s 595
 - Pipe and Bench 595
 - Utility 595
 - Voltage Sensor 439
 - Volt-Ohm Meter 405, 407
- ## W
- Wall Cabinets** 379
 - Waste Oil Drains** 538
 - Water Pump Socket** 546
 - Water Spray Nozzle** 604
 - Weatherhead Sockets** 31, 40
 - Weight**
 - Hangers/Trays 264
 - Sets 264
 - Welding**
 - Clamps 523-524
 - Dent Pullers 525-526
 - Gas Welding Kits 521
 - Gloves/Sleeves 521
 - Goggles 523
 - Helmets 522, 614
 - MIG 516-518
 - MIG Welder Consumables 518
 - Muscle MIG/MIG Welder Accessories 517-518
 - Plasma Cutter 520
 - Spot 525
 - Stud Gun Dent Puller 525
 - TIG 519
 - TIG Accessories 519
 - Wet Sleeve Puller** 240
 - Wet/Dry Vacuums** 606
 - Wheel**
 - Alignment Tools 500-503
 - Axle Nut Socket 496
 - Balancer 484-485
 - Balancer Pin Plates 485
 - Balancing Accessories 484
 - Balancing Equipment 484-485
 - Bead Breakers 498
 - Bearing Packers 540
 - Calibration 264
 - Chock 499
 - Cut Off 318
 - Cutter 199, 318, 554
 - Dollies 512

INDEX

Wheel (con t)

Dresser	611
Flap	317
Flip Socket.....	493-495
General Service Tools.....	498-499
Grinding	318
Hangers	495
Hub Puller.....	505
Hub Removal Adaptor.....	505
Lock Socket.....	494
Lug Nut Sockets.....	241, 493-495
Pan	499
Puller	222
Rim Tools	499
Seal Driver	555-557
Shackle Pin.....	497
Socket	243, 493-495
Spanner Socket.....	496
Stud Kit.....	498
Tools	487-499
Torque Tools.....	492
Weight Cabinet.....	485
Weight Pliers.....	484-485
Wire	317, 610

Window

Holder.....	582
Removal Tools.....	582
Sash Tool	582
Scrapers	582

Windshield

Removal Tools.....	582
Tools	582
Wiper Remover	582

Wire Gauge Drill Bits

.....	312
-------	-----

Wire

Brush.....	317, 609-610
Crimper.....	174-175
Cutter.....	165-167, 173-176, 245
Feed Welders	516-517
Gauge Drill Bits	312
Installation Tools	448
Looper Pliers.....	172
Stripper.....	174-175
Terminal Kit.....	448
Terminal Tool.....	448-449
Twisters/Cutters.....	245
Wheel	317, 610

Wireless Printer

.....	442, 464
-------	----------

Wobble

Bit.....	156
Extensions	73, 75, 78

Wood Tops

.....	381
-------	-----

Work

Bench.....	596
Gloves.....	611-613
Stations	339, 347, 361
Stools	398, 560
Surface, Tool Storage	381

Workcenter

Accessories.....	395
EPIQ.....	339

Workstation

Accessories.....	395
Mobile.....	370
Riser.....	347, 361

Wrecking Bar

.....	163
-------	-----

Wrench

Adaptors, Ratcheting.....	104
Adjustable	124, 133-134, 537
Air Compressor	239
Allen	129-132
Aluminum	119, 131, 134
Angle Head	119
Antenna	587
Ball Hex	127, 130
Battery Terminal.....	467
Box	102-106, 113-116, 126, 136-137, 180, 255-256, 243
British Standard	112
Carburetor Adjusting	455
Caster Camber	501
Chain/Strap.....	135
Combination.....	102-108, 112, 120, 127, 130, 137
Crowfoot - 1/2" Drive.....	124-125
Crowfoot - 1/4" Drive.....	121
Crowfoot - 3/8" Drive.....	122-124
Distributor	458
Double End	121
Fan	239
Fan Clutch.....	236, 239, 480-481
Flank Drive®/Flank Drive® Plus.....	102-103, 107-111, 113-114, 116-117, 120-122, 124-126
Flare Nut.....	120-122, 124, 258
Flat	480
Flex Head.....	105-106, 120
Four Way.....	119
Fuel Filter.....	238, 456
Fuel Pump.....	236, 239, 245
Governor Gap	236
Half Moon	116
Headlight	587
Heavy Duty	125-126
Heavy Duty, Impact	286-291
Hex	127-132, 243
High Performance	103, 136-137
Ignition.....	118
Impact, Air.....	284, 286-291
Impact, Cordless	271-273
Injector	239
L Shape	127-128, 130-132, 237
Latch-on®	116
Midget	111, 113
Multi-Spline	132
Non-Conductive	180
Oil Filter	245, 537-538
Open End	102-112, 117-120, 126, 137, 257
Organizer	390-391
Persuaders.....	135
Pipe	131
Pliers	133
Push Rod	237
Radiator Cap	476
Ratcheting	102-106, 115-116, 124, 136, 137, 180, 255, 467, 475
Refrigeration	475
S Shape	117
Serpentine Belt	237
Set.....	102-137
Slimline.....	117
Spanners	135, 475
Special Purpose/Application.....	128, 135

Specialty.....	116-117
Spline	137
Stands	129
Strap	135
Striking	125-126
Stubby	106
Swivel.....	538
Tamper-Resistant.....	128-129, 132
Tap	211
T-handle/T Shape.....	115, 127-129, 211
Torque	247-255, 495
Torx®/Torx Plus®.....	113, 128, 130, 132, 151
Tubular.....	126
Turbo, Diesel	238
Vacuum Pump.....	245
Valve Adjuster	239

XYZ

X-4 s	259
-------------	-----

SNAP-ON TOOLS INTERNATIONAL LLC.

2801 80th Street
Kenosha, WI 53143

Telephone: For general inquiries 262-656-5200 (For export inquiries from within the USA) 262-656-5288 or 262-656-5119

Fax: (262) 656-1403 / (262) 656-0837 **E-Mail:** intl.sales@snapon.com

European Division Office - North

Ylisenkatu 39
23500 Uusikaupunki, Finland
Telephone: 358-400-536351
Fax: 358-401-536351
e-mail: european.division.north@snapon.com

European Division Office - South

2801 80th Street
Kenosha, WI 53143
Telephone: 1-262-656-5288
Fax: 1-262-656-1403
e-mail: european.division.south@snapon.com

Asia/Pacific Division

25 Tagore Lane #01-02
Singapore 787602
Tel: +(65) 6459-2712
Fax: +(65) 6459-1520
e-mail: asia.pacific.division@snapon.com
Internet: http://snapon.com.sg

Latin America/Caribbean Division

9500 South Dadeland Blvd.
Tower South Office #601
Miami, FL 33156
Telephone: (305) 670-1906
Fax: (305) 670-1908
e-mail: latin.america.caribbean.division@snapon.com

South East Europe - Middle East/Africa (SEEMEA) Division

P.O. Box 65 033
Athens 15410, Greece
Telephone: +30 210 6724828
Fax: +30 210 6725754
e-mail1: seemead@snapon.com
e-mail2:
south.east.europe.me.division@snapon.com

United Kingdom:

Snap-on Tools - Head Office and Distribution Centre

23 Telford Way
Kettering
Northants NN16 8SN, England
Telephone: 01536 413800
Fax: 01536 413900

Industrial - Government and Education, Sales Division - Snap-on Tools

Snap-on Industrial Business Centre
38A Telford Way, Kettering
Northants NN16 8UN, England
Telephone: +44 (0)1536 413904
Fax: 01536 413874
e-mail: industrialuk@snapon.com

Basildon

9 Victoria Business Park
Short Street
Southend-on-Sea
Essex SS2 5BY, England
Telephone: 01702 440290
Fax: 01702 440291

Basingstoke

Unit 15, Devonshire Business Park
Knights Park Road
Basingstoke
Hampshire 21 6XN, England
Telephone: 01256 858300
Fax: 01256 858303

Bristol

Unit 2
Kingscastle Business Park
The Drove
Bridgwater
Somerset TA6 4AG, England
Telephone: 01278 411911
Fax: 01278 421480

Hamilton

Unit 8, Block 6
Fullwood Ind Estate
Burnbank Road
Hamilton ML3 9AZ, Scotland
Telephone: 01698 477370
Fax: 01698 477380

Warrington

Unit 10
Prosperity Court
Midpoint 18
Middlewich
Cheshire CW10 1KJ, England
Telephone: 01606 734130
Fax: 01606 734144

Wetherby

8 First Avenue
Aviation Rd.
Sherburn In Elmet, Leeds
North Yorkshite LS25 6PD, England
Telephone: 01977 686450
Fax: 01977 686455

U.K. Repair Centre

Snap-on Tools Ltd.
Telford Way,
Kettering
Northants NN16 8UN, England
Telephone: 01536 413800
Fax: 01536 410740

Snap-on Tools (Australia) Pty Ltd.

National Distribution Centre
80 Holbeche Road
P.O. Box 6077
Blacktown, NSW 2148 Australia
Telephone: (61) 2-9837-9100
Fax: (61) 2-9837-9199
e-mail: sota.webmasters@snapon.com

SEBRA

Snap-on do Brasil Comercio e Industria Ltda
Rua Juscelino Kubitschek de Oliveira, 470
13456-401 Santa Barbara D Oeste, SP Brazil
Telephone: (19) 2108-1000
Fax: (19) 2108-1040
e-mail: snapon.industrial@snaponsun.com.br

Snap-on Tools B.V. - Netherlands

Schepenberweg 34
1105 AT Amsterdam
The Netherlands
Telephone: +31 (0) 20 5682666
Fax: +31 (0) 20-5682670
e-mail: benelux.info@snapon.com
Internet: www.snapon.com/nl

Snap-on Dealer Group Belgium

Contact Snap-on Tools B.V.

Snap-on Dealer Group Luxembourg

Contact Snap-on Tools B.V.

Snap-on Dealer Group Germany Division

Geschäftsbereich Snap-on Tools
SNA Germany GmbH
Gewerbering 1
09337 Hohenstein-Ernstthal / OT Wustenbrand
Germany
Telephone: +49-(0)3723-66820-12/13
Fax: +49-(0)3723-66820-14
e-mail: decustomerservices@snapon.com
Internet: www.snapon.de

Snap-on Industrial Belgium & Luxembourg Division

SNA Germany GmbH
Auf dem Hüls 5
40822 Mettmann
Germany
Telephone: +32-(0)14-231967
Fax: +32-(0)14-232627
e-mail: industrial.be@snapon.com
Internet: www.snapon.com/eu/industrial

Snap-on Industrial International Division

SNA Germany GmbH
Auf dem Hüls 5
40822 Mettmann
Germany
Telephone: +33-(0) 3 88 65 61 50
Fax: +33-(0) 3 88 65 61 51
e-mail: snapon-intl.europe@snapon.com
Internet: www.snapon.com/eu/industrial

Snap-on Industrial Germany Division

SNA Germany GmbH
Auf dem Hüls 5
40822 Mettmann
Germany
Telephone: +49-(0)2104-950-911
Fax: +49-(0)2104-950-999
e-mail: Indus.germany@snapon.com
Internet: www.snapon.com/eu/industrial

Snap-on Industrial USA Government Business Unit

SNA Germany GmbH
Auf dem Hüls 5
40822 Mettmann
Germany
Telephone: +49-(0)2104-950-928
Fax: +49-(0)2104-950-955
e-mail: Indus.germany@snapon.com

Snap-on Industrial Netherlands Division

SNA Germany GmbH
Auf dem Hüls 5
40822 Mettmann
Germany
Telephone: +31-(0)880 104000
Fax: +31-(0)880 104010
e-mail: industrial.nl@snapon.com
Internet: www.snapon.com/eu/industrial

Snap-on Tools Italia S.r.l.

via Bizet, 43/45
20092 Cinisello Balsamo (MI), Italy
Telephone: +39 02 66 04 53 70
Fax: +39 02 61 29 78 15
e-mail: indus.italia@snapon.com
Internet: www.snapon.com/eu/industrial

INTERNATIONAL OFFICES

SNAP-ON TOOLS INTERNATIONAL LLC.

2801 80th Street
Kenosha, WI 53143

Telephone: For general inquiries 262-656-5200 (For export inquiries from within the USA) 262-656-5288 or 262-656-5119

Fax: (262) 656-1403 / (262) 656-0837 **E-Mail:** intl.sales@snapon.com

Snap-on Tools Japan, K.K.

Snap-on, Bahco
2-1-6 Shinkiba, Koto-ku,
Tokyo, 136-0082 JAPAN
Telephone: +81-3-5534-1280
Fax: 81-3-5534-1284
e-mail: SOJ-INFO@snapon.co.jp
Industrial: +81-3-5534-1281
OEM/ National Accounts: +81-3-5534-1300
Bahco/Distribution: +81-3-5534-1301
Technical Repair Center: +81-3-5534-1289

Snap-on Tools Singapore Pte. Ltd.

25 Tagore Lane #01-01
Singapore 787602
Tel: +(65) 6451-5570
Fax: +(65) 6451-5574
e-mail: esales.sg@snapon.com
Internet: http://snapon.com.sg

Snap-on Tools Singapore Pte. Ltd.

Malaysia Branch
Block A, Unit A-2-3, Jaya Once
No. 72A, Jalan Universiti
46200. Petaling Jaya
Selangor, Malaysia
Tel: +(603) 7957-3088
Fax: +(603) 7958-2088
e-mail: esales.sg@snapon.com
Internet: http://snapon.com.sg

Snap-on Tools Singapore Pte. Ltd.

Philippines Branch
4/F, 2053 Building, Edison Street
San Isidro, Makati City
Philippines 1234
Tel: +(632) 843-7935
Fax: +(632) 843-7730
e-mail: esales.ph@snapon.com
Internet: http://snapon.com.sg

Snap-on Tools Singapore Pte. Ltd.

Indonesia Representative Office
Graha Pratama Building, 20th floor
Jl. M. T. Haryono Kav. 15, Jakarta 12810
Indonesia
Tel: +(62-21) 8370-9611
Fax: +(62-21) 8370-9612
e-mail: esales.sg@snapon.com
Internet: http://snapon.com.sg

Snap-on (Thailand) Company Ltd.

5th Floor, Talomsin Building, 924 Rama 3 Road
Bangpongpang Yannawa, Bangkok 10120
Thailand
Tel: +(66) 2294-9660
Fax: +(66) 2294-9665
e-mail: esales.th@snapon.com
Internet: http://snapon.com.sg

Snap-on Trading (Shanghai) Co., Ltd.

Unit 2001-2005, Ascendas Cross Tower
318 Fuzhou Road, Shanghai 200001
P. R. China
Tel: +(8621) 6391-2388
Fax: +(8621) 6391-2382
e-mail: esales.cn@snapon.com
Internet: www.snapon.com.cn

Snap-on Trading (Shanghai) Co., Ltd.

Beijing Branch
Room 517 Tower B, Grand Pacific Building
8A Guanghua Road
Beijing 100026
P.R. China
Tel: +(8610) 6581-8838
Fax: +(8610) 6581-6681
e-mail: esales.cn@snapon.com
Internet: www.snapon.com.cn

Snap-on Tools Hong Kong Ltd.

Unit 2010, 20/F., Laford Centre,
838 Lai Chi Kok Road,
Cheung Sha Wan, Kowloon
Hong Kong
Tel: +(852) 2370-3700
Fax: +(852) 2370-3400
e-mail: esales.hk@snapon.com
Internet: www.snapon.com.hk

Snap-on Tools Singapore Pte. Ltd.

Taiwan Branch
Address: 3F-4, No.9, Wuquan 1st Road,
New Taipei Industrial Park,
Xinzhuang District 24892
New Taipei City, Taiwan (R.O.C.)
Tel: +(886) (2)-2298 9789
Fax: +(886) (2)-2298 2288
E-mail: eric.chen@snapon.com
E-mail: esales.tw@snapon.com

Snap-on Tools Korea Ltd.

#505, Bldg 301, Bucheon Techno Park Block 3
365 Samjung-dong, OhJung-Gu
Bucheon City, GyeongGi-Do 421-809
Korea
Tel: +(8232) 326-7310
Fax: +(8232) 326-7312
e-mail: esales.kr@snapon.com

Snap-on Tools Private Limited

Head Office and North Region Office
6/2 Begumpur Khatola, 39 Milestone
NH-8
Gurgaon - 122 001, Haryana
India
Tel: +(91-124) 4599700
Fax: +(91-124) 4056866
e-mail: esales.in@snapon.com

Snap-on Tools Private Limited

Western Region Office (Mumbai)
Dilkap Chambers 404/406, 4th Floor
Fun Republic Lane, Nr. Bansali Engineering
Veera Desai Road, Andheri West
Mumbai, India
Tel: +(91-22) 67020909/67020400
Fax: +(91-22) 2673-0571
e-mail: esales.in@snapon.com

Snap-on Tools Private Limited

Southern Region Office (Bangalore)
B-327, 1st B Block AECS Layout
Opp. To Brooks Field, Kundalahalli
Bangalore - 560037
India
Tel: + (91-80) 6537-5197/98
Fax: +(91-80) 2854-0618
e-mail: esales.in@snapon.com

Snap-on/Sun de Mexico S.A. de C.V.

Avenida Gustavo Baz 166-B
Colonia la Escuela
Tlalneantla, Estado de Mexico
CP 54090 Mexico
Telephone: +(52) 55 50 10-3000
Fax: +(52) 55 5010-3025 or 5010-3026
e-mail: info@snapon.com.mx

Snap-on Tools Puerto Rico

9500 South Dadeland Blvd.
Tower South Office #601
Miami, FL 33156
Telephone: 1-(305)-670-1906
Fax: 1-(305)-670-1908
email: latin.america.caribbean.division@snapon.com

Snap-on South Africa (Pty) Ltd.

6 Hippo Park
12 Kubu Avenue
Riverhorse Valley
Durban 4051
South Africa
Telephone: +27 861 762 766
Fax: +27 861 762 767
e-mail: enquiries@snapon.co.za
Internet: www.snapon.co.za

Snap-on Tools of Canada Ltd.

Canadian Corporate Office
6500 Millcreek Drive
Mississauga, ON
L5N 2W6
Canada
Toll Free: 1-800-665-8665
Fax: 1- (905) 826-7800
Toll Free Fax: 1-800-730-0254
e-mail: canadacustomer@snapon.com
Internet: www.snapon.com/canada

Calgary Velocity & National Repair Centre

7403-48th Street S.E.
Calgary, Alberta T2C 4H6
Telephone: 1-403-720-0525
Toll Free: 1-800-263-8665
Fax: 1-403-720-0550
Toll Free Fax: 1-888-638-1111

Snap-on Canada - Industrial Sales Division

Snap-on Tools of Canada Ltd.
16775 Yonge Street Suite 300
Newmarket, ON
L3Y 8J4 Canada
Telephone Toll Free: 1- 888-451-8665
Toll Free Fax: 1-888-447-8665
Email: Canadaindustrial@snapon.com
Internet: www.snapon.com/canada

WARRANTY AND TRADEMARKS

Copyright © 2012 Snap-on Incorporated

General Inquiries: (262) 656-5200
All rights reserved. Printed in U.S.A.

Customer Care Center
Phone: (877) 762-7664
See pages 613-614 for International Offices

Warranty for Products

Snap-on Logistics Company, or its assigns, (Snap-on) warrants to customers who purchase products from authorized Snap-on distribution channels that Snap-on® brand products and Blue-Point® brand products will be free from defects in workmanship and materials for a duration described in each product's warranty code. The warranty duration depends upon the nature of the product. Prior to a product purchase, or if the product information for purchased product does not include a warranty code with the applicable duration, customer can obtain the product warranty code and warranty duration from a Snap-on franchisee or representative. If customer is not serviced by a Snap-on franchisee or representative, then the product warranty code and warranty duration may be obtained by contacting the Snap-on Customer Care Center via telephone at 877-762-7664 or e-mail nccsupport@snapon.com. Outside North America, contact the closest sales office shown on pages 645-646. Consumable products are warranted, at the time of sale, only against defects in workmanship or materials that prevent their use. Consumable products are goods reasonably expected to be used up or damaged during use, including but not limited to drill bits, saw blades, grinding discs, sanding discs, knife blades, files, O2 sensors and batteries. To the extent permitted by law, this warranty only extends to the original customer and cannot be transferred or assigned.

During the applicable duration of the warranty, at its option, Snap-on will repair or replace its products which fail to give satisfactory service due to defective workmanship or materials, or provide a refund by repaying or crediting customer with an amount equal to the purchase price of such products. Repair, replacement or refund shall be at the election and expense of Snap-on, and is customer's exclusive remedy in place of all other rights and remedies. Any products or parts replaced or for which Snap-on has provided a refund are the property of Snap-on and will not be returned.

To obtain warranty service, return products to a Snap-on franchisee or representative. For customers not serviced by a Snap-on franchisee or representative, contact the Snap-on Customer Care Center via telephone at 877-762-7664 or e-mail nccsupport@snapon.com. Outside North America, contact the closest sales office shown on pages 645-646. The following information will be required with customer's warranty request: (1) date and proof of purchase, (2) where customer purchased the product, (3) full name, (4) shipping address, (5) phone number, (6) e-mail address, and (7) item number(s) or approximate weight of return package. Warranty requests that do not include all the required information will not be processed. Once the warranty request is validated, the customer will be provided a RGA number and will be sent a shipping label either electronically thru e-mail or thru the U.S. mail, and must ship the product to Snap-on. Upon receipt of the product, the warranty claim will be reviewed and the product will be inspected. If the warranty request is found to be valid, the product will be repaired and returned to the customer or a replacement product or refund will be shipped to the customer. If the warranty claim is found to be invalid, the original product will be returned to the customer. By repairing or replacing a product, or providing a refund, Snap-on does not waive a claim that a product nevertheless has been subject to abnormal use.

If customer chooses not to (1) use a carrier that offers tracking or (2) insure or declare the full value of the product, customer will be responsible for any loss or damage to the product during shipping. Replacement or refund will not be issued unless a valid proof of delivery can be provided.

In addition to any limitations outlined in warranty codes provided with the product, Snap-on does NOT provide any warranty for (1) products labeled other than *Snap-on* or *Blue-Point* or (2) products subjected to abnormal use. Products that are not labeled *Snap-on* or *Blue-Point* are subject to the warranty provided by the manufacturers of those products and Snap-on will pass along any such warranties, to the extent that it is permitted to do so, but it is not responsible for warranty services or processing warranty claims.

Abnormal use includes misuse, accident, modification, unreasonable use, abuse, neglect, lack of maintenance, use in product related service, or use after the product is significantly worn. Abnormal use of tool storage units also includes, without limitation, situations when a unit is pulled using a mechanical vehicle, rolled over large drops, used in a highly corrosive environment, used as a step stool, modified with non-Snap-on parts, overloaded or modified in any way.

THE FOREGOING WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER EXPRESS, IMPLIED OR COLLATERAL, BY OPERATION OF LAW OR OTHERWISE, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Descriptions of product contained in this catalog are for the sole purpose of identifying product and shall not be construed as an express warranty.

LIMITATION OF LIABILITY. SNAP-ON AND ITS AFFILIATED COMPANIES AND THIRD PARTY SUPPLIERS SHALL NOT BE LIABLE FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL LOSSES, COSTS OR DAMAGES INCURRED BY CUSTOMER OR OTHERS, INCLUDING PERSONAL INJURY OR DEATH, DIRECTLY OR INDIRECTLY ARISING FROM THE SALE, HANDLING OR USE OF THE PRODUCTS, OR FROM ANY OTHER CAUSE WITH RESPECT TO THE PRODUCTS OR THE FOREGOING WARRANTY, WHETHER SUCH CLAIM IS BASED UPON BREACH OF CONTRACT, BREACH OF WARRANTY, STRICT LIABILITY IN TORT, NEGLIGENCE OR ANY OTHER LEGAL THEORY (INCLUDING WITHOUT LIMITATION, LOST PROFITS, REVENUES, ANTICIPATED SALES, BUSINESS OPPORTUNITIES, GOODWILL, OR INTERRUPTION OF BUSINESS OR OTHER INJURY OR DAMAGE).

To the extent allowed by applicable law, this warranty and all rights and obligations hereunder shall be governed by and construed in accordance with the laws of the State of Wisconsin, without reference to principles of conflicts of laws. The rights and obligations of the parties hereunder shall not be governed by the 1980 U.N. Convention on Contracts for the International Sale of Goods.

All parts of this warranty apply to the extent permitted by law and unless restricted or prohibited by law. You may have greater rights pursuant to the legislation of your jurisdiction. Any provision which is prohibited or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability but shall not affect the enforceability of such provision in any other jurisdiction.

Snap-on Incorporated
2801 80th Street
Kenosha, Wisconsin 53143

Trademarks

The following are trademarks, some registered in the United States and other countries, of Snap-on Incorporated:

Snap-on, *Blue-Point*, *BrakeKare™*, *Crud Thug™*, *Docker Locker®*, *D-TAC™*, *Dual 80®*, *ECO™ PLUS*, *Electrotork®*, *ETHOS®*, *Fast-Track®*, *Flank Drive®*, *Flank Drive Plus*, *FuelKare™*, *InPulse™*, *Instinct®*, *ISO-Ride®* and design, *KOOL KARE™ PLUS*, *Lock n Roll®*, *Loxocket®*, *MicroVAT™*, *Mitchell1®*, *MODIST™*, *PowerBank™*, *PowerCab™*, *PowerEdge™*, *PowerFlex™*, *PowerHouse™*, *PowerTop™*, *Scanner™*, *ShopKey®*, *ShopKeyLive™*, *Slots-N-Dots™*, *Smartsmoke®*, *Snap-on Racing®* and logo, *SOLUS PRO™*, *SOLUS*, *SOLUS Ultra*, *Talon Grip™*, *TechAngle®*, *TechLog™*, *Techmemory™*, *Techwrench®*, *TORQLOG®*, *TORQOMETER®*, *Torque Tester™*, *Training Solutions®*, *TransDrive™* logo, *TransDrive*, *TransKare™*, *Vantage PRO™*, *Versameter®*, *Versatest™*, *Versatorq®*, *Versatorq1®*, *VERUS®*, *THEBIS™*.

Listed below are some other trademarks which appear throughout this catalog. They are the sole property of the owners.

4Runner®, Accord®, ACR®, Aerostar®, ARO®, Astro®, Avalanche®, Beetle®, Bonneville®, Boxster®, Bravada®, Cadillac®, Camaro®, Camry®, Caprice®, Caravan®, Cayenne®, Cherokee®, Civic®, Corolla®, Corvette®, Crossfire®, Crown Victoria®, DeVille®, Durango®, Element®, Envoy®, EOS®, Escalade®, Escort®, Fiesta®, Grand Am®, Grand Cherokee®, Grand Prix®, HHR®, Highlander®, Hummer®, Intrepid®, ION®, Jetta®, Latch-on®, Magnum®, Malibu®, Maxima®, Monte Carlo®, Mustang®, Odyssey®, Panamera®, Passat®, Phillips®, Prelude®, Rabbit®, Ram®, Silverado®, Solstice®, Suburban®, Tahoe®, Tempo®, Thunderbird®, Torx®, Velcro®, Vibe®, Windstar®
All other marks are trademarks of their respective holders.

Your Safety Is Important To Us

Personal safety and the proper use of tools and equipment are reflected in safety statements found throughout this catalog. More safety precautions for these products are detailed on pages W1 to W4.

Using the right tool and using it properly for the job it is designed for are both very important. It will help to safeguard the user as well as the tools and equipment.

Important Notice

We reserve the right to make changes in design or construction at any time without incurring any obligation in incorporating such changes in tools or equipment previously sold. We also reserve the right to discontinue the manufacture or offering for sale through Snap-on franchisee or representatives of any tools or equipment at such time as we consider necessary. We cannot accept the responsibility for the results of using tools which have been abused or badly worn, such as punches and chisels mushroomed by hammer blows, or the incorrect use of tools, or tools repaired by others. This catalog is distributed by Snap-on Incorporated globally and not all items may be available in each country. For detailed information about the availability and pricing, please contact your local Snap-on representative.

Tool Dimension Accuracy

Dimensions shown in this catalog have been rounded to the nearest fractional size or nearest tenth millimeter and are not exact product specifications. Ask your Snap-on representative for product specifications if required.

ISO 9001 Certified

Snap-on's Quality Management System, including merchandised product procurement, is certified to ISO 9001

ISO 14001/OHSAS 18001 Certified

Snap-on facilities are guided by the Snap-on Environmental, Health and Safety Management System which is certified to ISO 14001 and OHSAS 18001.

These certifications demonstrate that Snap-on's Quality, Environmental, Health and Safety Management Systems conform to internationally recognized quality standards as verified by independent audits.



CONVERSION CHART

Showing Millimeter Sizes, Fractional and Decimal Inch Sizes, and Drill Number Sizes

Note: To convert from inches to millimeters, multiply by 25.4; to convert from millimeters to inches, multiply by 0.03937

M	DE	F	DN	M	DE	F	DN	M	DE	F	DN	M	DE	F	DN	M	DE	F	M	DE	F
0.10	0.0039			1.85	0.0728				0.1660		19	7.25	0.2854			13.49	0.5313	17/32	35.00	1.3780	
0.15	0.0059				0.0730		49	4.25	0.1673			7.30	0.2874			13.50	0.5315		36.00	1.4173	
0.20	0.0079			1.90	0.0748			4.30	0.1693				0.2900		L	13.89	0.5469	35/64	36.51	1.4375	1 7/16
0.25	0.0098				0.0760		48		0.1695		18	7.40	0.2913			14.00	0.5512		37.00	1.4567	
0.30	0.0118			1.95	0.0768			4.37	0.1719	11/64			0.2950		M	14.29	0.5625	9/16	38.00	1.4961	
	0.0135		80	1.98	0.0781	5/64			0.1730		17	7.50	0.2953			14.50	0.5709		38.10	1.5000	1 1/2
0.35	0.0138				0.0785		47	4.40	0.1732			7.54	0.2969	19/64		14.68	0.5781	37/64	39.00	1.5354	
	0.0145		79	2.00	0.0787				0.1770		16	7.60	0.2992			15.00	0.5906		39.69	1.5625	1 9/16
0.40	0.0156	1/64		2.05	0.0807			4.50	0.1772				0.3020		N	15.08	0.5938	19/32	40.00	1.5748	
0.40	0.0157				0.0810		46		0.1800		15	7.70	0.3031			15.48	0.6094	39/64	41.00	1.6142	
	0.0160		78		0.0820		45	4.60	0.1811			7.75	0.3051			15.50	0.6102		41.28	1.6250	1 5/8
0.45	0.0177			2.10	0.0827				0.1820		14	7.80	0.3071			15.88	0.6250	5/8	42.00	1.6535	
	0.0180		77	2.15	0.0846			4.70	0.1850		13	7.90	0.3110			16.00	0.6299		42.86	1.6875	1 11/16
0.50	0.0197				0.0860		44	4.75	0.1870			7.94	0.3125	5/16		16.27	0.6406	41/64	43.00	1.6929	
	0.0200		76	2.20	0.0866			4.76	0.1875	3/16		8.00	0.3150			16.50	0.6496		44.00	1.7323	
	0.0210		75	2.25	0.0886			4.80	0.1890		12		0.3160		O	16.67	0.6563	21/32	44.45	1.7500	1 3/4
0.55	0.0217				0.0890		43		0.1910		11	8.10	0.3189			17.00	0.6693		45.00	1.7717	
	0.0225		74	2.30	0.0906			4.90	0.1929			8.20	0.3228			17.07	0.6719	43/64	46.00	1.8110	
0.60	0.0236			2.35	0.0925				0.1935		10		0.3230		P	17.46	0.6875	11/16	46.04	1.8125	1 13/16
	0.0240		73		0.0935		42		0.1960		9	8.25	0.3248			17.50	0.6890		47.00	1.8504	
	0.0250		72	2.38	0.0938	3/32		5.00	0.1969			8.30	0.3268			17.86	0.7031	45/64	47.63	1.8750	1 7/8
0.65	0.0256			2.40	0.0945				0.1990		8	8.33	0.3281	21/64		18.00	0.7087		48.00	1.8898	
	0.0260		71		0.0960		41	5.10	0.2008			8.40	0.3307			18.26	0.7188	23/32	49.00	1.9291	
0.70	0.0276			2.45	0.0965				0.2010		7		0.3320		Q	18.50	0.7283		49.21	1.9375	1 15/16
	0.0280		70		0.0980		40	5.16	0.2031	13/64		8.50	0.3346			18.65	0.7344	47/64	50.00	1.9685	
	0.0292		69	2.50	0.0984				0.2040		6	8.60	0.3386			19.00	0.7480		50.80	2.0000	2
0.75	0.0295				0.0995		39	5.20	0.2047				0.3390		R	19.05	0.7500	3/4	51.00	2.0079	
	0.0310		68		0.1015		38		0.2055		5	8.70	0.3425			19.45	0.7656	49/64	52.00	2.0472	
0.79	0.0313	1/32		2.60	0.1024			5.25	0.2067			8.73	0.3438	11/32		19.50	0.7677		52.39	2.0625	2 1/16
0.80	0.0315				0.1040		37	5.30	0.2087			8.75	0.3445			19.84	0.7813	25/32	53.00	2.0866	
	0.0320		67	2.70	0.1063				0.2090		4	8.80	0.3465			20.00	0.7874		53.98	2.1250	2 1/8
	0.0330		66		0.1065		36	5.40	0.2126				0.3480		S	20.24	0.7969	51/64	54.00	2.1260	
0.85	0.0335			2.75	0.1083				0.2130		3	8.90	0.3504			20.50	0.8071		55.00	2.1654	
	0.0350		65	2.78	0.1094	7/64		5.50	0.2165			9.00	0.3543			20.64	0.8125	13/16	55.56	2.1875	2 3/16
0.90	0.0354				0.1100		35	5.56	0.2188	7/32			0.3580		T	21.00	0.8268		56.00	2.2047	
	0.0360		64	2.80	0.1102			5.60	0.2205			9.10	0.3583			21.03	0.8281	53/64	57.00	2.2441	
	0.0370		63		0.1110		34		0.2210		2	9.13	0.3594	23/64		21.43	0.8438	27/32	57.15	2.2500	2 1/4
0.95	0.0374				0.1130		33	5.70	0.2244			9.20	0.3622			21.50	0.8465		58.00	2.2835	
	0.0380		62	2.90	0.1142			5.75	0.2264			9.25	0.3642			21.83	0.8594	55/64	58.74	2.3125	2 5/16
	0.0390		61		0.1160		32		0.2280		1	9.30	0.3661			22.00	0.8661		59.00	2.3228	
1.00	0.0394			3.00	0.1181			5.80	0.2283				0.3680		U	22.23	0.8750	7/8	60.00	2.3622	
	0.0400		60		0.1200		31	5.90	0.2323			9.40	0.3701			22.50	0.8858		60.33	2.3750	2 3/8
	0.0410		59	3.10	0.1220				0.2340		A	9.50	0.3740			22.62	0.8906	57/64	61.00	2.4016	
1.05	0.0413			3.18	0.1250	1/8		5.95	0.2344	15/64		9.53	0.3750	3/8		23.00	0.9055		61.91	2.4375	2 7/16
	0.0420		58	3.20	0.1260			6.00	0.2362				0.3770		V	23.02	0.9063	29/32	62.00	2.4409	
	0.0430		57	3.25	0.1280				0.2380		B	9.60	0.3780			23.42	0.9219	59/64	63.00	2.4803	
1.10	0.0433				0.1285		30	6.10	0.2402			9.70	0.3819			23.50	0.9252		63.50	2.5000	2 1/2
1.15	0.0453			3.30	0.1299				0.2420		C	9.75	0.3838			23.81	0.9375	15/16	64.00	2.5197	
	0.0465		56	3.40	0.1339			6.20	0.2441			9.80	0.3858			24.00	0.9449		65.00	2.5591	
1.19	0.0469	3/64			0.1360		29	6.25	0.2460				0.3860		W	24.21	0.9531	61/64	65.09	2.5625	2 9/16
1.20	0.0472			3.50	0.1378			6.30	0.2480			9.90	0.3898			24.50	0.9646		66.00	2.5984	
1.25	0.0492				0.1405		28	6.35	0.2500	1/4	E	9.92	0.3906	25/64		24.61	0.9688	31/32	66.68	2.6250	2 5/8
1.30	0.0512			3.57	0.1406	9/64		6.40	0.2520			10.00	0.3937			25.00	0.9843		67.00	2.6378	
	0.0520		55	3.60	0.1417			6.50	0.2559				0.3970		X	25.00	0.9844	63/64	68.00	2.6772	
1.35	0.0531				0.1440		27		0.2570		F		0.4040		Y	25.40	1.0000	1	68.26	2.6875	2 11/16
	0.0550		54	3.70	0.1457			6.60	0.2598			10.32	0.4063	13/32		26.00	1.0236		69.00	2.7165	
1.40	0.0551				0.1470		26		0.2610		G		0.4130		Z	26.99	1.0625	1 1/16	69.85	2.7500	2 3/4
1.45	0.0571			3.75	0.1476			6.70	0.2638			10.50	0.4134			27.00	1.0630		70.00	2.7559	
1.50	0.0591				0.1495		25	6.75	0.2656	17/64		10.72	0.4219	27/64		28.00	1.1024		71.00	2.7953	
	0.0595		53	3.80	0.1496			6.75	0.2657			11.00	0.4331			28.58	1.1250	1 1/8	71.44	2.8125	2 13/16
1.55	0.0610				0.1520		24		0.2660		H	11.11	0.4375	7/16		29.00	1.1417		72.00	2.8346	
1.59	0.0625	1/16		3.90	0.1535			6.80	0.2677			11.50	0.4528			30.00	1.1811		73.00	2.8740	
1.60	0.0630				0.1540		23	6.90	0.2717			11.51	0.4531	29/64		30.16	1.1875	1 3/16	73.03	2.8750	2 7/8
	0.0635		52	3.97	0.1563	5/32			0.2720		I	11.91	0.4688	15/32		31.00	1.2205		74.00	2.9134	
1.65	0.0650				0.1570		22	7.00	0.2756			12.00	0.4724			31.75	1.2500	1 1/4	74.61	2.9375	2 15/16
1.70	0.0669			4.00	0.1575				0.2770		J	12.30	0.4844	31/64		32.00	1.2598		75.00	2.9528	
	0.0670		51		0.1590		21	7.10	0.2795			12.50	0.4921			33.00	1.2992		76.00	2.9921	
1.75	0.0689				0.1610		20		0.2810		K	12.70	0.5000	1/2		33.34	1.3125	1 5/16	76.20	3.0000	3
	0.0700		50	4.10	0.1614			7.14	0.2813	9/32		13.00	0.5118			34.00	1.3386				
1.80	0.0709			4.20	0.1654			7.20	0.2835				0.5156		33/64	34.93	1.3750	1 3/8			

M = Millimeters, DE = Decimal Equivalents, F = Fractional, DN = Drill Number/Letter



ARE YOU READY TO MOVE FROM THE GARAGE TO THE DRIVER'S SEAT?

Take control of your future, with a future at Snap-on. You know Snap-on as the best tool brand in the world. Did you know your expertise and understanding of our business might make you the ideal Snap-on franchise owner? You've already got a head start. And if you've got what it takes to run your own business, now is the time to learn more about the Snap-on opportunity:

- Top tool franchise and ranked sixth among franchises globally by Franchise Direct
- Extensive training and support
- Most in-demand product in the category
- No real estate investment
- Proven franchise model
- Financing available through Snap-on Credit
- Incentives for honorably discharged veterans

BE IN BUSINESS WITH THE BESTSM

Proud member of VetFran

SnaponFranchise.com

1-877-476-2766



SCAN TO LEARN
ABOUT THE LATEST
INNOVATIONS FROM
SNAP-ON.

**HAND TOOLS
POWER TOOLS
TOOL STORAGE
DIAGNOSTICS
SHOP & TECH**

Snap-on[®]



To learn more about Snap-on, talk to your Snap-on representative or visit www.snapon.com

Snap-on is a trademark of Snap-on Incorporated. © 2012 Snap-on Incorporated. All rights reserved.

Printed in the U.S.A.