



HS5A



HS151



HSG319



HSG325

## Hacksaws

### HS5A Miniature Hacksaw

- Designed for 10" (250 mm) blades
- 8-1/4" frame fits in limited-access areas
- Includes (1) blade

### HS151 Junior Frame Hacksaw

- Designed for 6" blades
- 9-1/2" long
- Includes (1) blade

### HSG319 Bi-Mold Soft Grip 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
- Includes (1) blade

### HSG325 Soft Grip Professional Hacksaw

- Ergonomic front grip for increased comfort and control
- Thermoplastic comfort grip handle
- Spring-loaded tensioning mechanism for quick blade changes
- Dual blade positioning, for normal flush cutting or 55° angle
- High blade tension for straighter, more accurate and faster cuts
- Includes (1) 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 (TPI)
HSBM1018B	10	18
HSBM1024B	10	24
HSBM1032B	10	32
HSBM1214B	12	14
HSBM1218B	12	18
HSBM1224B	12	24
HSBM1232B	12	32



HSBM1018B

## Quick Cutter Handsaws

- 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 kit bag

### HS50 Quick Cutter Hand Saw

- Includes: HS14X1, HS18X1, HS24X1 and storage pouch



HS50

## LANDSCAPE TOOLS

## Pruning Tools

### PRN75SFS Folding Pruning Saw

- General-purpose folding saw for cutting wood or plastics
- Two-component plastic handle for a firm grip
- Blade is specially coated for low-friction and rust protection
- Blade locks in both open and closed position



PRN75SFS



- Do not use chipped, mushroomed or cracked hammers.
- Strike squarely; avoid glancing blows.
- Keep away from children.

- † These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.
- Read Safety Precautions on pages W1-W4

SCISSORS



SHEARS1BK



SHEARS1RD



SHEARS1-SH

Scissors

**SHEARS1BK Snap-on® Exclusive Shears**

**SHEARS1RD Snap-on® Exclusive Shears**

- Cuts leather, cloth, plastic, rubber, cardboard, gasket material, rope and many other materials
- Bottle opener and nutcracker also incorporated into the design
- Stainless steel construction
- Easy to take apart for cleaning and is dishwasher safe

**SHEARS1-SH Snap-on® Leather Sheath**

- Made of high quality leather with Snap-on® logo embossed on the front
- Designed specifically for the Snap-on® exclusive SHEARS1RD and SHEARSBK
- Made in USA

Multi-Tools

**SMT97R Snap-on® Multi-Tool**



SMT97R

- One-hand operation allow professionals to quickly address problems at hand
- Snap-on® exclusive red Cerakote-finished handles for superior wear resistance
- Enhanced heavy-duty locking mechanism
- Proudly made in the USA by Gerber®, the industry leader in multi-tools
- Rotating carbide wire cutters and strippers can be rotated as the edge wears, and replaced when a fresh set is needed
- Replaceable Remgrit® blade is designed to be able to cut through extremely hard materials
- Extra-large partially serrated blade is ideal for cutting open packages and other items around the shop
- Tools are all black-oxide coated, providing superior corrosion resistance
- Complete listing of tools includes: pliers, carbide wire cutter, scissors, bottle opener, ruler stamped-in-handle, PHILLIPS®/flat head drivers, fine/coarse files, etc.
- Snap-on® logo is engraved into the handle and comes with a Snap-on® branded sheath (SEKG94-SH)

CUTTING: KNIVES



KER1600SO

Liner Lock Knives

**KER1600SO Lockback Snap-on® Logo Chive Plain Blade Knife**

- Bead-blasted stainless steel handle with Snap-on® logo
- Removable pocket clip
- 1-15/16" stainless steel straight-edge blade
- 1.9 oz



SEK45R



SEK45BLK

SEK45 Series Knives

**SEK45R Compact Folding Lockback Knife**

**SEK45BLK Compact Folding Lockback Knife**

- Titanium coated 440 stainless steel blade
- Ambidextrous thumbnail window on blade spine
- Composite handle with lanyard eyelet provides easy attachment to any keychain ring
- Ideal for everyday pocket carry
- 4.57" long in open position, 2.83" closed, 1.75" blade
- Weighs less than 1 oz

**SEKC60 Series Knives**

**SEKC60FASR Scalpel Pocket Knife**

**SEKC60FASK Scalpel Pocket Knife**

**SEKC60FASB Scalpel Pocket Knife**

- IKBS ball bearing system to open and fold the knife
- Anodized aluminum handle with brushed finish
- Deep pocket carry clip helps it stay low-profile in your pocket
- Flat-grind beveled edge
- Snap-on® exclusive Ken Onion® design
- Lifetime warranty



**SEKC60FASR**



**SEKC60FASK**



**SEKC60FASB**

**Liner Lock Knives**

**KER1620RDSO Liner Lock Scallion® Straight-Edge Blade Knife**

- Durable 6061-T6 anodized red aluminum handle with Snap-on® logo
- Stainless steel liners
- Safety tip lock
- Removable pocket clip
- 2-1/4" stainless steel straight-edge blade
- 2.3 oz



**KER1620RDSO**

**KER1620OLSO Liner Lock Scallion® Olive with Snap-on® Logo**

- Blade is made of 420HC steel with a bead-blasted finish
- Handle is made of 6061-T6 anodized aluminum
- Knife opens with a flipper
- Liner lock with tip lock
- Single-position pocket clip
- Made in USA



**KER1620OLSO**

**KER1660SO Liner Lock Kershaw® Leek® with Snap-on® Logo**

**KER1660RDSO Liner Lock Kershaw® Leek® with Snap-on® Logo**

**KER1660ORSO Liner Lock Kershaw® Leek® with Snap-on® Logo**

- Blade is made of Sandvik® 14C28N steel with a bead-blasted finish
- Handle is made of 410 steel with a bead-blasted finish
- Knife opens with a flipper
- Frame lock with tip lock
- Reversible pocket clip
- Made in USA



**KER1660SO**



**KER1660RDSO**



**KER1660ORSO**

**KER1660CKTSO Liner Lock Leek® Straight-Edge Blade Knife**

- SpeedSafe® technology provides assisted opening
- 3" stainless steel straight-edge blade

**KER1660CBSO Liner Lock Leek® Composite Straight-Edge Blade Knife**

- 3" stainless steel straight-edge blade



**KER1660CKTSO**



**KER1660CBSO**



• Keep away from children.  
• Read Safety Precautions on pages W1-W4

## CUTTING: KNIVES



SEKC69AGWR



SEKC69AGWK



SEKC70AAKR



SEKC70AAKK



SEKC75FPSK



SEKC76AAWK



SEKC78ASWK



SEKC78AGWR



SEKC79ASWK

## Specialty Knives

**SEKC69AGWR Pilar® Red Razor Edge Large****SEKC69AGWK Pilar® Black Razor Edge Large**

- Assisted opening system activated by frame lock with flipper
- G10 textured handle for superior grip
- Black oxide razor edge blade finish on 8Cr13MoV stainless steel
- Deep finger groove for positive hold
- Deep pocket carry

**SEKC70AAKR Slacker™ Compact****SEKC70AAKK Slacker™ Compact**

- Snap-on® Exclusive
- Assisted opening for fast blade deployment
- Easy to sharpen: High carbon stainless steel blade takes an edge well
- Enhanced protection: Black stonewash is durable and ages well
- Easy closing: Liner lock can be easily closed with one hand

**SEKC75FPSK Field Strip Snap-on® Knife**

- Snap-on® exclusive knife features “Field Strip” technology, in which the entire knife can be taken apart for cleaning and quick maintenance without any tools
- Bayonet lug-style flipper sets off the smooth open action of the stainless steel, drop-point blade
- Designed by world-renowned knife craftsman, Ken Onion

**SEKC76AAWK Razel™ GT Assisted Opening Folding Knife**

- Assisted opening; flipper deploys blade quickly
- IKBS™ ball bearing pivot deploys blade smoothly
- Chisel blade useful for push cutting or scraping
- Strong and lightweight aluminum handle combines strength with minimal weight
- Liner lock allows easy one-handed closing
- Lanyard hole for keychain or fob

**SEKC78ASWK Ripple Stonewash SS, Small**

- Assisted opening system activated by liner lock with flipper
- Black stonewash stainless steel handle for durability
- Deep pocket carry
- Unique Ken Onion® design, a Snap-on® exclusive

**SEKC78AGWR Curfew™ Assisted Opening Folding Knife**

- Assisted opening; flipper deploys blade quickly
- IKBS™ ball bearing pivot deploys blade smoothly
- Easy-to-sharpen, high-carbon stainless steel blade
- Aluminum bolster with G10 handle
- Liner lock allows easy one-handed closing

**SEKC79ASWK Ripple Stonewash SS, Large**

- Assisted opening system activated by liner lock with flipper
- Black stonewash stainless steel handle for durability
- Deep pocket carry
- Unique Ken Onion® design, a Snap-on® exclusive

## Specialty Knives

### SEKC82ANWK LCK+ Assisted Opening Folding Knife

- Assisted opening; flipper deploys blade quickly
- IKBS™ ball bearing pivot deploys blade smoothly
- Easy-to-sharpen, high-carbon stainless steel blade
- Strong and lightweight glass-reinforced nylon handle is durable and lightweight
- Liner lock allows easy one-handed closing



SEKC82ANWK

### SEKC83AMNK HI JINX™ Black

- Snap-on® exclusive
- Assisted opening for fast blade deployment
- Easy to sharpen: high carbon stainless steel blade takes an edge well
- Enhanced protection: black stonewash is durable and ages well
- Easy closing: liner lock can be easily closed with one hand



SEKC83AMNK

### SEKC83AGWK Tueto™ Assisted Opening Folding Knife

- Assisted Opening; flipper deploys blade quickly
- IKBS™ ball bearing pivot deploys blade smoothly
- Easy-to-sharpen, high-carbon stainless steel blade
- G10 handle provides grip in all conditions
- Liner lock allows easy one-handed closing



SEKC83AGWK

### SEKC83AGSK Motosa

- Snap-on® exclusive
- Assisted opening for fast blade deployment
- Easy to sharpen: high carbon stainless steel blade takes an edge well
- Minimizes reflectivity: bead blast finish reduces reflection
- Easy closing: liner lock can be easily closed with one hand



SEKC83AGSK

### SEKC84AGWR Stylus™ Assisted Opening Folding Knife

- Assisted opening; flipper deploys blade quickly
- IKBS™ ball bearing pivot deploys blade smoothly
- Easy-to-sharpen, high-carbon stainless steel blade
- G10 handle provides grip in all conditions
- Liner lock allows easy one-handed closing
- Pocket clip provides secure carry



SEKC84AGWR

### SEKC86XNKK Hunting Knife

- Exclusive Snap-on® designed fixed blade hunting knife
- Designed by well known hunting and fishing guide, Russ Kommer
- Blade made of SK5 High Carbon Steel for excellent edge retention
- Powder coated blade for rust prevention
- Textured handle for positive grip in wet conditions



SEKC86XNKK

## S084 Series Knives

### S084BLK HYPE Knife

### S084OL HYPE Knife

- SpeedSafe® Assisted Opening enables smooth, easy one-hand opening
- Trac-Tec grip-in-handle is ideal for working in wet situations
- Deep carry clip allows knife to ride low in the pocket, making it less likely to fall out and keeps a low profile of visibility
- Clip can be changed for left-hand pocket carry



S084BLK



S084OL



- Keep away from children.
- Read Safety Precautions on pages W1-W4

**CUTTING: KNIVES**



KER1620NBSO



KER1670TBLKT



KER1670BLKSO



KER1620FLSO



KER1670RDBTS



KER1670BLK



KER1620



KER1670BLKST



KER1870RDSO

**Liner Lock Knives**

**KER1620NBSO Lockback Scallion® Navy Blue with Snap-on® Logo**

**KER1620FLSO Lockback Scallion® Frame with Snap-on® Logo**

**KER1620 Lockback Scallion® Black Handle Knife**

- Blade is made of 420HC steel with a bead-blasted finish
- Handle is made of 6061-T6 anodized aluminum
- Knife opens with a flipper
- Liner lock with tip lock
- Single-position pocket clip
- Made in USA

**KER1670TBLKT Lockback Blur Black Tanto Serrated with Snap-on® Logo**

**KER1670RDBLKSTSO† Lockback Blur Red/Black Serrated with Snap-on® Logo**

**KER1670BLKST Lockback Blur Partially Serrated Blade Knife**

**KER1670BLKSO Lockback Blur Knife Black with Snap-on® Logo**

**KER1670BLK Lockback Blur Straight-Edge Blade Knife**

- Blade is made of Sandvik® 14C28N with a DLC coating
- Handle is made of 6061-T6 anodized aluminum with Trac-Tec inserts
- Opens with thumb stud
- Inset liner lock
- Reversible pocket clip
- Made in USA

**KER1870RDSO Knockout Knife with Snap-on® Logo**

- Blade is made of Sandvik® 14C28N steel with a stonewashed finish
- Handle is made of 6061-T6 anodized aluminum
- Opens with a flipper or thumb stud
- Sub-frame lock
- 4-position lock deep-carry pocket clip
- Made in USA

**CUTTING: UTILITY KNIVES**



S086RD



S086BRNZ



S086OL

**S086 Series Knives**

**S086RD Gasket® Knife, Red**

**S086BRNZ Gasket® Knife, Bronze**

**S086OL Gasket® Knife, Olive**

- SpeedSafe® assisted opening enables smooth, easy one-hand opening
- Blade is made of black DLC-coated N690 steel
- Handle is made of T6061-T6 anodized aluminum
- Trac-Tec grip in the handle is ideal for working in wet situations
- Right- and left-handed carry
- Lanyard hole at end of the handle
- Available in six colors Red, Black, Blue, Bronze, Olive, Tan
- Knife length (closed): 4"; blade length: 2-5/8"
- Made in the USA



YA580A



YA581A

## Multipurpose Cutters (Blue-Point®)

### YA580A Multipurpose Cutter (Blue-Point®)

- Auto-locking, fully retractable blade
- Black metal body with a blue cap and pocket clip
- Includes (1) premium steel 13-point snap blade
- Length is 5-3/8"
- Uses YA580A-1 replacement blades

### YA580A-1 Multipurpose Cutter Replacement Blades (5 pk) (Blue-Point®)

- Individual break-off replacement blades for the YA580A and YA584A multipurpose cutters

### YA581A Multipurpose Cutter (Blue-Point®)

- Includes (3) blades with eight snap-off points
- Minimum blade wobble
- Fully retractable

### YA581A-1 Multipurpose Cutter Replacement Blades (10 pk) (Blue-Point®)

- Replacement blades for YA581A



KER2535

SCKS2



LBUK1

UKBU10



SCKS3

SCKS3

## Sharpening Kits

### KER2535 Blade Sharpener (Blue-Point®)

- Impregnated with 600 grit diamond coating bonded with nickel plating to a lightweight tube
- Excellent sharpener for the repair of extremely dull blades
- Length is 8-1/2" (20.3 cm)
- Sheath length is 5-1/2" (12.7 cm)

### SCKS2 Snap-on® Folding Sharpener

- Two-position sharpening rod made of steel and coated with Carborundum
- Ceramic sharpening plate
- Tungsten Carbide inserts
- Nail nick for easy opening
- Button lock for closing
- Durable and lightweight
- Textured injection-molded handle for exceptional grip

### SCKS3 Veff Kitchen Sharpener

- Ceramic rods are able to be angled for easy knife sharpening
- Rods can be angled at 15°, 20°, or 25° to accommodate multiple knife styles and sizes
- Stable wood platform with Snap-on® logo also doubles as storage container for ceramic rods
- Snap-on® exclusive product designed by Tom Veff

### SCKS3-CR2 Replacement Ceramic Rods

- Replacement ceramic rods for use with the SCKS3 Veff Kitchen Sharpener

## Utility Knives

### LBUK1 Lockback Utility Knife (Blue-Point®)

- Folding lockback blade, hardwood handle with belt clip and thumb stud for one-hand opening
- Includes utility knife and leather pouch plus (10) replacement blades

### UTK100SB Auto Retractable Utility Knife

- Auto retracting
- Quick-release spring-loaded handle provides fast, sure blade changes
- Rubber grip for comfort and control
- Includes one safety point two-notch blade

### UTK100 Retractable 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
- Three blade positions: open, half closed and closed
- Blade storage for up to five blades in the handle
- Lightweight anodized aluminum body for durability—thin design for comfort

### UTK150 Auto-Loading Utility Knife

- Exposed blade is easily removed or reversed with the push of a button
- New blade is auto loaded from five-blade magazine
- Cushioned handle provides comfort and control
- Three blade positions: 1" and 1/4" exposures, and closed
- Uses standard two-notch replacement blades

### UKBU50PK Double-Point Blades (50 pk)

- Two-notch double-point blades
- Dispenser ejects one blade at a time
- Blade guard in the ejector
- Use with UTK100, UTK100SB, UTK150, LBUK1 and LBUK2 utility knives

### UKBU10 Double-Point Utility Knife Blades (10 pk)



• Keep away from children.

†These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.

• Read Safety Precautions on pages W1-W4



## Miniature Files/Ergonomic Handle

### SGFMN106 6 pc Soft Grip Handle Miniature File Set

- Includes (6) files in a vinyl storage pouch
- Ergonomic nonslip grip prevents the hand from slipping onto the file blade
- Soft, textured surface for excellent grip
- Excellent protection on the shoulder and tang of the file
- Symmetrical handles provide the same level of comfort on both sides
- Files have a hole for hanging
- Use for filing narrow grooves and passages, concave and flat surfaces, holes and internal corners



SGFMN106

#### Colors Available



Red Orange Green  
O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS.

Stock No.	Description	
SGF4W	Warding	•
SGF4T	Triangular, Slim Taper	•
SGF4SQ	Square	•
SGF4R	Round	•
SGF4MA	Hand	•
SGF4HR	Half-Round	•



HBFN120B

## Swiss Pattern Needle Files

Stock No.	Description	
5NTSC	Three Square Swiss Pattern Needle File	•
5NSQB	Square Swiss Pattern Needle File	•
5NSB	Slitting Swiss Pattern Needle File	•
5NRB	Round Swiss Pattern Needle File	•
5NMB	Marking Swiss Pattern Needle File	•
5NKB	Knife Swiss Pattern Needle File	•
5NJB	Joint Swiss Pattern Needle File	•
5NHRB	Half Round Swiss Pattern Needle File	•
5NFB	Flat Swiss Pattern Needle File	•
5NEB	Equaling Swiss Pattern Needle File	•
5NCB	Crossing Swiss Pattern Needle File	•
5NBB	Barrette Swiss Pattern Needle File	•
HF611A	Plastic File Handle	•

### HBFN120B Swiss Pattern Miniature File Set

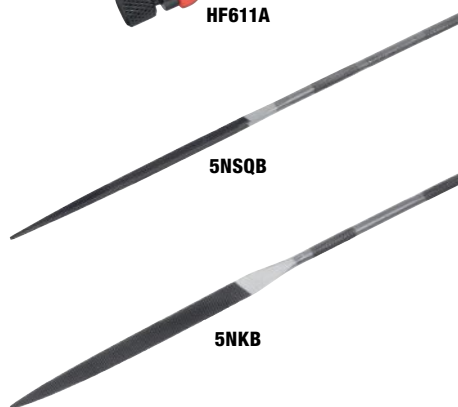
- Offers a wide array of file patterns and shapes to cover most fine applications
- Comfortable handle with collet allows full interchangeability
- Blade is 5-1/2" long
- Includes (1 ea) 5NBB Barrette File, 5NCB Crossing File, 5NEB Equaling File, 5NFB Flat File, 5NHRB Half Round File, 5NJB Joint File, 5NKB Knife File, 5NMB Marking File, 5NRB Round File, 5NSB Slitting File, 5NSQB Square File, 5NTSC Three Square File, HF611A Handle and instructions in a vinyl pouch

### HF611A Plastic File Handle

- Plastic screwdriver collet-style handle for holding individual files in the HBFN120B Set



HF611A



5NSQB

5NKB

- |       |            |       |            |
|-------|------------|-------|------------|
| 5NRB  | ● Round    | 5NTSC | ▲ 3-Square |
| 5NHRB | ◐ Half Rd. | 5NEB  | ▬ Equaling |
| 5NFB  | ▬ Flat     | 5NBB  | ▴ Barrette |
| 5NCB  | ● Crossing | 5NJB  | ⊖ Joint    |
| 5NKB  | ◄ Knife    | 5NSB  | ◊ Slitting |
| 5NSQB | ■ Square   | 5NMB  | ◐ Marking  |



• Read Safety Precautions on pages W1-W4

## FILES



6T

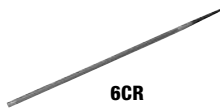
### Three Square Files

#### 10T 10" Long Three Square File

- 10" long, 9-1/2" cut length

#### 6T 6" Three Square File

- 6" long, 5-1/2" cut length



6CR

### Chain Saw Files

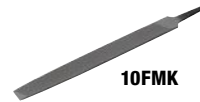
#### 6CR 6" Single Cut Chain Saw File

- 6" long, 5/32-9/64" dia

- Uses HF611A file handle

#### 8CR 8" Single Cut Chain Saw File

- 8" long, 7/32-5/32" dia



10FMK

### Multi-Cut Flat File

#### 10FMK Multi-Cut Flat File

- 10" long

- Useful for all flat filing; high removal rate with smooth finish on most materials

## ACCESSORIES



SGHF614BR

### 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	Thread Size
SGHF614BR*	4MA, 6CR, 6R, 6T, 6MA, 6HR, 8CR, 8R, 6SQA	1/4-28
SGHF615BR*	8T, 8MA, 8HR, 10R, 10SQA	5/16-24
SGHF616BR*	10T, 10MA, 10HR, 12R	3/8-24
SGHF617BR	12MA, 12HR	3/8-24

### Colors Available



\* R O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS.



GA98A

### Plastic Adjustable Jaw Handle

#### GA98A Plastic Adjustable Jaw File Handle (Blue-Point®)

- Provides a large, comfortable grip for all bastard cut files
- Adjustable jaws grip the file so it cannot turn
- Used on files 4-16" long
- 4-1/2" long, 1" dia., 3/8" maximum opening



GA616

### Wooden Twist-On Handles (Blue-Point®)

- Wooden twist-on handles with case hardened, threaded-steel inserts

Stock No.	Length, inches	For Files
GA613	4	4MA, 8CR, 6R
GA614	4	6T, 6MA, 6HR, 8R
GA615	4-1/2	8T, 8MA, 8HR, 10R
GA616	4-1/2	10T, 10MA, 10HR, 12R
GA617	5	12MA, 12HR
GA618	5	14MA, 16MA



YA337A

### File Brushes

#### YA337A File Cleaner Brush (Blue-Point®)

- Bristle area of 3-1/2 x 1-1/2" with .013" (33 gauge) wire
- Wooden handle
- 7-1/2" long



PKNG90

### Large Surface Scrapers

#### PKNG90 Glass/Acrylic Large Scraper

- For use on glass and acrylic surfaces
- Large handle for an easy grip
- Orange color visually differentiates from black glass-filled nylon products
- Ideal for removing dirt/debris, windshield decals, adhesive mounts for mirrors, dealer stickers, tree sap, algae from fiberglass boats and window tinting



PKN90

#### PKN90 Non-Marring Large Scraper

- Glass-reinforced nylon offers a great blend of flexibility and strength
- Non-marring composite material will not scratch soft metals, paint or composites
- Ideal for use on cylinder blocks or other large gasket mating surfaces
- Removes corrosion on flat metals (aluminum, steel, etc.) with suitable etch cleaners and rust removal solutions, primer preparation and cleaning solvents
- Can be used with suitable chemicals, paint coatings, gel coats, etc.

## 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 a secure grip when striking
- Can be used as a chisel or scraper

Stock No.	Description	Blade Width, inches (mm)	Set Contains:
PKNC050	Single Bevel	1/2 (13)	•
PKNC075	Single Bevel	3/4 (19)	•
PKNC075C2	Dual Bevel	3/4 (19)	•
PKNC125C2	Dual Bevel	1-1/4 (32)	•
PKNC150	Single Bevel	1-1/2 (38)	•
PKNC200	Single Bevel	2 (51)	•



PKNC300



PKNC301



PKNC125C2

### PKNC125C2 Dual Bevel Striking Scraper

- Dual bevel design for two distinct blade lengths
- 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 a secure grip when striking

## Non-Marring Scrapers

- 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
- Glass-reinforced nylon provides strength
- Lightweight and resistant to most automotive fluids
- Useable with hammers (block end/tap into position)
- Avoid scratching or gouging of soft materials

Stock No.	Blade Style	Blade Width, inches (mm)	Set Contains:
PKN1	Straight Blade	7/8 (22)	•
PKN2	Straight Blade	1-1/4 (32)	•
PKN3	Curved Blade	1-1/8 (29)	•
PKN4	Angle Blade	3/4 (19)	•
PKN5	Curved Blade	5/8 (16)	•



PKN500



PKN3

## Rigid Carbon Scrapers

- 1/4" square shanks are flared to form scraping edge
- Classic screwdriver-type handle

Stock No.	Length, inches (mm)	Blade Width, inches (mm)	Set Contains:
CSA8C	7-5/8 (194)	7/8 (22)	•
CSA12C	12-7/8 (327)	1 (25)	•
CSA14C	14-1/8 (356)	1-1/2 (38)	•

Includes plastic tray

CSA300AR\*

**Colors Available**

Red Orange Green Black

\* R O G

ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS.



CSA300AR



CSA12C

## Knife Blade Scrapers (Blue-Point®)

- Remove gaskets, sealers and other materials
- Blade edge is designed to work effectively in both push and pull directions
- Stainless steel blades for durability
- Polished blades clean up easily
- Composite handles feature a contour thumb stop and wide hilt for precise control

Stock No.	Blade Length, inches (mm)	Blade Style	Length, inches (mm)	Set Contains:
US710	3-3/8 (85)	Spoon	8 (203)	•
US711	2-1/2 (64)	Chisel Tip	7-1/8 (181)	•
US712	2-1/8 (54)	Oyster	6-3/4 (171)	•



US710



- Keep away from children.
- Read Safety Precautions on pages W1-W4

# SCRAPERS AND PUTTY KNIVES



## Non-Marring Tools

Stock No.	Description	Blade Width, inches (mm)	Set Contains:
PBN10	90° L Non-Marring Scraper	5/8 (16)	•
PBN11	Narrow Wedge Non-Marring Scraper	5/8 (16)	•
PBN14	Narrow Point Non-Marring Scraper	5/8 (16)	•
PKN7	Curve Tube Blade Non-Marring Scraper	5/8 (16)	•
PKN8	45° Non-Marring Cutter/Scraper	—	
PKN9	3 mm Narrow Non-Marring Scraper	—	
PKN10	Large Bill-Nose Scraper	1 (25)	
PKN12	Large Diamond-Head Non-Marring Scraper	1-1/4 (32)	
PKN13	Large 2" Non-Marring Scraper	1-3/8 (35)	
PBN12	Curve Cup Non-Marring Pry Tool	5/8 (16)	•
PBN15	90° Pry Tool	1-1/4 (32)	
PPK15	Non-Marring Pick	—	•
PPK20	Small Non-Marring Hook	—	•
PPK25	Large Non-Marring Hook	—	•

\*Includes storage pouch

## Brass Putty Knives/Scrapers (Blue-Point®)

- Spring-tempered solid-brass blades are non-marring, non-sparking, non-magnetic and non-corrosive
- Soft molded rubber handles provide a sure grip and are resistant to most solvents
- Flared neck design helps protect against hand slipping during use
- Stiff blade style



PKB500A

Stock No.	Blade Style	Edge	Blade Length, inches (mm)	Blade Width, inches (mm)	Set Contains:
PKB500A <sup>‡</sup>	Stiff	Straight	3-1/2 (89)	2 (51)	•
PKB52A <sup>‡</sup>	Stiff	Straight	3-19/32 (91)	1-1/4 (32)	•
PKB53A <sup>‡</sup>	Stiff	Single Bevel	3-19/32 (91)	1-1/4 (32)	•

## Putty Knives/Scrapers (Blue-Point®)

- Full-length steel blades for strength and durability
- Soft molded rubber handles provide a sure grip and are resistant to most solvents



PK500A

Stock No.	Blade Style	Edge	Blade Length, inches (mm)	Blade Width, inches (mm)	Set Contains:
PK50A	Flexible	Straight	3-1/2 (89)	2 (51)	•
PK52A	Flexible	Straight	3-19/32 (91)	1-1/4 (32)	•
PK53A	Stiff Chisel	Single Bevel	3-19/32 (91)	1-1/4 (32)	•

## Walnut Handle 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



PKWHD53A

Stock No.	Blade Style	Edge	Blade Length, inches (mm)	Blade Width, inches (mm)	Set Contains:
PKWSS53A	Straight	Chisel	2-3/4 (70)	1-1/4 (32)	•
PKWLR53A	Straight	Chisel	5-1/2 (140)	1-1/4 (32)	•
PKWBS53A	Angled	Chisel	3-3/8 (86)	1-1/4 (32)	•

## Maple Handle Putty Knife (Blue-Point®)

- Mirror-finish hardened-steel blade extends through the hardwood handle, solidly riveted for durability
- Maple handle has a metal bolster where the handle meets the blade



PK23A

Stock No.	Blade Style	Edge	Blade Width, inches (mm)	Handle Length, inches (mm)
PK23A	Heavy Chisel	Single Bevel	1-1/4 (32)	3-7/8 (98)



## Scrapers

### MS400A 4" Compact Scraper (Blue-Point®)

- Removes stickers, molding paint and decals
- Used with standard, single-edge steel or plastic razor blades
- Quick and easy blade changes
- Angled head provides maximum leverage

### MS800 8" Standard Scraper (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

### MS1300 13" Long Scraper (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

### MS3000 Scraper Set (Blue-Point®)

- Includes MS400, MS800, MS1300 and MSRPACK5 in a storage case

### CS1 Flexible Wire Carbon Scraper (Blue-Point®)

- (10) blades made of oil-tempered spring steel
- Sliding ferrule is used to adjust to the required flexibility

### PK70 Multipurpose Scraper (Blue-Point®)

- Used for gasket removal, deburring, car body work and rust removal
- Durable tungsten-carbide blades
- Ergonomic handle reduces fatigue
- Thumb grip allows precision scraping

### PK70DROP Replacement Drop Blade (Blue-Point®)

- Drop-shaped replacement blade for PK70

### PK70PEAR Replacement Pear Blade (Blue-Point®)

- Pear-shaped replacement blade for PK71

### PK70ROUND Replacement Round Blade (Blue-Point®)

- Round replacement blade for PK72

### PK70TRI Replacement Triangular Blade (Blue-Point®)

- Triangular replacement blade for PK70

### PKRS1 Ergonomic Grip Razor Scraper (Blue-Point®)

- Three blade positions: closed, open and loading
- Rubberized contour grip provides comfort and a sure gripping surface
- Uses YA1800 Replacement Blades

### YA1800A Single-Edge Razor Blades (100 pk) (Blue-Point®)

- 100 blades in a plastic dispenser
- Blades have aluminum backs that can be shaped for special applications

## EXHAUST, CUTTERS, EXPANDERS AND SPECIAL TOOLS (Blue-Point®)

### Cutters

#### VGP18210 Chain Pipe Cutter (Blue-Point®)

- Quickly and easily cuts exhaust pipes with 13 alloy cutting wheels in the chain
- Cuts stainless steel, copper and PVC piping from 15–75 mm (19/32–2-15/16") 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 the cutting wheels with each series of cut

#### TC90A<sup>†</sup> Tailpipe Cutter (Blue-Point®)

- Handles cutting from 3/4–3-1/2" dia
- 16-link cutter chain is 12" long
- Threaded shaft with crosspiece provides elasticity to help prevent the chain wheels from breaking
- Ideal for cutting the strut assembly to enable servicing of the strut cartridge

#### TC90A1<sup>†</sup> Chain Assembly (Blue-Point®)

- Includes one wheel and one roll pin



VGP18210



TC90A

### Exhaust Tools

#### A140 3/8" Drive Exhaust Stud Socket for Ford® Vehicles

- Socket designed to remove and install catalytic converter studs, typically found on various Ford®, Lincoln® and Mercury® RWD and FWD vehicles

#### YA1300 Manifold Jack (set of 2) (Blue-Point®)

- Used to expand the manifold to its original shape and bolt hole alignment
- Used with a 3/4" open end wrench

#### YA3202 Exhaust Hanger Removal Pliers (Blue-Point®)

- Removes hanger brackets from rubber mounting straps by placing jaw behind rubber grommet ring and forcing pin of pliers on the end of the steel hanger
- When handles are squeezed, the forcing pin pushes the ring off the hanger
- 14" long



A140

YA1300



YA3202



<sup>†</sup>These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.  
 • Keep away from children.  
 • Read Safety Precautions on pages W1–W4

## EXHAUST, CUTTERS, EXPANDERS AND SPECIAL TOOLS (Blue-Point®)



PH300

### Expanders

#### PH300 Tailpipe/Exhaust Stretcher (Blue-Point®)

- Stretches all types of exhaust pipe, including stainless steel, from 1-5/8–2-7/16"
- Used with an impact wrench

#### PH800 Tailpipe Expander with Collets (Blue-Point®)

- Simple and convenient set for tailpipe expansion jobs
- Using an impact wrench the pipe stretcher is a convenient, inexpensive alternative to a hydraulic pipe expander
- Can be used right on the vehicle
- Includes PH300 and (5) aluminum collets
- Expands from 1-5/8–4-1/4"
- Includes molded storage case

## TUBING, CUTTERS, FLARING AND BENDING



TC15A



TC25A



TC15-7C



TCCTMS1

### Cutters

#### TCCTMS1<sup>‡</sup> 3 pc Constant Tension Cutting Set (Blue-Point®)

- Constant Tension feature allows user to tighten once and cut—no need to readjust tension as you would with other tubing cutters saving time and effort
- Three different sizes available for various sized tubing, TCCTMIC cuts a range of tubing sizes from 1/8–5/8" (4–16 mm); TCCTMINI cuts a range of tubing sizes from 1/8–7/8" (4–22 mm); TCCTLRG cuts a range of tubing sizes from 1/8–1-1/4" (4–32 mm)
- Spring loaded cutting wheel protects from over-tightening and crimping the tubing
- One replacement cutting wheel for each tool included
- Custom blue color with clear laser markings
- Includes replacement cutting wheels: TCCTSWHL small cutting wheel for the TCCTMIC and the TCCTLWHL for the TCCTMINI and TCCTLRG

#### TCCTLRG<sup>‡</sup> Large Constant Tension Cutter (Blue-Point®)

- Constant Tension feature allows user to tighten once and cut—no need to readjust tension as you would with other tubing cutters saving time and effort
- Adjustable cutting tool for various sized tubing, allowing user increased access
- Spring loaded cutting wheel protects from overtightening and crimping the tubing
- Custom blue color with clear laser markings

#### TCCTMINI<sup>‡</sup> Mini Constant Tension Cutter (Blue-Point®)

#### TCCTMIC<sup>‡</sup> Micro Constant Tension Cutter (Blue-Point®)

#### TC15A Ratcheting Tubing Cutter

- Ratchet action allows tubing to be cut all around by simply pumping the handle
- Handles 1/8–3/8" O.D. copper, plastic and PVC tubing
- Ideal for fuel, vacuum and air conditioning applications
- 3-7/8" long

#### TC25A Ratcheting Tubing 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 5/16–1-1/8" dia
- Ratcheting tubing cutter with unique spring-loaded action mechanism allows one or two tightening adjustments to complete the cut in very hard-to-reach places
- High-impact fiberglass handle is strong and lightweight

#### TC15-7C Cutting Wheel

- Standard replacement cutting wheel for TC15A Ratcheting Tubing Cutter

#### TC15-HSS Small Cutting Wheel

- High-speed steel cutting wheel

#### TCCTSWHL<sup>‡</sup> Small Cutting Wheel for TCCTMIC

#### TCCTLWHL<sup>‡</sup> Large Cutting Wheel for TCCTMINI and TCCTLRG

### Universal Hydraulic Flaring Tool Set

#### TF600-2 Flaring Adaptor (5/16") (Blue-Point®)

- 5/16" flaring adaptor for push connect flares

#### TF600-3 Flaring Die Set (5/16") (Blue-Point®)

- 5/16" flaring die set for push connect flares

#### TF600-4 Flaring Adaptor (3/8") (Blue-Point®)

- 3/8" flaring adaptor for push connect flares

#### TF600-6 Flaring Adaptor (1/4") (Blue-Point®)

- 1/4" flaring adaptor for push connect flares

#### TF600-7 Flaring Die Set (1/4") (Blue-Point®)

- 1/4" flaring die set for push connect flares

#### TF7001 GM® Fuel Adaptor (5/16") (Blue-Point®)

- 5/16" GM® Fuel Line Adaptor

#### TF7002 GM® Fuel Die Set (5/16") (Blue-Point®)

- 5/16" GM® Fuel Line Die Set

#### TF7003 GM® Fuel Adaptor (3/8") (Blue-Point®)

- 3/8" GM® Fuel Line Adaptor

#### TF7004 GM® Fuel Die Set (3/8") (Blue-Point®)

- 3/8" GM® Fuel Line Die Set

## Bending Tools

### TBS100 Tubing Bender

- Bends tubing up to 1/4" O.D.
- Bends copper, brass, Bundy weld, non-coated 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 on tool for accurate bends
- 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<sup>‡</sup> 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, shown on tool for accurate bends
- Pull lever to easily disengage the 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
- 10-1/2" long



## Flaring Tool Sets (Blue-Point®)

### TF528D<sup>‡</sup> Tube Cutting and Double Flaring Set (Blue-Point®)

- Includes a tubing cutter, double flaring set with a flaring bar, rod handle, yoke and (5) adaptors (3/16, 1/4, 5/16, 3/8 and 1/2")
- Includes a storage case

### TFM5A<sup>‡</sup> Metric Double Flaring Tool Set (Blue-Point®)

- Same design as TF5A except for tubing with a O.D. from 4.75–10 mm
- Set includes a yoke, bar assembly, handle and (5) adaptors (4.75, 5, 6, 8 and 10 mm)

### TF5A<sup>‡</sup> Double Flaring Tool Set (Blue-Point®)

- Makes double or single flares on soft steel, brass or aluminum tubing from 3/16–1/2" O.D.
- Makes a smooth fitting, crack-free 45° flare
- Set includes (5) adaptors, a yoke assembly, bar assembly and handle
- Storage case included

### TF275A Flaring and Swaging Set (Blue-Point®)

- 45° flare or swage of 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
- Includes TF275PB storage case

### TFM428<sup>‡</sup> Metric Bubble Flaring Set (Blue-Point®)

- For automotive brake systems
- Designed for crack-free bubble flares on soft wall tubing up to a .028" wall thickness
- Adaptors included for 4.75, 6, 8 and 10 mm flares
- Includes TFM428PB storage case

### TFL20MK<sup>‡</sup> Master Inline Flaring Kit (Blue-Point®)

- Unique design locks the adaptors, cone, and tube in a perfect line to help make perfect factory flares every time
- Clamp and set screws put pressure directly over the tube, greatly reducing the chance of the tube slipping from the clamp; increases the overall life of the clamp by not wearing down the teeth inside from repeated slipping
- Slender low-profile design allows the user to make flares on the vehicle in tight spaces
- Flares can be achieved along the frame rails or areas in the engine compartment, saving the user time from having to remove components or complete lines to make repairs
- Kit includes the constant tension tubing cutter

### TFL500<sup>‡</sup> Flaring Kit (Blue-Point®)

- Used 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
- Inline 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<sup>‡</sup> Flaring Kit (Blue-Point®)

- Makes double flares on 3/16" and 4.75 mm tubing

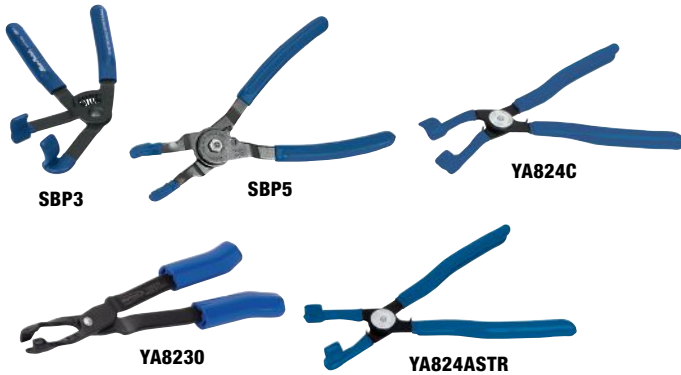
### TFLM800<sup>‡</sup> Flaring Kit (Blue-Point®)

- Makes double flares on 4.75, 5, and 6 mm tubing



<sup>‡</sup>These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.  
• Read Safety Precautions on pages W1–W4

## SPARK PLUG SERVICE TOOLS



### Boot Pliers

#### SBP3<sup>‡</sup> Boot Pliers (Blue-Point<sup>®</sup>)

- Vinyl-coated offset jaw tips will pull most US and import spark plug boots, including the back plugs on late-model Porsche<sup>®</sup> and Mercedes-Benz<sup>®</sup> vehicles
- Vinyl-covered handles are cushioned for comfort

#### SBP5 Boot Pliers (Blue-Point<sup>®</sup>)

- Five 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

#### YA8230<sup>‡</sup> Valve Stem Seal Pliers (Blue-Point<sup>®</sup>)

- Removes valve stem seals from overhead camshaft engines, including four valve-per-cylinder engines that have restricted access to the valve stem seal
- Gripping serrations in the pliers tip easily grab both OEM and aftermarket seals with ease
- Easy-grip handles

#### YA824C Spark Plug Boot Pliers (Blue-Point<sup>®</sup>)

- 45° offset jaws
- Vinyl-coated jaws and handles assure gripping ability
- Used only on automotive type ignition systems
- 9-1/2" long

#### YA824ASTR Boot Pliers (Blue-Point<sup>®</sup>)

- Straight jaw version of YA824C
- 9-3/4" long

### Porcelain Extractors

#### FSPPRK Porcelain Extractor Set

- Used in combination with the FSPK Spark Plug Extractor set on Ford<sup>®</sup> 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
- Four cylinders can be worked on at one time to save time and money
- Set includes porcelain repair kit for use on Ford<sup>®</sup> vehicles, pins (10 pk), special Loctite<sup>®</sup> 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<sup>®</sup> Mustang<sup>®</sup>, Explorer<sup>®</sup>, Mercury<sup>®</sup> Mountaineer<sup>®</sup>); 5.4 L V8 2004–2008 (Ford<sup>®</sup> F-150<sup>®</sup>, F-250<sup>®</sup> Super Duty<sup>®</sup>, F-350<sup>®</sup> Super Duty<sup>®</sup>, E-450<sup>®</sup> Super Duty<sup>®</sup>, Expedition<sup>®</sup>, Lincoln<sup>®</sup> Navigator<sup>®</sup>, Mark LT); 6.8 L V-10 2005–2008 (Ford<sup>®</sup> F-250<sup>®</sup> Super Duty<sup>®</sup>, F-350<sup>®</sup> Super Duty<sup>®</sup>, F-450<sup>®</sup> Super Duty<sup>®</sup>, F-550<sup>®</sup> Super Duty<sup>®</sup>, E-450<sup>®</sup> Super Duty<sup>®</sup>, E-450<sup>®</sup> Econoline<sup>®</sup>)

#### FSPPRK1<sup>‡</sup> Porcelain Repair Kit for Ford<sup>®</sup> Vehicles

- Includes washer, center screw, guide, hex nut and end nut

#### FSPPRK2 Pins (10 pk)

#### FSPPRK3 Loctite<sup>®</sup> 680

- 5 mil

#### FSPPRK4<sup>‡</sup> Clean Out Wire

- Cleans hole



### Spark Plug Extractors

Stock No.	Description	
FSPK1 <sup>‡</sup>	Barrel	•
FSPK2 <sup>‡</sup>	Threaded Shaft	•
FSPK3	Nut	•
FSPK4	Thrust Washer	•
FSPK5	Vinyl Cap	•

Optional Tap Holder TDL8-10

#### FSPK<sup>‡</sup> Spark Plug Extractors

- Removes broken spark plugs from the cylinder head on Ford<sup>®</sup> Triton<sup>®</sup> 5.4 L three-valve engines, 4.6 L engines and 6.8 L engines without removing the head

### Spark Plug Tools

Stock No.	Description	
SPRTLM12 <sup>‡</sup>	3/8" Drive 12 mm Metric Spark Plug Rethreader	•
SPRTLM14 <sup>‡</sup>	3/8" Drive 14 mm Metric Spark Plug Rethreader	•
SPRTLM16 <sup>‡</sup>	3/8" Drive 16 mm Metric Spark Plug Rethreader	•

#### SPRTLM203 3 pc 3/8" Drive Metric Spark Plug Rethread Kit

- 8" length eliminates need for extensions, allowing for a positive feel while reducing chance of cross-threading
- Eliminates possibility of dropping tool into the cylinder head
- Services all major vehicle platforms using 12, 14, and 16 mm spark plugs
- Taps feature a 5/8" hex head and 3/8" square drive



FRT10



FRT12



HB5PK



YA832A



YA840

## Spark Plug Tools

### FRT10<sup>‡</sup> Spark Plug Insert Installer Set (Blue-Point®)

- Repairs damaged heads from blown spark plugs with an alloy steel insert in as little as 15–45 minutes
- Services modular cylinder heads on 4.6, 5.4, 6.8 L and V10 Ford® vehicles
- Set includes tap, core drill, guide, storage case, instructional DVD and spark plug insert

### FRT12<sup>‡</sup> Three-Valve Insert Kit for Ford® Vehicles (Blue-Point®)

- Repairs 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 three-valve 4.6, 5.4 and 6.8 L engines built 2003–2007
- Set includes tap, core drill, guide, insert installer, insert and storage case

### 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

### YA6845<sup>‡</sup> Spark Plug Boot Remover

- For use on ripped or stuck spark plug boots
- Easily saves time, 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

### 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

### YA840 In-Line Spark Tester (Blue-Point®)

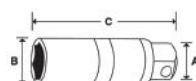
- Quickly diagnoses ignition systems
- Works on all ignition systems including the distributorless type
- Status of indicator light shows if a problem exists in the ignition system or fuel system

## Spark Plug Socket Sets

Size	Set Contains:		A	B	C	Rubber Insert			
	6	12					206ESSPKPLG	206ESSPKPLG2	205ESSPKPLG3
5/8"	S9706KA	—	3/8	27/32	2-27/32	S9706KARI	•		
5/8"	S9720KA	—	3/8	27/32	5-31/32	S9706KARI		•	
5/8"	S9706KFUA	—	3/8	5/8	3-23/32	S9706KARI	•		
13/16"	S9704KA	—	3/8	7/8	2-3/4	S9705A2	•		
13/16"	S9704KFUA	—	3/8	13/16	3-9/16	S9705A2	•		
13/16"	S9719KA	—	3/8	1-3/64	5-7/8	S9719-2A			•
3/8"	FXKL6A	—	1/2	6	—	—	•		
9/16"	S9716KFUA	—	3/8	3/4	2-15/16	S9714MK-2		•	
9/16"	S9716KA	—	5/8	23/32	2-1/8	S9714MK-2		•	
9/16"	S9716KL	—	3/8	25/32	5-7/8	S9714MK-2			•
3/4"	S9718KA	—	3/8	31/32	2-13/32	S9705A2		•	
14 mm	—	S9714MK	16.0	19.6	2.6 (66)	S9714MK-2	•		
14 mm	S9714MKS	—	16.0	19.6	2.6 (66)	S9714MK-2			•
14 mm	—	S9714MKDFUA	3/8	25/32	3-1/8 (79.5)	S9714MK-2			
14 mm	S9714MKFUA	—	3/8	25/32	3-1/8	S9714MK-2		•	
14 mm	S9714MKL	—	16.0	19.6	149.2	S9714MK-2			•
14 mm	—	S9714MKDL	16.0	19.6	149.2	S9714MK-2			•
18 mm	S9711KA	—	11/16	24.3	66.9	S9706KARI		•	

ASME®/ANSI® B107.34M

Set Contains:  
206ESSPKPLG  
206ESSPKPLG2  
205ESSPKPLG3



206ESSPKPLG



206ESSPKPLG2



205ESSPKPLG3

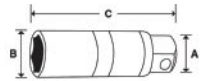


- Read and follow safety messages in the instructions.
- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.
- Read Safety Precautions on pages W1–W4



# FLANK DRIVE® SPARK PLUG SOCKETS



**S9710KC**



## Ball Joint Swivel

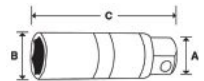
		A	C	Rubber Insert
5/8	<b>S9710KC</b>	3/8	3-25/32	<b>S9706KARI</b>
13/16	<b>S9709KB</b>	3/8	3-25/32	<b>S9705A2</b>






**S9706KMAG**



**S9716KLMAGA**



## Magnetic

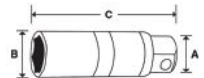
			A	B	C
9/16"	<b>S9716KLMAGA</b>	—	5/8	25/32	5-7/8
5/8"	<b>S9706KMAG</b>	—	11/16	27/32	2-27/32
13/16"	<b>S9704KMAG</b>	—	7/8	1-1/16	2-11/16
14 mm	<b>S9714MKMAGA</b>	—	5/8	19.55	56.38
14 mm	—	<b>S9714MKDMGA</b>	5/8	18.03	66.04






**S9704KFUA**



**S9716KFUA**



## Universal

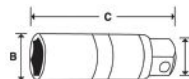
			A	B	C	Rubber Insert
9/16"	<b>S9716KFUA</b>	—	3/8	3/4	2-15/16	<b>S9714MK-2</b>
5/8"	<b>S9706KFUAMAG</b>	—	3/8	27/32	3-3/4	—
5/8"	<b>S9706KFUA</b>	—	3/8	5/8	3-23/32	<b>S9706KARI</b>
13/16"	<b>S9704KFUA</b>	—	3/8	13/16	3-9/16	<b>S9705A2</b>
14 mm	<b>S9714MKFUA</b>	—	3/8	25/32	3-1/8	<b>S9714MK-2</b>
14 mm	—	<b>S9714MKDFUA</b>	3/8	25/32	3-1/8	—

# FLANK DRIVE® SPARK PLUG SOCKETS

GENERAL HAND TOOLS

## Retention

- Patented tapered hex design securely retains spark plug in socket without rubber insert or magnet
- Patented diamond wedge design with six wedges equally aligns the plug in the center to avoid damage to the porcelain (US Patent #6,626,067)
- Spark plug is easily disengaged by applying gentle side pressure
- Spark plug extends through the socket for access in tight quarters
- Side through hole for secure extension retention for coil on plug applications
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats which deliver 15–25% more turning power
- Manufactured from the highest quality proprietary steel, providing optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Spark plug socket is cold-formed for extended tool life
- Knurled surface for finger tightening/removal
- External hex on standard models for restricted-access applications



S9716KR



S9704KR

#	6	A	B	C
9/16"	S9716KR	5/8	25/32	2-3/8
5/8"	S9706KRFUA	N/A	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	19.6	60.3

ANSI B107.34M

### S9716KR 3/8" Drive 6-Point SAE 9/16" Flank Drive® Standard Retention Spark Plug Socket

- Applications include 4.6 L, 3-valve engine 2005 Ford® Mustang® and 5.4 L V8, 3-valve engine Ford® 2004 F-150®

### S9714MKR 3/8" Drive 6-Point Metric 14 mm Flank Drive® Retention Spark Plug Socket

- Applications include 14 mm spark plugs used in Nissan® 1.8 L Versa® and 2.0 L Sentra®, Mercedes® and BMW® vehicles

### S9704KR 3/8" Drive 6-Point SAE 13/16" Flank Drive® Standard Retention Spark Plug Socket

- Applications include the removal and installation of 13/16" spark plugs

### S9706KRA 3/8" Drive 6-Point SAE 5/8" Flank Drive® Standard Retention Spark Plug Socket

- Applications include 4.7 L engines used on Jeep® Commander® and Grand Cherokee®, RAM®, Durango® and Dakota® plus Chrysler® Aspen® vehicles, plus general applications on autos, light trucks, motorcycles and power equipment

### S9706KRFUA 3/8" Drive 6-Point SAE 5/8" Flank Drive® Universal Retention Spark Plug Socket

- Applications include 4.7 L engines used on Jeep® Commander and Grand Cherokee®, RAM®, Durango® and Dakota® plus Chrysler® Aspen® vehicles, plus general applications on autos, light trucks, motorcycles and power equipment



S9723



S9704RHS



S9724RHS



OGS1528

## Special Application

- Spark plug extends through the socket for access in tight quarters
- Patented tapered hex design securely retains the spark plug in the socket without a rubber insert or magnet
- Patented diamond wedge design with six wedges equally aligns the spark plug in the center to avoid damage to the porcelain
- Spark plug is easily disengaged from the socket by applying gentle side pressure to break the contact
- 5/8" offset spark plug socket for limited-access situations
- Side through-hole for secure extension retention
- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean
- Spark plug socket is cold formed for extended tool life

### S9723 3/8" Drive 12-Point SAE 5/8" Flank Drive® Offset Spark Plug Socket

- Knurled surface for finger tightening and removal

### S9704RHS 3/8" Drive 6-Point SAE 13/16" Flank Drive® Low-Profile Spark Plug Socket

- Low-profile socket easily reaches spark plugs without interference from custom exhausts or chassis
- Knurled surface for finger tightening and removal

### S9724RHS 3/8" Drive 6-Point SAE 5/8" Flank Drive® Low-Profile Spark Plug Socket

- Low-profile socket easily reaches spark plugs without interference from custom exhausts or chassis

### OGS1528 1/2" Drive 6-Point SAE 7/8" Spark Plug Socket

- Retaining ring holds the spark plug in the socket to aid in removal and installation
- Used for removing and installing spark plugs on large Waukesha® Engine Generators



- Read and follow safety messages in the instructions.
- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- Read Safety Precautions on pages W1–W4

## FLANK DRIVE® SPARK PLUG SOCKETS



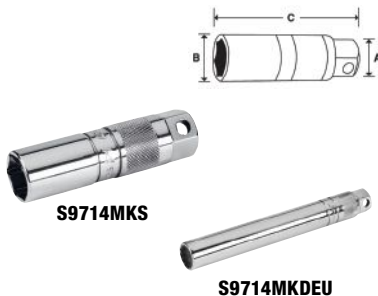
S9718KA

### Standard, inches

		A	B	C	Rubber Insert
9/16"	S9716KA	5/8	23/32	2-1/8	S9714MK-2
5/8"	S9706KA	3/8	27/32	2-27/32	S9706KARI
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	3-13/64	S6106-2R

\*Designed for aircraft applications.

ASME®/ANSI® B107.34M



S9714MKS

S9714MKDEU

### Standard, mm

			A	B	C	Rubber Insert
14	S9714MKS	—	16.0	19.6	66.0	S9714MK-2
14	S9714MKL	—	16.0	19.6	149.2	S9714MK-2
14	—	S9714MKDL	16.0	19.6	149.2	S9714MK-2
14	—	S9714MK	16.0	19.6	66.0	S9714MK-2
16	—	S9716MKDL	5/8	20.4	101.6	S9706KARI
18	S9711KA	—	11/16	24.3	66.9	S9706KARI
14	—	S9714MKDEU	16.0	19.6	66.0	—

ANSI® B107.34M



S9720KA

### Extra-Deep, inches

		A	B	C	Rubber Insert
9/16	S9716KL	3/8	25/32	5-7/8	S9714MK-2
5/8	S9720KA	3/8	—	5-31/32	S9706KARI
13/16	S9719KA	3/8	—	5-7/8	S9719-2A

## SPARK PLUG SOCKETS (Blue-Point®)



BLPSPS381316

BLPSPS3858

### Spark Plug, Inches, Chrome (Blue-Point®)

		Length, inches
13/16	BLPSPS381316	2-1/4
5/8	BLPSPS3858	2-9/16

# THREAD RESTORING: RETHREADING TAPS AND DIES



RTD48

### RTD48<sup>‡</sup> 48 pc Master Rethreading Tap and Die Set

- Includes taps and dies, plus thread restorer files
- Repairs or renews damaged threads using a socket or wrench (not for hardened threads or cutting the threads)
- Includes storage case



TRC3

### TRC3<sup>‡</sup> 18 pc Coarse US Rethreading Tap Set (Blue-Point®)

- Includes (6) NC taps and (12) NC dies
- Silver zinc finish



TRF3

### TRF3<sup>‡</sup> 18 pc Fine US Rethreading Tap Set (Blue-Point®)

- Includes (6) NF taps and (12) NF dies
- Black phosphate finish



RTD15M

### RTD15M<sup>‡</sup> 14 pc Metric Tap and Die Set (Blue-Point®)

- Includes (7) metric dies and (7) metric taps
- Gold zinc finish

### WSK12-1<sup>‡</sup> M14 x 2.00 Stud Installer (Blue-Point®)

### WSK12-PB Plastic Box (Blue-Point®)

### WSK755-2<sup>‡</sup> M14 x 1.50 Socket (Blue-Point®)

### WSK755-3<sup>‡</sup> 1/2"-20 Socket (Blue-Point®)





### WSK755-5<sup>‡</sup> Washer (Blue-Point®)

### WSK755-6<sup>‡</sup> Spacer (Blue-Point®)

### WSK938-3<sup>‡</sup> M12 x 1.25 Socket (Blue-Point®)

### WSK938-4<sup>‡</sup> M12 x 1.50 Socket (Blue-Point®)

## Rethreading Tap and Die Set Components

Type	Size, inches	Stock No.	Set Contains:				
			RTD48 <sup>‡</sup>	TRC3 <sup>‡</sup>	TRF3 <sup>‡</sup>	RTD15M <sup>‡</sup>	
NC Rethreading Taps 	1/4-20	TRT2520A <sup>‡</sup>	•	•			
	5/16-18	TRT3118A <sup>‡</sup>	•	•			
	3/8-16	TRT3716A <sup>‡</sup>	•	•			
	7/16-14	TRT4314A <sup>‡</sup>	•	•			
	1/2-13	TRT5013A <sup>‡</sup>	•	•			
	9/16-12	TRT5612A <sup>‡</sup>	•	•			
NF Rethreading Taps 	1/4-28	TRT2528A <sup>‡</sup>	•		•		
	5/16-24	TRT3124A <sup>‡</sup>	•		•		
	3/8-24	TRT3724A <sup>‡</sup>	•		•		
	7/16-20	TRT4320A <sup>‡</sup>	•		•		
	1/2-20	TRT5020A <sup>‡</sup>	•		•		
	9/16-18	TRT5618A <sup>‡</sup>	•		•		
Metric Rethreading Taps 	(M6 x 1)	TRT51 <sup>‡</sup>	•			•	
	(M8 x 1.25)	TRT53 <sup>‡</sup>	•			•	
	(M10 x 1.25)	TRM1025-2 <sup>‡</sup>	•			•	
	(M10 x 1.5)	TRT54 <sup>‡</sup>	•			•	
	(M12 x 1.75)	TRT55 <sup>‡</sup>	•			•	
	(M12 x 1.5)	TRT56 <sup>‡</sup>	•			•	
	(M12 x 1.25)	TRT57 <sup>‡</sup>	•			•	
	(M10 x 1.00)	TRT101 <sup>‡</sup>	•				
	(M11 x 1.50)	TRT11150 <sup>‡</sup>	•				
	(M14 x 1.50)	TRT14150 <sup>‡</sup>	•				
	(M20 x 1.5)	S6201					
	NC Rethreading Dies 	1/4-20	TR2520A <sup>‡</sup>	•	•		
5/16-18		TR3118A <sup>‡</sup>	•	•			
3/8-16		TR3716A <sup>‡</sup>	•	•			
7/16-14		TR4314A <sup>‡</sup>	•	•			
1/2-13		TR5013A <sup>‡</sup>	•	•			
9/16-12		TR5612A <sup>‡</sup>	•	•			
5/8-11		TR6211A <sup>‡</sup>	•	•			
3/4-10		TR7510A <sup>‡</sup>		•			
7/8-9		TR8759A <sup>‡</sup>		•			
1-8		TR10008A <sup>‡</sup>		•			
1-1/8-7		TR11257A <sup>‡</sup>		•			
1-1/4-7		TR12507A <sup>‡</sup>		•			
NF Rethreading Dies 		1/4-28	TR2528B <sup>‡</sup>	•			•
		5/16-24	TR3124B <sup>‡</sup>	•			•
	3/8-24	TR3724B <sup>‡</sup>	•			•	
	7/16-20	TR4320B <sup>‡</sup>	•			•	
	1/2-20	TR5020B <sup>‡</sup>	•			•	
	9/16-18	TR5618B <sup>‡</sup>	•			•	
	5/8-18	TR6218B <sup>‡</sup>	•			•	
	3/4-16	TR7516A <sup>‡</sup>				•	
	7/8-14	TR8714A <sup>‡</sup>				•	
	1-14	TR10014A <sup>‡</sup>				•	
	1-1/8-12	TR11212A <sup>‡</sup>				•	
	1-1/4-12	TR12512A <sup>‡</sup>				•	
Metric Rethreading Dies 	(M6 x 1)	TDM51B <sup>‡</sup>	•			•	
	(M8 x 1.25)	TDM53B <sup>‡</sup>	•			•	
	(M10 x 1.25)	TRM1025-1 <sup>‡</sup>	•			•	
	(M10 x 1.5)	TDM54B <sup>‡</sup>	•			•	
	(M12 x 1.75)	TDM55B <sup>‡</sup>	•			•	
	(M12 x 1.5)	TDM56B <sup>‡</sup>	•			•	
	(M12 x 1.25)	TDM57B <sup>‡</sup>	•			•	
	(M10 x 1.00)	TR101 <sup>‡</sup>	•				
	(M11 x 1.50)	TR11150 <sup>‡</sup>	•				
	(M14 x 1.50)	TR14150 <sup>‡</sup>	•				
	(M14 x 2)	TR14200					



- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- Rethreading taps and dies renew existing threads; do not use for cutting new threads or on hardened steel.
- ‡ These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.
- Read Safety Precautions on pages W1-W4

## THREAD RESTORING: FILES AND THREAD CHASERS



TTFM932A

### Thread Restoring Files

#### TTFM932A 3 pc Thread Restoration File Set (Blue-Point®)

- Includes (3) commonly needed files
- Files feature a black industrial finish and comfortable vinyl handles
- Files service a range of 9–32 threads per inch and 0.75–3 mm pitches
- Includes vinyl storage bag

#### TF1124B<sup>†</sup> Thread Restorer File (Blue-Point®)

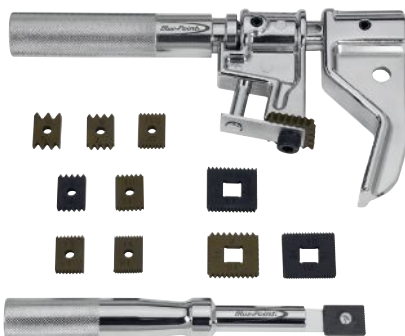
- 11, 12, 13, 14, 16, 18, 20 and 24 threads per inch

#### TF1127B<sup>†</sup> Thread Restorer File (Blue-Point®)

- 9, 10, 12, 16, 20, 27, 28 and 32 threads per inch

#### TFM7530B<sup>†</sup> Thread Restorer File (Blue-Point®)

- For any diameter right- or left-hand threads
- Removable vinyl handle
- Eight pitches: .75, 1, 1.25, 1.5, 1.75, 2, 2.5 and 3 mm



TR30SAE

### Thread Chaser Sets

- Use to return damaged internal and external threads to almost original condition with quick change die
- All components made from a durable, high-grade alloy
- Chrome-plated tools and hardened, manganese phosphate dies
- Features a limited lifetime warranty

#### TR40MSET<sup>†</sup> Internal/External Combination Metric/SAE Thread Chaser Kit (Blue-Point®)

- Metric internal and external thread chaser dies: 0.75, 1, 1.25, 1.5, 2.5, 3, 3.5, 4, 8RD and 10RD
- SAE internal and external thread chasers die sizes: 4, 5, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 16, 18, 20 and 24"

### Metric Thread Chaser Sets (Blue-Point®)

#### TR30MET<sup>†</sup> Internal/External Metric Thread Chaser Kit (Blue-Point®)

- Metric internal and external thread chaser dies: 0.75, 1, 1.25, 1.5, 2.5, 3, 3.5 and 4 mm; 8RD and 10RD

#### TR30MET-1 Internal Thread Chaser Tool (Blue-Point®)

#### TR30MET-2 External Thread Chaser Tool (Blue-Point®)

#### TR30MET-3 V-Pad (Blue-Point®)

#### TR30MET-4 Internal Metric .75 mm/1 mm Die (Blue-Point®)

#### TR30MET-5 Internal Metric 1.25 mm/1.5 mm Die (Blue-Point®)

#### TR30MET-6 Internal Metric 1.75 mm/2 mm Die (Blue-Point®)

#### TR30MET-7 Internal Metric 2.5 mm/3 mm Die (Blue-Point®)

#### TR30MET-8 Internal Metric 3.5 mm/4 mm Die (Blue-Point®)

#### TR30MET-9 Internal Metric 8R/10R Die (Blue-Point®)

#### TR30MET-11 External Metric 1.75 mm/2 mm/2.5 mm/3 mm Die (Blue-Point®)

#### TR30MET-10 External Metric .75 mm/1 mm/1.25 mm/1.5 mm Die (Blue-Point®)

#### TR30MET-12 External Metric 3.5 mm/4 mm/8R/10R Die (Blue-Point®)

### US Thread Chaser Sets (Blue-Point®)

#### TR30SAE<sup>†</sup> Internal/External SAE Thread Chaser Kit (Blue-Point®)

- SAE internal and external thread chasers die sizes: 4, 5, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 16, 18, 20 and 24"

#### TR30SAE-1 Internal Thread Chaser Tool (Blue-Point®)

#### TR30SAE-2 External Thread Chaser Tool (Blue-Point®)

#### TR30SAE-3 V-Pad (Blue-Point®)

#### TR30SAE-4 Internal SAE 4"/5" Die (Blue-Point®)

#### TR30SAE-9 Internal SAE 13"/14" Die (Blue-Point®)

#### TR30SAE-8 Internal SAE 11-1/2"/12" Die (Blue-Point®)

#### TR30SAE-7 Internal SAE 10"/11" Die (Blue-Point®)

#### TR30SAE-6 Internal SAE 8"/9" Die (Blue-Point®)

#### TR30SAE-5 Internal SAE 6"/7" Die (Blue-Point®)

#### TR30SAE-10 Internal SAE 16"/18" Die (Blue-Point®)

#### TR30SAE-11 Internal SAE 20"/24" Die (Blue-Point®)

#### TR30SAE-12 External SAE 4"/5"/6"/7" Die (Blue-Point®)

#### TR30SAE-13 External SAE 8"/9"/10"/11" Die (Blue-Point®)

#### TR30SAE-14 External SAE 11-1/2"/12"/13"/14" Die (Blue-Point®)

#### TR30SAE-15 External SAE 16"/18"/20"/24" Die (Blue-Point®)



RDNSL7

## Diesel Exhaust Bung Rethreading Kit

### RDNSL7<sup>‡</sup> 7 pc Diesel Exhaust Bung Rethreading Kit

- Unique design and geometry allows access to difficult to reach bungs
- Designed to reach the bottom thread even with inverted flare fittings
- Will cleanup most EGT sensor bungs allowing a new sensor to be installed without the need for exhaust component replacement
- Inverted cone design allows the tap to fully engage all threads unlike flat bottom rethreading taps
- Six different sizes and included drive adaptor will accommodate repair of most EGT sensors on cars, light, medium and heavy-duty trucks
- Square-to-hex adaptor allows use of 14 mm or 9/16" socket or wrench

### RNDPKG1<sup>‡</sup> Pouch

### RNDADP1<sup>‡</sup> Hex to Square Adaptor

### RND1210<sup>‡</sup> M12 x 1.0 Rethreader

### RND1215<sup>‡</sup> M12 x 1.5 Rethreader

### RND12125<sup>‡</sup> M12 x 1.25 Rethreader

### RND1415<sup>‡</sup> M14 x 1.5 Rethreader

### RND14125<sup>‡</sup> M14 x 1.25 Rethreader

### RND1615<sup>‡</sup> M16 x 1.5 Rethreader



RD20

## Master Spindle Rethreading Set

Set Contains: RD20

Stock No.	Rethreading Die Size	
RD7-1 <sup>‡</sup>	M24 x 1.5	•
RD7-2 <sup>‡</sup>	M24 x 2	•
RD7-3 <sup>‡</sup>	M22 x 1	•
RD7-4 <sup>‡</sup>	M22 x 1.5	•
RD7-5 <sup>‡</sup>	M20 x 1.5	•
RD7-6 <sup>‡</sup>	3/4"-20	•
RD7-7 <sup>‡</sup>	13/16"-20	•
RD7-9 <sup>‡</sup>	M20 x 1.25	•
RD7-10 <sup>‡</sup>	3/4"-16 NF	•
RD7-11 <sup>‡</sup>	7/8"-14 NF	•
RD7-12 <sup>‡</sup>	1"-14 UNS	•
RD7-13 <sup>‡</sup>	11/16"-24 NF	•
RD7-14 <sup>‡</sup>	M25 x 1.5	•
RD7-15 <sup>‡</sup>	M27-2	•
RD7-16 <sup>‡</sup>	27/32"-20 NF	•
RD7-17 <sup>‡</sup>	M16-1	•
RD7-18 <sup>‡</sup>	M16-1.5	•
RD7-19 <sup>‡</sup>	M18-1.5	•
RD7-20 <sup>‡</sup>	M19-1.5	•
RD7-21 <sup>‡</sup>	M20-1	•

Includes storage case

## RD20 20 pc 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
- 6-point hex used with socket or wrench
- Application chart included



RD8

## Spindle Rethreading Set

### RD8<sup>‡</sup> 8 pc Spindle Rethreading Set

- For most imported or US front wheel drive vehicles

Set Contains: RD8<sup>‡</sup>

Stock No.	Rethreading Die Size	
RD7-1 <sup>‡</sup>	M24 x 1.5	•
RD7-2 <sup>‡</sup>	M24 x 2	•
RD7-3 <sup>‡</sup>	M22 x 1	•
RD7-4 <sup>‡</sup>	M22 x 1.5	•
RD7-5 <sup>‡</sup>	M20 x 1.5	•
RD7-6 <sup>‡</sup>	3/4"-20	•
RD7-7 <sup>‡</sup>	13/16"-20	•
RD7-9 <sup>‡</sup>	M20 x 1.25	•

Includes storage case



RD8LT

## Light Truck Spindle Rethreading Set

### RD8LT<sup>‡</sup> 8 pc Light Truck Spindle Rethreading Set (Blue-Point®)

- For use on 4WD front and rear axle housings, and medium- to heavy-duty 2WD trucks (rear axle)
- Restore axle housing and bearing/hub retention threads

Set Contains: RD8LT<sup>‡</sup>

Stock No.	Rethreading Die Size	Thread Size	
RD7-23 <sup>‡</sup>	2"-16	2"-16	•
RD7-25 <sup>‡</sup>	1-5/8"-16	1-5/8"-16	•
RD7-27 <sup>‡</sup>	Left Hand, 2"-16	Left Hand, 2"-16	•
RD7-28 <sup>‡</sup>	2-1/8"-16	2-1/8"-16	•
RD7-29 <sup>‡</sup>	2-1/4"-16	2-1/4"-16	•

Includes storage case



- Rethreading taps and dies renew existing threads; do not use for cutting new threads or on hardened steel.
- ‡ These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.
- Read Safety Precautions on pages W1-W4

## THREADING: TAP AND DIE SOCKET SETS



TDM100A



TD10B



TD1040A

### Tap and Die Accessories

#### TD10B 1" Double Hex Self-Centering Die Stock

#### TDM100A Metric Thread Pitch Gauge

- Measures Metric threads (3.0–.35 mm)

#### TD1040A SAE Thread Pitch Gauge

- Measures US or sharp V threads
- Includes 18 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



TDL8

### 1/4–3/8" Drive Tap Sockets

Set Contains:

TDL8

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	•

Set includes vinyl socket holder

#### TDL8 8 pc Tap Socket Set (Blue-Point®)

- Rubber o-rings hold taps securely in place
- For use with ratchets and handles
- Black industrial finish



TDL3



TDL5

### 1/2" Drive Tap Sockets

- Use in restricted areas where a T-handle won't easily fit
- Manufactured to M.C.T.I. Standards
- Black oxide coating for corrosion resistance

Set Contains:

TDL3

TDL5

Stock No.	Square Drive, inches	Fits SAE Size Taps	Fits Metric Size Taps	Length, inches	Shank Dia., inches	Square Size, inches		
TDL31	1/2	5/8	16 mm	2-1/2	.480	.360	•	•
TDL32	1/2	11/16	18 mm	2-1/2	.542	.406	•	•
TDL33	1/2	3/4	—	2-1/2	.590	.442	•	•
TDL5-1 <sup>‡</sup>	1/2"	7/8"	22 mm	2.90	0.697	0.523		•
TDL5-2 <sup>‡</sup>	1/2"	1"	25 mm	2.90	0.8	0.6		•

Includes vinyl socket holder

#### TDL3 3 pc 1/2" Drive Tap Socket Set (Blue-Point®)

- Includes (3) tap sockets

#### TDL5<sup>‡</sup> 5 pc 1/2" Drive Tap Socket Set (Blue-Point®)

- Expanded range covers large taps from 5/8–1" (M16–M25)
- Rubber o-rings hold taps securely in place
- For use with ratchets and handles

## PLUG TAPS AND DIES



DDS1



DDS20

### 3/8" Drive Die Socket

- For use with double hex-style dies
- Deep clearance for use on longer studs
- Retention ring in the socket prevents the die from falling out during positioning
- 3/8" square drive allows use in hard-to-reach places where a T-handle will not work

Stock No.	Square Drive, inches	Description	Overall Length, inches	Diameter, inches
DDS1	3/8	3/8" Drive 1" Double Hex Die Driver Socket	2-3/4	1-13/32
DDS20	3/8	3/8" Drive 5/8" Double Hex Die Driver Socket	2-3/8	15/16

## EXDMS48A 48 pc Master Extractor Set

- Quickly and easily extract the toughest screws from 3/32–15/16" screw sizes (including metric sizes)
- Includes (16) left-hand mechanic's-length cobalt drill bits, (13) multispline screw extractors (1/8–1/2"), (6) spiral flute screw extractors plus, (13) hex head fastener extractors (1/4–3/4")
- 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
- Includes storage case



EXDMS48A

Type	Stock No.	Set Contains:								
		EXD35A	EXDMS48A	EXD10A	EXDL10A	E1025	E1020	BEXD10A		
Right-Hand Drill Bits	CSE405B <sup>‡</sup>							•		
	DBCFS5/64A			•						
	DBCFS7/64A			•						
	DBCFS5/32A			•						
	DBCFS1/4A			•						
	DBCFS19/64A			•						
	DBF1/8C <sup>‡</sup>					•	•			
	DBF3/16C <sup>‡</sup>					•	•			
	DBF1/4C <sup>‡</sup>					•	•			
	DBF5/16C <sup>‡</sup>					•	•			
	DBF11/32C <sup>‡</sup>					•	•			
	DBF7/16C <sup>‡</sup>					•				
DBF1/2C <sup>‡</sup>					•					
Left-Hand Drill Bits	DBCL5/64C	•	•		•					
	DBCL7/64C	•	•		•					
	DBCL1/8C	•	•							
	DBCL5/32C	•	•		•					
	DBCL3/16C <sup>‡</sup>	•	•							
	DBCL7/32C	•	•							
	DBCL1/4C	•	•		•					
	DBCL9/32C <sup>‡</sup>	•	•							
	DBCL19/64C	•	•		•					
	DBCL5/16C <sup>‡</sup>	•	•							
	DBCL11/32C <sup>‡</sup>	•	•							
	DBCL3/8C <sup>‡</sup>	•	•							
	DBCL13/32C <sup>‡</sup>	•	•							
	DBCL7/16C <sup>‡</sup>	•	•							
DBCL15/32C <sup>‡</sup>	•	•								
DBCL1/2C <sup>‡</sup>	•	•								
Solid-Type Drill Guides	E921					•	•			
	E1021					•	•			
	E1121					•	•			
	E1221					•	•			
	E1321					•	•			
	E1421					•	•			
	E1521					•	•			
	E1621					•	•			
	E1721					•	•			
	E1821					•	•			
Straight Screw, Hex Nut Type	E1					•	•			
	E2					•	•			
	E3					•	•			
	E4					•	•			
	E5					•	•			
	E6					•				
	E7					•				
	E8					•				

Type	Stock No.	Set Contains:								
		EXD35A	EXDMS48A	EXD10A	EXDL10A	E1025	E1020	BEXD10A		
Pipe Plug Extractors	E80							•		
	E81							•		
	E82							•		
	E83							•		
	E84							•		
	E85							•		
Spiral Flute Screw Extractors	EX1A		•	•	•	•				
	EX2A		•	•	•	•				
	EX3A		•	•	•	•				
	EX4A		•	•	•	•				
	EX5A		•	•	•	•				
	EX6A		•	•						
Multispline Screw Extractors	REX104C		•	•						
	REX105C		•	•						
	REX106C		•	•						
	REX107C		•	•						
	REX108C		•	•						
	REX109C		•	•						
	REX110C		•	•						
	REX112C		•	•						
	REX113C		•	•						
	REX114C		•	•						
	REX115C		•	•						
	REX116C		•	•						
	Hex Head Fastener Extractors	BEX081A		•						
BEX101A			•							
BEX121A			•							
BEX141A			•							
BEX161A			•							
BEX181A			•							
BEX201A			•							
BEX221A			•							
BEX241A			•							
BEXD081A										•
BEXD101A										•
BEXD121A										•
BEXD141A										•
BEXD161A										•
BEXD181A										•
BEXD201A										•
BEXD241A										•
BEXM101A			•							
BEXM121A			•							
BEXM131A			•							
BEXM171A			•							



- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- ‡ These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.
- Read Safety Precautions on pages W1–W4

## EXTRACTORS: EXTRACTOR TOOLS



EXDL10A



E1020



E1020

### Combination Extractor Sets

#### EXD10A 10 pc Right Hand Cobalt Screw Extractor and Drill Bit Set

- Includes (5) right-hand, mechanic's-length cobalt drill bits (19/64, 1/4, 5/32, 5/64 and 7/64") and (5) spiral flute screw extractors (EX1A, EX2A, EX3A, EX4A, EX5A) in a metal index
- Made from special alloy steel for strength and long-lasting performance
- Features mechanics length, right-hand cobalt steel drill bits with 135° split points
- Shorter length maximizes rigidity and lessens chance of breakage
- Spiral tapered flute extractors provide superior broken fastener grip
- Popular size range from 5/64–19/64" (removes fasteners from 3/32–5/8")

#### EXDL10A 10 pc Left Hand Cobalt Screw Extractor and Drill Bit Set

- Includes (5) left-hand, mechanic's-length cobalt drill bits (19/64, 1/4, 5/32, 5/64 and 7/64") and (5) spiral flute screw extractors (EX1A, EX2A, EX3A, EX4A, EX5A) in a metal index
- Features mechanics length, left-hand cobalt steel drill bits with 135° split points

#### E1020 19 pc Extractor Set (Blue-Point®)

- Extract broken screws from 1/4–1/2" D
- Includes (5) right-hand drill bits (1/8, 3/16, 1/4, 5/16 and 11/32"), (9) solid-type drill guides (9/32–9/16" D) and (5) straight screw extractors, plus hex collars (#1–5) in a storage case

#### E1025 39 pc Extractor Set (Blue-Point®)

- Extract broken screws from 1/4–1" dia. and standard pipe sizes 1/8–1"
- Includes (8) right-hand drill bits, (10) solid-type drill guides, (1) sleeve spacer, (2) sleeve-type drill guides, (4) sleeve bushings, (8) straight screw extractors and (6) pipe plug extractors
- Includes a storage case



REX25C

### Multispline Extractors

- Shoulder prevents the extractor from entering too deeply and expanding the screw

Set Contains:

REX25C  
REX13C

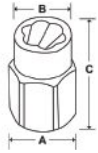
Stock No.	Drill Size, inches	Bolt Size, inches	Pipe Size, inches	Hex Size, inches	Mark	REX25C	REX13C
REX104C	1/8	1/4	—	3/8	A	•	•
REX105C	5/32	5/16	—	3/8	B	•	•
REX106C	3/16	3/8	—	3/8	C	•	•
REX107C	7/32	7/16	—	3/8	D	•	•
REX108C	1/4	1/2	1/8	3/8	E	•	•
REX109C	9/32	9/16	—	1/2	F	•	•
REX110C	5/16	5/8	—	1/2	G	•	•
REX111C	11/32	11/16	1/4	1/2	H	•	•
REX112C	3/8	3/4	—	1/2	I	•	•
REX113C	13/32	13/16	—	1/2	J	•	•
REX114C	7/16	7/8	—	5/8	K	•	•
REX115C	15/32	15/16	3/8	5/8	L	•	•
REX116C	1/2	1	—	5/8	M	•	•
REX117C	17/32	1-1/16	—	3/4	N	•	
REX118C	9/16	1-1/8	—	3/4	O	•	
REX119C	19/32	1-3/16	—	3/4	P	•	
REX120C	5/8	1-1/4	1/2	3/4	Q	•	
REX121C	21/32	1-5/16	—	7/8	R	•	
REX122C	11/16	1-3/8	—	7/8	S	•	
REX123C	23/32	1-7/16	—	7/8	T	•	
REX124C	3/4	1-1/2	—	7/8	U	•	
REX125C	25/32	1-9/16	3/4	1	V	•	
REX126C	13/16	1-5/8	—	1	W	•	
REX127C	27/32	1-11/16	—	1	X	•	
REX128C	7/8	1-3/4	—	1	Y	•	

#### REX25C 25 pc Multispline Screw Extractor Set

- Made from special alloy steel for strength and long-lasting thread life
- Left-hand threads provide superior gripping power for removing damaged bolts, studs and screws

- Compact design for use in tight applications
- Designed for use with wrenches, ratchets and pliers
- Markings are stamped for easy identification
- Includes convenient storage tray
- Made in USA

# EXTRACTORS: EXTRACTOR TOOLS



## Hex Head Fastener Extractors

- Used on most popular hex head fasteners from 1/4–1" (8–24 mm)
- Sockets feature left-hand spiral flutes for maximum gripping power
- Manufactured from alloy steel for strength and lasting performance
- External hex and square drive wrenching options for use with wrenches, impact wrenches and ratchet/socket combinations

Stock No.	Square Drive, inches	Size, inches (mm)	A	B	C	Set Contains:	
						BEX13B	BEX5C
BEX081A	3/8	1/4 (6)	5/8 (15.9)	3/8 (9.5)	1-1/16 (27)		•
BEX101A	3/8	5/16 (8)	5/8 (15.9)	7/16 (11.1)	1-1/16 (27)		•
BEX121A	3/8	3/8 (10)	5/8 (15.9)	9/16 (14.3)	1-1/16 (27)		•
BEX141A	3/8	7/16 (11)	3/4 (19.1)	5/8 (15.9)	1-1/16 (27)		•
BEX161A	3/8	1/2 (12)	3/4 (19.1)	23/32 (17.9)	1-1/16 (27)		•
BEX181A	3/8	9/16 (14)	7/8 (22.2)	25/32 (19.4)	1-1/16 (27)		•
BEX201A	3/8	5/8 (16)	7/8 (22.2)	7/8 (21.8)	1-1/16 (27)		•
BEX221A	3/8	11/16 (17)	1 (25.4)	15/16 (24.2)	1-1/16 (27)		•
BEX241A	3/8	3/4 (19)	1-1/16 (27)	1-1/32 (26.2)	1-1/16 (27)		•
BEXM101A	3/8	N/A (10)	3/4 (19.1)	5/8 (15.5)	1-1/16 (27)		•
BEXM121A	3/8	N/A (12)	3/4 (19.1)	23/32 (17.5)	1-1/16 (27)		•
BEXM131A	3/8	N/A (13)	3/4 (19.1)	23/32 (18.5)	1-1/16 (27)		•
BEXM171A	3/8	N/A (17)	1 (25.4)	29/32 (23.0)	1-1/16 (27)		•
BEXW241A	1/2	3/4 (19)	1-1/4 (31.8)	1-1/8 (28.6)	1-3/4 (45)		•
BEXW261A	1/2	13/16 (21)	1-3/8 (34.9)	1-3/16 (30.2)	1-3/4 (45)		•
BEXW281A	1/2	7/8 (22)	1-7/16 (36.5)	1-1/4 (31.8)	1-3/4 (45)		•
BEXW301A	1/2	15/16 (24)	1-7/16 (36.5)	1-5/16 (33.3)	1-3/4 (45)		•
BEXW321A	1/2	1 (25)	1-7/16 (36.5)	1-3/8 (34.9)	1-3/4 (45)		•

Includes storage tray

## 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

Stock No.	Square Drive, inches	Size, inches (mm)	Length, inches	Set Contains:	
				BEXD10A	
BEXD081A	3/8	1/4 (6)	2-7/16		•
BEXD101A	3/8	5/16 (8)	2-7/16		•
BEXD121A	3/8	3/8 (10)	2-7/16		•
BEXD141A	3/8	7/16 (11)	2-7/16		•
BEXD161A	3/8	1/2 (12)	2-7/16		•
BEXD181A	3/8	9/16 (14)	2-7/16		•
BEXD201A	3/8	5/8 (16)	2-7/16		•
BEXD241A	3/8	3/4 (19)	2-7/16		•
BEXDM101A	3/8	N/A (10)	2-7/16		•
BEXDM131A	3/8	N/A (13)	2-7/16		•

Includes storage tray



- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- Read Safety Precautions on pages W1–W4

## EXTRACTORS: EXTRACTOR TOOLS

### 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	7/16	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



SR40K

### Tapered Bit Extractors

- Tapered ends have left hand threads to bite deep into drilled studs
- Square shafts for use with wrench

Set Contains:

SR40K

Stock No.	Description	
SR4A	1/8" Tapered Bit Extractor	•
SR10A	9/64" Tapered Bit Extractor	•
SR14	7/32" Tapered Bit Extractor	•
SR20	5/16" Tapered Bit Extractor	•

Includes kit bag

## EXTRACTORS: STUD REMOVERS



CSE405B



E80

### Right-Hand Fractional Drill Bits

- Use right-hand drill bits to make a hole in the broken screw before the extractor is inserted

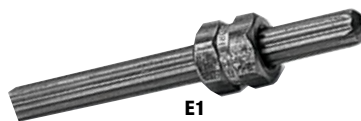
Stock No.	Size, inches	Flute Length, inches	Overall Length, inches
CSE405B <sup>†</sup>	5/8	3	6
DBF1/8C <sup>‡</sup>	1/8	1-3/8	3
DBF3/16C <sup>‡</sup>	3/16	2	3-1/2
DBF1/4C <sup>‡</sup>	1/4	2-1/2	4
DBF5/16C <sup>‡</sup>	5/16	2-5/8	4-1/2
DBF11/32C <sup>‡</sup>	11/32	2-3/4	4-1/2
DBF7/16C <sup>‡</sup>	7/16	1-7/8	4-1/4
DBF1/2C <sup>‡</sup>	1/2	2-1/4	4-3/4

### 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



EX1A



E1



E6

## Spiral Flute Screw Extractors

- Designed to remove broken studs, bolts, socket screws and fittings
- Aggressive left-hand spiral design for extra gripping power

Stock No.	Use Drill Size, inches	Removes Bolts and Screws
EX1A	5/64	3/32–5/32", 2.5–4 mm, #3–#6
EX2A	7/64	5/32–7/32", 4–6 mm, #6–#12
EX3A	5/32	7/32–9/32", 6–8 mm, #12
EX4A	1/4	9/32–3/8", 1/8" NPT, 1/8" BSP, 8–10 mm
EX5A	19/64	3/8–5/8", 1/4" NPT, 1/4" BSP, 10–16 mm
EX6A	13/32	5/8–7/8", 3/8" NPT, 3/8" BSP, 16–22 mm

## 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

## Extractor Set

### YA769 Extractor Set (Blue-Point®)

- Extract broken screws from 1/4–1/2" dia
- Drill/extract with one tool
- Left-hand drill bit
- For use in 3/8" drive reversible drill

Set Contains:

YA769

Stock No.	Drilling Speed, RPM	Extractor Size, SAE	Extractor Size, Metric	RPM	
YA769-1	700–800	1/4	M6	350	•
YA769-2	650–750	5/16	M8	470	•
YA769-3	600–700	3/8	M10	350	•
YA769-4	475–575	1/2	M12	350	•

Set includes storage case.



YA769

### 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 reverse direction, allowing user to easily remove damaged screws
- For use with a variable-speed reversing drill or 1/4" hex bit screwdriver

### YA2020 Screw Extractor Set (Blue-Point®)

- Easily extracts #6–#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

Set Contains:

YA2019

Stock No.	Extractor Size, Bolt Size	
YA2019-1	#6, #8	•
YA2019-2	#8, #10	•
YA2019-3	#10, #12	•

Set includes storage case.



YA2019



† These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.

- Read Safety Precautions on pages W1–W4

## EXTRACTORS: STUD REMOVERS



YA789

### YA789 Power Extractor Set (Blue-Point®)

- Easy to use—place the extractor end of the tool into the drill chuck, set for reverse and the hole can be drilled
- Insert the drill side into the chuck, exposing the extractor end and finish the job to remove the broken screw

### Extractor Set

Stock No.	Extractor Size, Bolt Size	Extractor Size, SAE	Extractor Size, Metric	Set Contains:
YA789-1	—	#5, #6	M3	•
YA789-2	—	#8	M4	•
YA789-3	#10, #12	—	M5	•
YA789-4	—	1/4"	M6	•

Set includes storage case



A36A



A50A



LA54



LA55A

### Cam- and Wedge-Type Stud Removers

#### A36A Stud Remover

- 1/2–3/4" capacity
- Knurled wheel grips the stud
- Driving shank extends through both sides of the housing for bearing surface on each side of the wheel
- Uses a 1/2" drive handle

#### A50A Stud Remover

- 7/16–1/2" capacity
- V-shaped rack grips the stud
- Grip releases when pressure is relieved
- Uses a 1/2" drive handle

#### A50-4B Optional Rack

- 5/16–3/8" capacity

#### A80A Stud Remover

- 1/4–1/2" 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

#### LA54 Stud Remover

- 1/4–5/8" capacity
- Smaller version of LA55A
- Requires a 1/2" drive handle
- Includes two wedge sizes: LA54-2A and LA54-3A

#### LA54-2A Wedge

#### LA54-3A Wedge

#### LA55A Stud Remover

- 9/16–1" capacity
- Grip is released by turning the tool in reverse direction
- Works on wedge principle
- Use with a 3/4" drive handle
- Includes two wedge sizes: LA55A2 and LA55A3

#### LA55A2 Wedge

#### LA55A3 Wedge

## Stud Removers

- Tapered collets thread onto the stud, even if only a few threads are exposed
- Tightening the housing bolt draws the collet into the housing and clamps the collet onto the stud
- Tools reduce the chance of damage to stud threads
- Avoid bottoming or shouldering the studs, shearing or damaging the stud or workpiece

## Stud Remover Set Components

Stock No.	Description	Set Contains:	
		CJ515B	CJM515B
CJ500-1	CJ500 Dowel Collet Housing	•	•
CJ500-3	1/4"-20 Taper Collet	•	
CJ500-4	1/4"-28 Taper Collet	•	
CJ500-5	5/16"-18 Taper Collet	•	
CJ500-6	5/16"-24 Taper Collet	•	
CJ500-7	3/8"-16 Taper Collet	•	
CJ500-8	3/8"-24 Taper Collet	•	
CJ500-9	7/16"-14 Taper Collet	•	
CJ500-10	7/16"-20 Taper Collet	•	
CJ500-11	1/2"-13 Taper Collet	•	
CJ500-12	1/2"-20 Taper Collet	•	
CJ500-13	9/16"-12 Taper Collet	•	
CJ500-14	9/16"-18 Taper Collet	•	
CJ500-15	5/8"-11 Taper Collet	•	
CJ500-16	5/8"-18 Taper Collet	•	
CJ500-17	Number 10-24 Taper Collet		
CJ500-18	Number 10-32 Taper Collet		
CJ500-30	M6-1.00 Taper Collet		•
CJ500-33	M7-1.00 Taper Collet		•
CJ500-36	M8-1.00 Taper Collet		•
CJ500-37	M8-1.25 Taper Collet		•
CJ500-39	M9-1.00 Taper Collet		•
CJ500-40	M9-1.25 Taper Collet		•
CJ500-42	M10-1.25 Taper Collet		•
CJ500-43	M10-1.50 Taper Collet		•
CJ500-48	M12-1.25 Taper Collet		•
CJ500-49	M12-1.50 Taper Collet		•
CJ500-54	M14-1.50 Taper Collet		•
CJ500-55	M14-2.00 Taper Collet		•
CJ500-60	M16-1.50 Taper Collet		•
CJ500-61	M16-2.00 Taper Collet		•
CJ500H1	3/8" Hex Collet		
CJ500H2	7/16" Hex Collet		
CJ500H4	9/16" Hex Collet		



CJ515B



CJM515B



CJ500-1



- Wear safety goggles (user and bystanders).
- For hand use only.
- Read Safety Precautions on pages W1-W4

# EXTRACTORS: STUD REMOVERS



MSK16

## Stud Removers

Set Contains: **MSK16**

Stock No.	Description	
MSK-0820N	Install Tool 1/4" x 20 TPI (Blue-Point®)	•
MSK-0820R	Remove Tool 1/4" x 20 TPI (Blue-Point®)	•
MSK-0828N	Install Tool 1/4" x 28 TPI (Blue-Point®)	•
MSK-0828R	Remove Tool 1/4" x 28 TPI (Blue-Point®)	•
MSK-1613N	Install Tool 1/2" x 13 TPI (Blue-Point®)	•
MSK-1613R	Remove Tool 1/2" x 13 TPI (Blue-Point®)	•
MSK-1620N	Install Tool 1/2" x 20 TPI (Blue-Point®)	•
MSK-1620R	Remove Tool 1/2" x 20 TPI (Blue-Point®)	•
MSK-1812N	Install Tool 9/16" x 12 TPI (Blue-Point®)	•
MSK-1812R	Remove Tool 9/16" x 12 TPI (Blue-Point®)	•
MSK-1818N	Install Tool 9/16" x 18 TPI (Blue-Point®)	•
MSK-1818R	Remove Tool 9/16" x 18 TPI (Blue-Point®)	•
MSK-2011N	Install Tool 5/8" x 11 TPI (Blue-Point®)	•
MSK-2011R	Remove Tool 5/8" x 11 TPI (Blue-Point®)	•
MSK-2018N	Install Tool 5/8" x 18 TPI (Blue-Point®)	•
MSK-2018R	Remove Tool 5/8" x 18 TPI (Blue-Point®)	•



MSKMA10

## Stud Removers

Set Contains: **MSKMA10**

Stock No.	Description	
MSK-M12125N	M12 x 1.25 Install Tool	•
MSK-M12125R	M12 x 1.25 Remove Tool	•
MSK-M14125N	M14 x 1.25 Install Tool	•
MSK-M14125R	M14 x 1.25 Remove Tool	•
MSK-M1415N	M14 x 1.5 Install Tool	•
MSK-M1415R	M14 x 1.5 Remove Tool	•
MSK-M1620N	M16 x 2.0 Install Tool	•
MSK-M1620R	M16 x 2.0 Remove Tool	•
MSK-M8125N	Stud Installer	•
MSK-M8125R	Stud Remover	•



MSK10

## Stud Removers

Set Contains: **MSK10**

Stock No.	Description	
MSK-1018N	Stud Installer	•
MSK-1018R	Stud Remover	•
MSK-1024N	Stud Installer	•
MSK-1024R	Stud Remover	•
MSK-1216N	Stud Installer	•
MSK-1216R	Stud Remover	•
MSK-1224N	Stud Installer	•
MSK-1224R	Stud Remover	•
MSK-1414N	Stud Installer	•
MSK-1414R	Stud Remover	•



MSKM10

## Stud Removers

Set Contains: **MSKM10**

Stock No.	Description	
MSK-M610N	Stud Installer	•
MSK-M610R	Stud Remover	•
MSK-M1825N	M18 x 2.5 Install Tool	•
MSK-M1825R	M18 x 2.5 Remove Tool	•
MSK-M10125N	Stud Installer	•
MSK-M10125R	Stud Remover	•
MSK-M1015N	Stud Installer	•
MSK-M1015R	Stud Remover	•
MSK-M1215N	Stud Installer	•
MSK-M1215R	Stud Remover	•

## Dowel Pin Puller Sets Components

Stock No.	Description	Set Contains:	
		CJ503	CJM503
CJ500-2	CJ500 Stud Collet Housing Assembly	•	•
CJ500-72	1/4" Dowel Pin Collet	•	
CJ500-73	5/16" Dowel Pin Collet	•	
CJ500-74	3/8" Dowel Pin Collet	•	
CJ500-75	7/16" Dowel Pin Collet	•	
CJ500-76	1/2" Dowel Pin Collet	•	
CJ500-77	9/16" Dowel Pin Collet	•	
CJ500-78	5/8" Dowel Pin Collet	•	
CJ500-79	M6 Dowel Pin Collet		•
CJ500-80	M8 Dowel Pin Collet		•
CJ500-81	M10 Dowel Pin Collet		•
CJ500-82	M12 Dowel Pin Collet		•
CJ500-83	M14 Dowel Pin Collet		•
CJ500-84	M16 Dowel Pin Collet		•



CJ500-2

## Dowel Pin Puller Sets

- Collet geometry engineered to grip pins or studs nearly flush with the work surface
- Forwards/backwards compatible with corresponding CG series collets and housings
- Bright and clean nickel-chrome finish creates a corrosion resistant surface that withstands chemicals and solvents for prolonged tool life
- Manufactured from special alloy steel and treated for optimum strength and durability
- Closed cell cross-linked foam for superior performance and durability resists oils, solvents and fuels—easy to clean

### CJM503 7 pc Metric Dowel Pin Puller Set

- Includes (6) metric collets 6–16 mm and (1) dowel pin collet housing in a foam organizer

### CJ503 8 pc SAE Dowel Pin Puller Set

- Includes (7) SAE collets 1/4–5/8" and (1) dowel pin collet housing in a foam organizer



CJM503



CJ503



CJ500P1



CJ500H3



CJ500-20



CJ500-24

## Pipe Nipple and Hex Bolt Collets

Stock No.	Description
CJ500P1	1/8" NPT Collet
CJ500P2	1/4" NPT Collet
CJ500P3	3/8" NPT Collet
CJ500H1	3/8" Hex
CJ500H2	7/16" Hex
CJ500H3	1/2" Hex Collet
CJ500H4	9/16" Hex

## Serrated Collets

- Serrated gripping portions are used to remove unthreaded studs that cannot be removed with standard collets due to the lack of gripping surface
- Avoid bottoming or shouldering the studs to eliminate shearing or damaging the stud or workpiece

Stock No.	Description
CJ500-20	1/4" Serrated Collet
CJ500-21	5/16" Serrated Collet
CJ500-22	3/8" Serrated Collet
CJ500-23	7/16" Serrated Collet
CJ500-24	1/2" Serrated Collet

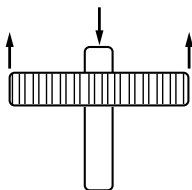


- Wear safety goggles (user and bystanders).
- For hand use only.
- Read Safety Precautions on pages W1–W4

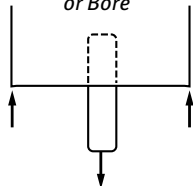
# PULLERS

What type of puller do I want to use? What combination will work best?

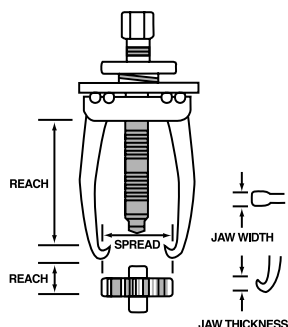
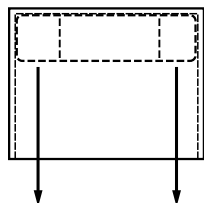
Removing a Gear, Bearing, Pulley, or Other Component from a Shaft



Pulling a Shaft Out of a Housing or Bore



Removing a Bearing or Bushing from a Blind Hole



## Tools to Use

**Jaw-Type Puller:** Two- or three-jaw style, with three 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 the components.

**Slide Hammer Puller:** Used on light-duty applications. For use with attachments.

**Bar-Type Puller with Bearing Separator:** Bar type with side rods threaded into the bearing separator provides a “knife edge” to get behind the 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:** Used when the housing lacks sufficient surface for puller side rods to bear against.

**Slide Hammer Puller:** Used 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.

**Bearing Adaptors with Slide Hammer Puller:** CJ127A, CJ128A and CJ137 bearing adaptors with a CJ97-3A slide hammer should be used in this application.

**Bar-Type Puller with Bearing Separator:** Bar type with side rods threaded into the bearing separator provides a “knife edge” to get behind the 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 Rules for Choosing 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 that allows the puller jaws to easily lock onto the work surface for both “outside” and “inside” pulling applications.

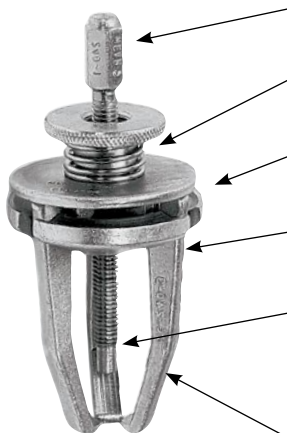
**Two-Position Yoke:** Allows jaws to be easily reversed to accommodate inside or outside pulling situations. Interchangeable yokes accommodate two and three jaw setups. Yokes are heat treated for additional strength and safety.

**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 the 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.



## Light-Duty Pullers

Builds pullers

Up to 2-1/2 tons of pulling power 3" diameter capacity for outside pulls

- Easy to use: spring loaded locking mechanism allows the puller jaws to easily lock onto with work surface for both "Inside" and "Outside" pulling applications, reducing the puller slipping off the application—two-handed operation without the use of tools
- Interchangeability: reversible jaw design, two position yokes that accommodate multiple jaw lengths, and spring loaded mechanism allows quick changeover without the disassembly of the puller and without the need of nuts and bolts resulting in faster set-ups and fewer man-hours
- Strength and Durability: one-piece jaw construction that does not use pins or bolts, provides a stronger, safer jaw
- Power pressure screws have rolled threads and are heat-treated for strength and durability
- Forged jaws and yokes are heat-treated for max strength and durability

### CJ240 13 pc Light Duty General Purpose Puller Set

• Set includes:

- (1) CJ243-3 3-Jaw Yoke; (1) CJ240-2 2-Jaw Yoke;
- (3) CJ240-3 2-1/2" Jaws; (3) CJ240-10 3-1/2" Jaws; (1) CJ243-5 Lock Plate; (1) CJ240-11 Pressure Screw; (1) CJ240-6 Spring and (1) CJ240-7 Adjustable Lock Nut



CJ240

### CJ2400 27 pc Light Duty Manual Interchangeable Master Puller Set

• Set includes:

- (1) CJ240-11 Pressure Screw; (1) CJ240-3 2-Jaw Yoke; (1) CJ243 3-Jaw Yoke; (3) CJ240-3 2-1/2" Jaws; (1) CJ243-5 Lock Plate; (1) CJ240-6 Spring; (1) CJ240-7 Adjustable Lock Nut; (1) CJ93-1 Slide Screw; (1) CJ125-6 Slide Hammer; (1) CJ93-3-1A Jaw Holder; (2) A78-6D Jaw Pins; (2) A78-4 1-5/8" Jaws; (2) A78-3 2" Jaws; (1) CJ93-4 Double Hook; (1) CJ93-5 Hook; (1) CJ93-6B Body Dent Puller Adaptor; (1) CJ93-7 Stud Puller Adaptor 5/16"-24; (1) CJ93-8 Stud Puller Adaptor 3/8"-24 and (1) CJ107-1A Tapered Screw



CJ2400

### CJ240HMRFR Light Duty General Purpose 2 lb Slide Hammer Set

- 2 lb knurled slide hammer provides maximum transfer force on the part to be removed
- Slide screw threads are standard and interchangeable with many Snap-on® puller yokes
- Slide screw has rolled threads instead of cut threads for optimum strength and durability
- Slide screw is heat-treated for optimum strength and durability
- Industrial finish helps protect against corrosion (slide screw)



CJ240HMRFR



- Screen the puller application
- Inspect the puller; do not use damaged parts.
- Use the proper type and size of puller for the job.
- Read Safety Precautions on pages W1-W4

## PULLERS: GENERAL PURPOSE INTERCHANGEABLE



CJ250



CJ250HMRFR

### Medium-Duty Pullers

Builds pullers:

Medium-duty pullers deliver up to 7-1/2 tons of pulling power, 4-1/2" diameter capacity for outside pulls and from 3/4–8" diameter capacity for inside pulls. CJ652 and CJ250HYD Hydraulic Conversion Sets convert manual pullers to hydraulic power. The manual components of the indicated medium-duty pullers are included in the heavy-duty CJ2500 sets.

#### CJ250 13 pc Medium-Duty General Purpose Puller Set

- **Easy to use:** Spring loaded locking mechanism allows the puller jaws to easily lock onto work surface for both “inside” and “outside” pulling applications, preventing the puller from slipping off the application—two-handed operation without the use of tools
- **Interchangeability:** reversible jaw design, two-position yokes that accommodate multiple jaw lengths, spring loaded mechanism allows quick changeover without the disassembly of the puller and without the need of nuts and bolts resulting in faster set-ups and fewer man-hours
- **Strength and durability:** One-piece jaw construction that does not use pins or bolts, provides a stronger, safer jaw; power pressure screws are roll threaded and heat-treated for strength and durability; forged jaws and yokes are heat-treated for maximum strength and durability

#### CJ250HMRFR General Purpose 2-1/2 lb Slide Hammer Set

- 2-1/2 lb slide hammer provides maximum transfer force on the part to be removed
- Slide screw threads are standard and interchangeable with many Snap-on® puller yokes
- Slide screw has rolled threads instead of cut threads for optimum strength and durability
- Slide screw is heat-treated for optimum strength and durability
- Industrial finish helps protect against corrosion (slide screw)
- Ergonomic handle grip
- Male adaptor adds versatility to the pulling and pushing capabilities of general purpose and bar-type pullers

#### CJ652 6-Ton Hydraulic Pump and Ram Set

- Hydraulics allow for smooth controlled loading and unloading
- Provides an even application of force
- Does not require a screw to be turned, compensation for counter rotation not required (non-rotational)
- Hydraulic rams can be used in push or pull direction depending on orientation
- Reduced input effort resulting in easy operation for the user
- Interchangeable tips reduce damage on workpiece and are easily swapped out
- Second “grip” handle allows for use of pump while standing in addition to being able to be used on a table or tool box
- 6' hose allow technician to use hydraulic pullers on lift or in a remote location



CJ652

#### CJ250HYD 6-Ton Hydraulic Conversion Add-on

- Includes the 2-Jaw and 3-Jaw hydraulic yokes and hand wheel adaptor
- Add-on to the CJ652 to convert the CJ250 to Hydraulic
- Yokes have through hole for easy pass through of the hydraulic screw
- Chrome/nickel-alloy finish resists rust and corrosion



CJ250HYD

#### CJ250-A1310 A1310 Adaptor for CJ250

- Allows use of various drivers and adaptors with CJ250 jaw pullers, giving the technician the flexibility to interchange with tools they already own
- Adaptor assists in maintaining square alignment for ideal force application
- Allows technician to assemble their own specialized tool configuration to service difficult or uncommon jobs with ease
- Works with most Snap-on® 5/8"-18 pressure screws
- Works with A1310B and A1310SB bearing race and seal driver disks; A157, A257, A160M and A261M bushing driver disks and BJP1 cups utilizing the A1310SB-BJP1 adaptor



CJ250-A1310

# PULLERS: GENERAL PURPOSE INTERCHANGEABLE

## Heavy-Duty

Stock No.	Description	Maximum Spread, inches (mm) outside	Maximum Spread, inches (mm) inside	Jaw Configuration
CJ2500SB	43 pc Heavy Duty Manual Interchangeable Master Puller Set (with Tool Control Board, Wall Cabinet)	1-1/2-13-7/8 (38-352)	1-1/2-11-1/2 (38-292)	2 and 3 Jaw
CJ2500S	43 pc Heavy Duty Manual Interchangeable Master Puller Set (with Tool Control Board)	1-1/2-13-7/8 (38-352)	1-1/2-11-1/2 (38-292)	2 and 3 Jaw
CJ2500	Heavy-Duty Manual Interchangeable Master Puller Set	1-1/2-13-7/8 (38-352)	1-1/2-11-1/2 (38-292)	2 and 3 Jaw
CJ270	13 pc Heavy-Duty General Purpose Puller Set	10 (254)	2-1/2-7-1/2; 3-8 (63.5-190.5; 76-203)	2 and 3 Jaw



### CJ270 13 pc Heavy-Duty General Purpose Puller Set

- **Easy to use:** Spring loaded locking mechanism allows the puller jaws to easily lock onto work surface for both “inside” and “outside” pulling applications, preventing the puller from slipping off the application—two-handed operation without the use of tools
- **Interchangeability:** reversible jaw design, two-position yokes that accommodate multiple jaw lengths, spring loaded mechanism allows quick changeover without the disassembly of the puller and without the need of nuts and bolts resulting in faster set-ups and fewer man-hours
- **Strength and durability:** one-piece jaw construction that does not use pins or bolts, provides a stronger, safer jaw; power pressure screws are roll threaded and heat-treated for strength and durability; forged jaws and yokes are heat-treated for maximum strength and durability

### CJ270HMRFR Heavy-Duty General Purpose 3.8 lb Slide Hammer Set

- 3.8 lb slide hammer provides maximum transfer force on the part to be removed
- Slide screw threads are standard and interchangeable with many Snap-on® puller yokes
- Slide screw has rolled threads instead of cut threads for optimum strength and durability
- Slide screw is heat-treated for optimum strength and durability
- Industrial finish helps protect against corrosion (slide screw)
- Ergonomic handle grip

### CJ1052 10-Ton Hydraulic Pump and Ram Set

- Hydraulics allow for smooth controlled loading and unloading
- Provides an even application of force
- Does not require a screw to be turned, compensation for counter rotation not required (non-rotational)
- Hydraulic rams can be used in push or pull direction depending on orientation
- Reduced input effort resulting in easy operation for the user
- Interchangeable tips reduce damage on workpiece and are easily swapped out
- Second “grip” handle allows for use of pump while standing in addition to being able to be used on a table or tool box
- 6’ hose allow technician to use hydraulic pullers on lift or in a remote location



### CJ270HYD 10-Ton Hydraulic Conversion Add-on

- Includes the 2-Jaw and 3-Jaw hydraulic yokes and hand wheel adaptor
- Add-on to the CJ1052 to convert the CJ270 to Hydraulic
- Yokes have through hole for easy pass through of the hydraulic screw
- Chrome/nickel-alloy finish resists rust and corrosion



### CJ270-A1310 A1310 Adaptor for CJ270

- Allows use of various drivers and adaptors with CJ270 jaw pullers, giving the technician the flexibility to interchange with tools they already own
- Adaptor assists in maintaining square alignment for ideal force application
- Allows technician to assemble their own specialized tool configuration to service difficult or uncommon jobs with ease
- Works with most Snap-on® 3/4"-16 pressure screws, which can be found in the CJ series jaw pullers and bar pullers
- Works with A1310B and A1310SB bearing race and seal driver disks; A157, A257, A160M and A261M bushing driver disks and BJP cups by utilizing the A1310SB-BJP1 adaptor



### CJ4-2GAKT 6- and 10-Ton Add-on Set

- Gauge makes it easy for user to know how much force they are applying to the work piece
- Use with CJ652 and CJ1052 Hydraulic Pump/Ram sets
- Calibrated in dual scale reading in psi and bar

- All pressure sensing parts sealed and dampened by glycerin for long life
- Includes safety blow-out disk and pressure equalizing membrane
- 45° angled gauge adaptor improves visibility of the gauge
- Slim and narrow design of the gauge adaptor
- Easy to fit in a broad range of systems
- Maximize controlled load movement



- Screen the puller application.
- Inspect the puller; do not use damaged parts
- Use the proper type and size of puller for the job.
- Read Safety Precautions on pages W1-W4

**PULLERS: GENERAL PURPOSE INTERCHANGEABLE**



**CJ2400**



**CJ2500**



**CJ2500S**



**CJ2500SB**

**Master Sets**

- **Easy to use:** Spring loaded locking mechanism allows the puller jaws to easily lock onto work surface for both "inside" and "outside" pulling applications, preventing the puller from slipping off the application—two-handed operation without the use of tools
- **Interchangeability:** Reversible jaw design, two-position yokes that accommodate multiple jaw lengths, spring loaded mechanism allows quick changeover without the disassembly of the puller and without the need of nuts and bolts resulting in faster set-ups and fewer man-hours
- **Strength and Durability:** one-piece jaw construction that does not use pins or bolts provides a stronger, safer jaw; power pressure screws are roll threaded and heat-treated for strength and durability; forged jaws and yokes are heat-treated for maximum strength and durability

**CJ2400 Light-Duty Manual Interchangeable Master Puller Set**

- Set includes: (1) CJ240-11 Pressure Screw; (1) CJ240-3 2-Jaw Yoke; (1) CJ243 3-Jaw Yoke; (3) CJ240-3 2-1/2" Jaws; (1) CJ243-5 Lock Plate; (1) CJ240-6 Spring; (1) CJ240-7 Adjustable Lock Nut; (1) CJ93-1 Slide Screw; (1) CJ125-6 Slide Hammer; (1) CJ93-3-1A Jaw Holder; (2) A78-6D Jaw Pins; (2) A78-4 1-5/8" Jaws; (2) A78-3 2" Jaws; (1) CJ93-4 Double Hook; (1) CJ93-5 Hook; (1) CJ93-6B Body Dent Puller Adaptor; (1) CJ93-7 Stud Puller Adaptor 5/16"-24; (1) CJ93-8 Stud Puller Adaptor 3/8"-24 and (1) CJ107-1A Tapered Screw
- Interchangeability of components creates (36) puller configurations and works with other CJ pullers in the product line

**CJ2500 Heavy-Duty Manual Interchangeable Master Puller Set**

- Set includes: (1) CJ250-413 Pressure Screw and Point, (1) CJ250-5 Lock Plate, (1) CJ250-6 Spring, (1) CJ250-7 Adjusting Nut, (1) CJ250-9 2-1/2 lb Slide Hammer, (1) CJ253-2 3-Jaw Yoke, (3) CJ270-10 Long Jaws, (1) CJ270-1117 Pressure Screw and Point, (3) CJ270-12 15" Jaws, (1) CJ270-1317 Screw Adaptor and Point, (1) CJ270-1417 Slide Screw with Center Point, (1) CJ270-2 2-Jaw Yoke, (3) CJ270-3 5-1/2" Jaws, (3) CJ270-3S Special Grip Jaw Pullers, (1) CJ270-6 Spring, (1) CJ270-7 Adjustable Lock Nut, (1) CJ273-2 3-Jaw Yoke, (1) CJ273-5 Lock Plate, (1) CJ97-3A 3-3/4 lb Slide Hammer, (1) ME4A8 3/4" Lock Nut and (1) ME4A4 5/8"-18 Nut

**CJ2500S Heavy-Duty Manual Interchangeable Master Puller Set (with Tool Control Board)**

- Includes CJ2500 set, mounted on a VE113C tool control board
- Board has part number markings to help reorder used and damaged parts
- Contrasting colors provide visual control which reduces time searching for missing tools
- Tool control board for this set is VE113C

**CJ2500SB Heavy-Duty Manual Interchangeable Master Puller Set (with Tool Control Board, Wall Cabinet)**

- Includes CJ2500 set, mounted on a VE113C tool control board in a cabinet
- Board has part number markings to help reorder used and damaged parts
- Contrasting colors provide visual control which reduces time searching for missing tools
- Tool control board for this set is VE113C
- Wall cabinet is KRA276D

## Bar-Type Interchangeable Pullers

Interchangeable bar-type 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 mean 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-type pullers also feature:

- Replaceable pressure screw points help to keep the puller safely centered
- Multiposition yokes help keep the jaws properly aligned with the item being pulled
- Adjustable clamp bolts allow the jaws to be snugged up against the job for a safer, more convenient pull
- Spring ball pin retention securely holds the jaws while allowing for quick jaw changes



CJ83C

### 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 (2) 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 ton



CJ82B

### CJ82B Pitman Arm Puller

- Handles many pitman arm applications and a wide variety of general pulling jobs
- Nominal capacity is 6 ton



CJ80A

### CJ80A A/C Pulley Puller

- Excellent for the 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 ton



CJ85A

### CJ85A Truck Differential Side Bearing Puller

- Similar in appearance to CJ81D but bigger for handling truck applications
- Four centering plates are included
- Nominal capacity is 7-1/2 ton



CJ81D

### CJ81D Differential Side Bearing Puller

- Narrow jaws slip into housing grooves in the back of the bearing and let the jaws seat and pull along with the inner race
- Jaws are locked onto the bearing by a clamp bolt
- Four centering plates are included
- Nominal capacity is 6 ton

## CJ Series Major Components (see chart on next page)

Specifications	CJ80A	CJ85A	CJ82B	CJ83C	CJ81D
Nominal Capacity, tons	7.5	7.5	6	3.5	6
Maximum Reach, inches	D3: 1-5/8, D5: 1-3/8	1-3/4	2-1/4	Variable	1-5/8
Maximum Spread, inches	5	5-1/2	3-3/8	5	3-3/8
Pressure Screw Size, inches	3/4-16 x 3-1/2	3/4-16 x 4-1/4	3/4-16 x 4-1/4	3/4-16 x 3-1/2	3/4-16 x 4-1/4
Optional Jaws	D1, D2, D4	D1, D2, D3, D5	D1, D2, D4, D5	—	D1, D2, D4, D5
Optional Points	C2	C2	C2	C2	C2
Optional Pressure Screws	B1, B2	B1, B3	B1, B3	B1, B2	B1, B3
A Yoke	A3	A3	A4	A4	A4
B Pressure Screw	B3	B2	B2	B3	B2
C Point	C1	C1	C1	C1	C1
D Jaws (2)	D3, D5	D4	D3	—	D3
E Clamp Bolt	E3	E3	E4	—	E4
F Washers (2)	F1	F1	F1	F2, F3	F1
G Clamp Nuts (2)	G1	G1	G1	—	G1
H Jaw Pins (2)	H1	H1	H1	—	H1
J Adaptors	—	J2	—	—	J1
K Studs (2)	—	—	—	K1, K2, K3	—



- Screen the puller application.
- Inspect the puller; do not use damaged parts
- Use the proper type and size of puller for the job.
- Read Safety Precautions on pages W1-W4

# PULLERS: BAR-TYPE INTERCHANGEABLE



## CJ Interchangeable Pullers—Major Components

	Component	Key No.	Stock No.	Specific Dimensions		Set Contains:				
				Usable Range, inches	Pin Holes per Side	CJ83C	CJ82B	CJ81D	CJ85A	CJ80A
	Yoke	A1	CJ100-1	10-1/2-16	4					
	Yoke	A2	CJ118-1	6-10-1/2	3					
	Yoke	A3	CJ85-1	3-6-1/2	3					•
	Yoke	A4	CJ86-1	1-3/4-4-1/2	2	•	•	•		
	Pressure Screw	B1	CJ105-3	3/4-16 x 10-1/2	7/8					
	Pressure Screw	B2	CJ83-2	3/4-16 x 6-11/16	7/8			•	•	•
	Pressure Screw	B3	CJ83-3	3/4-16 x 5-1/8	7/8	•				•
	Point	C1	CJ66-15-3	5/8	90° Outward	•	•	•	•	•
	Point	C2	CJ84-16	7/8	90° Outward					
	Jaws (2 needed)	D1	CJ116-1	8-1/4	—					
	Jaws (2 needed)	D2	CJ282-1	4-3/8	—					
	Jaws (2 needed)	D3	CJ81-2A	1-3/8	—		•	•		•
	Jaws (2 needed)	D4	CJ85-2	1-3/4	—				•	
	Jaws (2 needed)	D5	CJ87-1	1-3/8	—					•
	Clamp Bolts	E1	CJ100A2	18	—					
	Clamp Bolts	E2	CJ118-2A	11-1/2	—					
	Clamp Bolts	E3	CJ85-3A	7-1/2	—				•	•
	Clamp Bolts	E4	CJ86-4A	5	—		•	•		
	Washer (2 needed)	F1	CJ85-4	15/32	7/8		•	•	•	•
	Washer (1 needed)	F2	ME5A54	11/32	11/32	•				
	Washer (1 needed)	F3	ME5A55	9/32	3/4	•				
	Clamp Nuts (2 Needed)	G1	ME4A33	7/16 x 20	—		•	•	•	•
	Jaw Pins (2 needed)	H1	CJ105-11	5/16	1-15/32		•	•	•	•
	Adaptors (Set of 4)	J1	CJ81B1A	1-1/2	1-1/8				•	
			CJ81B2A	1-5/8	1-1/4				•	
			CJ81D1A	1-3/4	1-1/8				•	
			CJ81D2A	1-11/32	15/16				•	
	Adaptors (Set of 4)	J2	CJ85-5	2	1-1/2					•
			CJ85-6	2-1/8	1-21/32					•
			CJ85-7	2-1/2	1-27/32					•
			CJ85-8	3-1/16	2-3/8					•
	Studs (2 needed)	K1	ME3A44	3/4-16 x 3	—	•				
	Studs (2 needed)	K2	ME3A45	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 on previous page (A3, B1, C1, etc.)

# PULLERS: BAR-TYPE INTERCHANGEABLE



CJ2002

## Gear Puller Set

### CJ2002 Gear Puller Set

- For use on Pitman arms, timing gears, carrier side bearings and more
- Combine to create 10 different pullers
- 6–10-ton capacity depending on yoke and jaws used

### CJ66-15-3 Centering Point

- 5/8" head, 90° outward point

### CJ81-2A Jaw

- 1-3/8" Maximum Reach

### CJ83-2 Pressure Screw

- 3/4–16 x 6-11/16"

### CJ83-3 Pressure Screw

- 3/4–16 x 5-1/8"

### CJ84-16 Centering Point

- 7/8" head, 90° outward point

### CJ85-1 Yoke

- Range 3–6-1/2"

### CJ85-3A Clamp Bolt

- 7/16"-20 x 8-1/16"

### CJ85-4 Washer

- Inside diameter 15/32"
- Outside diameter 7/8"

### CJ86-1 Yoke

- 1-3/4–4-1/2"

### CJ86-4A Clamp Bolt

- 5" maximum length

### CJ87-1 1-3/8" Jaw

### CJ105-11 Long Jaw Pin

- 5/16" dia., 1-15/32" long

### CJ282-1 4-3/8" Jaw

### ME4A33 Hex Nut (4)

## 6-Ton Capacity (5.41 t), Tapped Hole

Stock No.	Description	Maximum Spread, inches (mm)	Maximum Reach, inches (mm)	Pressure Screw Size, inches	Side Rod Adaptors (2 each)	Side Rods (2)
CJ84C	Basic Bar-Type Manual Tapped Hole Puller Set	2-5/8–11-5/8 (67–295)	—	1-14 x 33	—	5/8-18 x 10
CJ840C	Complete Bar-Type Manual Tapped Hole Puller Set	2-5/8–11-5/8 (67–295)	33 (838)	1-14 x 33	3/8–24; 3/8–16; 5/16–24; 5/16–18; 7/16–20; 5/8–18; 5/8–11; 7/16–14; 1/2–20; 1/2–13; 3/4–16; 3/4–10	1/2-20, 1/2-13, 3/4-16, 3/4-10

### CJ84C Basic Bar-Type Manual Tapped Hole Puller Set

- CJ840C less all adaptors and side rods except 5/8"-18 x 10"

### CJ840C Complete Bar-Type Manual Tapped Hole Puller Set

- Side rods in set are provided 2 each in 5", 10" and 20" lengths



CJ840C

## BAR-TYPE PULLER ADAPTORS

### Male Adaptors

Stock No.	Description	Female Thread	Male Thread
CG656-12	5/8"-18 Adaptor	7/16"-14	5/8"-18
CJ84-10	Male Adaptor	5/8"-18	3/8"-16
CJ84-11	Male Adaptor	5/8"-18	1/2"-13
CJ84-12	Male Adaptor	5/8"-18	5/8"-11
CJ84-13	Male Adaptor	5/8"-18	3/4"-16
CJ84-14	Male Adaptor	5/8"-18	3/4"-10
CJ84-15	Male Adaptor	5/8"-18	5/16"-18
CJ84-17	Male Adaptor	5/8"-18	5/8"-18
CJ84-18	Male Adaptor	5/8"-18	7/16"-14
CJ84-6	Male Adaptor	5/8"-18	5/16"-24
CJ84-7	Male Adaptor	5/8"-18	3/8"-24
CJ84-8	Male Adaptor	5/8"-18	7/16"-20
CJ84-9	Male Adaptor	5/8"-18	1/2"-20



CG656-12



CJ84-10



- Screen the puller application.
- Inspect the puller; do not use damaged parts.
- Use the proper type and size of puller for the job.
- Read Safety Precautions on pages W1–W4

**PULLERS: AUTOMOTIVE**



CJ134



CJ131P



CJ145



CJ3PSB



CJ89

CJ115



PAR1490



YA6880

**Steering Wheel Pullers**

**CJ134 Tilt Steering Pivot Pin Puller**

- Allows efficient removal of the two pivot pins on all tilt steering columns used on Chrysler®, Ford® and GM® vehicles

**CJ131P Steering Wheel Puller and Lock Plate Depressor Set**

- Includes a selection of bolts and a handle in a 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 the puller when turning force is applied to the pressure screw
- Industrial finish

**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 setup 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 and K series trucks, 1998 full size vans, 1998 Astro/Safari vans), Oldsmobile (1997 and later Cutlass) and Pontiac® (1988-1993 LeMans, 1997 and later Grand Prix®/Trans Sport vans)

**Power Steering Pullers**

**CJ3PSB 8 pc Power Steering Puller Set**

- One-piece reversible dual yoke utilizes a cup design to provide more surface contact reducing the chance of slippage or surface damage
- Puller driver assembly incorporates a 1" hex, thrust bearing and Fine thread Pressure screw permitting easy turning while providing maximum loading, which results in flush installation with positive stop
- All adaptors are designed to use with a single pressure screw further reducing the number of tools needed for greater user convenience
- Reversible dual yoke, one-piece driver, and a single pressure screw with multiple adaptors allows quick changeover resulting in faster set-ups and fewer man-hours
- Power Pressure screws and Installer adaptors are roll threaded and heat-treated for strength and durability
- The yoke and driver are heat-treated for max strength and durability and zinc plated to prevent corrosion

**Pitman Arm Pullers**

**CJ89 Pitman Arm Puller**

- Designed for most U.S. cars and light trucks
- 3/4"-16 x 6-7/8" pressure screw size
- Industrial finish

**CJ115 Pitman Arm Puller**

- Similar in design to CJ119B except it is designed for compact and intermediate size cars

**PAR1490<sup>‡</sup> Super-Duty Pitman Arm Popper**

- Fits short sector shaft and long sector shafts with a bolt or nut attachment
- Forged from alloy steel
- Heat-treated for rigidity and durability
- Fine pitch thread for reduced effort
- Ball bearing tip to protect the sector shaft

**PAR1988<sup>‡</sup> Medium-Duty Pitman Arm Remover**

- Patented design uses leverage action and requires less torque and space than other pitman arm tools and removal methods
- Low clearance design works on steering gear mounted in the vehicle
- Accommodates pitman arms that are 3" wide
- Forged alloy steel construction securely locks the tool in place

**PAR6880<sup>‡</sup> High-Leverage/Low-Profile Pitman Arm Puller**

- Fits inside confined spaces and eliminates the need to remove the steering gearbox
- Works on most Pitman arm applications
- Enables technician to work safely and more efficiently, increasing profit-earning potential
- Opening for steering box/pitman arm is approx. 1-1/2" and is designed for Sector Shafts measuring 1.35" diameter
- Accepts pitman arms 2.60" wide
- Gearbox-to-Pitman Arm clearance measuring 0.250"
- Manufactured with forged chromoly steel construction

**YA6880<sup>‡</sup> Low-Profile Pitman Arm Puller**

- Fits in the confined space on most GM® (1988-2000 C and K Series chassis) trucks and SUVs; also fits 2001-present trucks and SUVs with steering gear box/pitman arms
- Forged chromoly steel for strength and durability
- Design allows the technician save time removing the arm off of the steering gear box without altering the boxes position

**Harmonic Damper Pulley Pullers**

**HDP6490<sup>‡</sup> Harmonic Damper Pulley Puller**

- Includes (6) different length push rods and special patent pending tip
- New spring-loaded legs allow for leg position retention
- Provides greater ease and control when installing the puller in confined areas
- Removes 3- and 6-spoke harmonic damper pulleys found on many Chrysler® and GM® engines
- Eliminates the need to remove the radiator or other components

**HDP1345<sup>‡</sup> Harmonic Damper Pulley Puller**

- Specially designed to pull at three points on the ledges of the pulley with less chance of damage and applies equal force when pulled; can save up to 30 minutes per job
- Spring-loaded legs retain position and have correct geometry for Dodge® pulleys
- Gives greater ease and control when installing the puller in confined areas
- Eliminates the time consuming process of removing the radiator and other components
- Includes (6) push rods in multiple lengths and special patent pending tip

**HDP1740<sup>‡</sup> Two-Jaw Harmonic Pulley Puller**

- Specially designed two-jaw puller for smaller cars with four-spoke pulleys
- Patent-pending side-turn legs quickly and easily grab the pulley
- Compact low profile narrow design fits the small pockets found on most pulleys
- Spring-loaded legs maintain their position and save time as the puller is positioned on the pulley

**CJ146 Crankshaft Harmonic Balancer Kit**

- Remove the crankshaft harmonic balancer on 1990 and later 3.3 L and 3.8 L GM® engines
- Shoulder bolt adaptors provide the correct installation depth, preventing damage to the crank sensor and interrupter rings
- Includes (3) CJ146-1 adaptors, (1) CJ146-2 extension and vinyl storage pouch
- Requires Snap-on® CJ98-1 yoke and CJ83-3 pressure screw for use (not included)

**HDP1835<sup>‡</sup> Harmonic Damper Pulley Puller for Ford®/GM®**

- Revolutionary low-profile legs fit smaller narrow pulley pockets and have the correct geometry to work on a wide range of applications because the legs grasp on the backside of the spoke
- New design increases the bite of the leg to the pulley as it's tightened
- Compact design accommodates tight engine compartments
- Spring-loaded legs maintain position to save time as the puller is positioned on the harmonic damper pulley
- Saves the average user approximately 30 minutes

**HDP1800<sup>‡</sup> 15 pc Master Harmonic Damper Pulley Puller Set**

- Combines (4) harmonic pulley puller kits into one master kit
- Features three styles of legs including the unique patent-pending, industry-exclusive side-turn legs
- Includes an extra set of spring washers and a spare clevis pin
- Compact design has everything needed inside a blow-molded case

**HDP1800-1<sup>‡</sup> 3-Jaw Pulley Puller Hub**

**HDP1800-2<sup>‡</sup> 2-Jaw Pulley Puller Hub**

**HDP1800-3<sup>‡</sup> Pulley Puller Center Bolt**

**HDP1800-4<sup>‡</sup> Push Rod Tip**

**HDP1800-5<sup>‡</sup> Detent Clevis Pin**

**HDP1800-6<sup>‡</sup> Side Turn Leg Spring Style**

**HDP1800-7<sup>‡</sup> Leg Chrysler® Spring Style (Gold)**

**HDP1800-8<sup>‡</sup> Leg Universal Spring Style**

**HDP1800-9<sup>‡</sup> 3" Pulley Puller Push Rod**

**HDP1800-10<sup>‡</sup> 2" Pulley Puller Push Rod**

**HDP1800-11<sup>‡</sup> 5.4" Pulley Puller Push Rod**

**HDP1800-12<sup>‡</sup> 4" Pulley Puller Push Rod**

**HDP1800-13<sup>‡</sup> 7-1/2" Pulley Puller Push Rod**

**HDP1800-14<sup>‡</sup> 6-1/2" Pulley Puller Push Rod**

**HDP1800-15<sup>‡</sup> Wavy Washer Spring Pack**

**HDP1800-CASE<sup>‡</sup> Blow Molded Box**



**CJ146**



**HDP1345**

• Screen the puller application.

• Inspect the puller; do not use damaged parts.

• Use the proper type and size of puller for the job.

‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.

• Read Safety Precautions on pages W1-W4



**WARNING**

**PULLERS: AUTOMOTIVE**



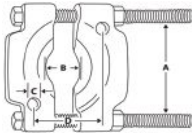
YA6491A

**Harmonic Balancer**

**YA6491A<sup>†</sup> Harmonic Damper Pulley Puller Update Kit (Blue-Point®)**

- Updates earlier YA9740 pullers to the same applications as the new YA6490A
- Kit updates other pulley pullers that are similar to the YA9740 series of pullers
- Add YA6491 Update Kit to the existing YA9740 series pullers to add these new applications: GM® 4.2 L Straight 6-cylinder; Chevrolet® Trailblazer®, Colorado®; GMC® Envoy, Canyon® (2004-later); Oldsmobile Bravada (2003-later); Buick® Rainier® (2004-later) 3.5 L Straight 5-cylinder; Hummer® H3 (2006-later) 2.8 L Straight 4-cylinder

**PULLERS: SPECIAL PURPOSE**



**Bearing Separators**

For separating and pulling double bearings and close-fitting gears. Use with tapped hole, two-jaw pullers or floor presses.



CJ949

Stock No.	A	B, Maximum Spread	B, Minimum Spread	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	7/8"-14	14-7/16



A78

**Small/Pilot/Ball Bearing Pullers**

**A78 Small Bearing Puller**

- For bearings and bushings typically found in small electric motors
- Includes a large jaw set for bronze and oilite bushings, small jaw set for smaller bearings and bushings
- Up to 3 tons of pulling power
- Working range is 1/2-2"

**SP2031A<sup>†</sup> 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



SP2031A

# PULLERS: COMPONENTS AND CONVERSION KITS

## Ford® Diesel Turbo Tools

### TVA1650† Turbo Vane Actuator Installer for Ford® Vehicles

- Simply rotate the arm up, slip the self-centering installer over the arm, and with two wrenches the stud is pushed into the arm in a matter of seconds
- Compact size allows tool to be used either on or off the truck
- Single-purpose design saves time and allows the user to work more efficiently while reducing the potential to damage parts during installation
- Fine thread actuator reduces the torque required to loosen the press fit



TVA1650

## DIESEL SERVICE SETS



CUMDS12V



CUMDS24V

## Cummins® B and C Series

Stock No.	Description	Applications				Set Contents	
		12 Valve	24 Valve			CUMDS12V	CUMDS24V
		Pre-1994	1994-1998-1/2	1999-2002	2003	12 Valve	24 Valve
EEPDS500†	Diesel Compression Gauge	•	•	•	•	•	
MB5D	Bronze Injector Brush (Blue-Point®)	•	•	•	•	•	
MB6BTA	9" Injector Brush (Blue-Point®)	•	•	•	•	•	
FRHM17	3/8" Drive 6-Point Metric 17 mm Flank Drive® Flare Nut Crowfoot Wrench	•			•		
FRXM17	3/8" Drive 6-Point Metric 17 mm Flank Drive® Flare Nut Socket	•			•		
M3584	Compression Adaptor	•					
FRHM19	3/8" Drive 6-Point Metric 19 mm Flank Drive® Flare Nut Crowfoot Wrench		•	•		•	
FRXM19	3/8" Drive 6-Point Metric 19 mm Flank Drive® Flare Nut Socket		•	•		•	
EEPV313C†	Diesel Compression Gauge Adaptor		•	•		•	
SP504	Gear Puller (Blue-Point®)		•	•		•	

### CUMDS12V 14 pc 12 Valve Diesel Set for Cummins® B and C Series Engines

- Includes 3/8" drive 6-point metric 17 mm flare nut socket and flare nut crowfoot wrench, 1/2" drive 6-point metric 24 mm deep socket, feeler gauge, diesel compression adaptor, bronze injector brush, stainless steel injector brush, injection pump wrench, 10 mm idle lock nut wrench, 12 mm diesel injector puller adaptor, M14 x 1.5 diesel injector puller adaptor, slide hammer injector puller, engine turning tool and 0–800 PSI diesel compression gauge
- Includes a tote bag

### CUMDS24V 14 pc 24 Valve Diesel Set for Cummins® B and C Series Engines

- 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
- Includes 3/8" drive 6-point metric 19 mm flare nut socket, 3/8" drive 6-point metric 19 mm flare nut crowfoot wrench, feeler gauge, bronze injector brush, stainless steel injector brush, gear puller, 8 mm diesel injector puller, 15 mm diesel injector puller, slide hammer injector puller, engine turning tool, diesel compression gauge adaptor, fuel line plug, fuel tube remover and 0–800 PSI diesel compression gauge
- Includes a tote bag

- Read and follow safety messages in Instructions.
- Do not expose gasoline or fuel to flames, sparks or other sources of ignition.
- Use only in well ventilated areas.
- Screen the puller application.
- Inspect the puller; do not use damaged parts.
- Use the proper type and size of puller for the job.

†These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.  
• Read Safety Precautions on pages W1–W4



## DIESEL: DIESEL SERVICE SETS



### Diesel Timing Gauge Set

#### SP500<sup>+</sup> Diesel Timing Gauge Set (Blue-Point®)

- Used to update existing 2017DSP diesel service sets to handle 1994–1998 Cummins® B engines used in Dodge® Ram® 250/350 pickup trucks and some Ford® trucks

#### SP5001<sup>+</sup> 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

#### SP5002<sup>+</sup> Gauge Holder (Blue-Point®)

- Used in the 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

#### SP503<sup>+</sup> Spline Socket (Blue-Point®)

- Used to remove and replace the delivery valve on most Bosch® fuel injection pumps

#### SP504 Gear Puller (Blue-Point®)

- Used to remove the injection pump gear
- Bolt thread is M8 x 1.25
- Bolt length is 44 mm

## DIESEL: SERVICE TOOLS FOR CUMMINS® ENGINES



### Pulley Installers and Pullers

#### 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 (2) 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 ton

#### 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 6 pc Torque Adaptor Set

- Used to loosen and adjust lock nuts to manufacturing specifications

#### ST669-1 Handle Assembly

- Included in the ST669 Torque Adaptor Set

#### 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 1/4" Drive 1/4" Flat Tip Short Bit Socket

- Manufactured from high-grade alloy steel



### Compression Adaptors/Injector Style

#### M3540C<sup>+</sup> Compression Adaptor

- For Cummins® 855 in<sup>3</sup> NH, and 903 V8 and L10 diesel engines

#### M3584C<sup>+</sup> Compression Adaptor

- For Case®/Cummins® Series B 2.9, 3.9 and 5.9 L diesel engines

#### M3585C<sup>+</sup> Compression Adaptor

- For Case®/Cummins® Series C 8.3 L engines

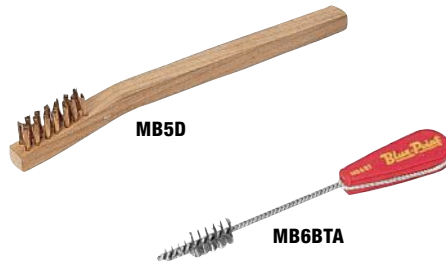
## Injector Brushes

### MB5D Bronze Injector Brush (Blue-Point®)

- Bronze non-abrasive brush cleans carbon from injector tips

### MB6BTA 9" Injector Brush (Blue-Point®)

- Stainless steel wire brush cleans the injector cavity in the cylinder head
- 9" long



## Fuel Line Tools

### CJ148 Fuel Line Plug

- For plugging fuel lines

### CJ149 Fuel Tube Remover

- For fuel inlet tubes on late-model vehicles

### YA6615† 24 mm Flare Nut Wrench for Cummins® (Blue-Point®)

- Used 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



## Air Compressor Fuel Pump Wrenches

### M1321 Air Compressor/Fuel Pump Wrench

- Includes a 5/8", 12-point box wrench on both ends
- Accommodates air compressor and fuel pump flange bolts on NH Series Inline 6-cylinder engines

### M1328A Air Compressor/Fuel Pump Wrench

- Includes a 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

### M1329 Fuel Pump Wrench

- Includes a 7/16", 12-point box end for servicing fuel pump bolts on NH Series engines equipped with Cummins® air compressors
- 6-5/8" long



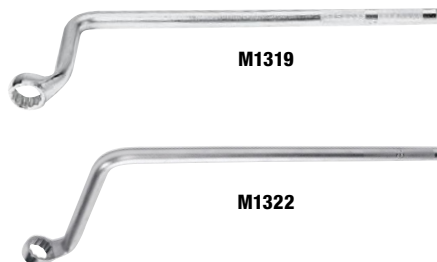
## Valve Adjusting Wrenches

### 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 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



- Read and follow safety messages in Instructions.
- Do not expose gasoline or fuel to flames, sparks or other sources of ignition.
- Use only in well ventilated areas.
- Screen the puller application.
- Inspect the puller; do not use damaged parts.
- Use the proper type and size of puller for the job.
- Wear safety goggles (user and bystanders).
- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.
- Read Safety Precautions on pages W1-W4



## DIESEL: SERVICE TOOLS FOR CUMMINS® ENGINES



CJ125A

### Injector Pullers

#### CJ125A Injector Puller

- Slide hammer puller services D, top stop and small V8 injectors
- 10-1/2" long



CJ140

#### CJ140 5 pc Diesel Injector Puller Set

- Used on fuel injectors in Cummins® B and C Series 3.9 L, 5.9 L and 8.3 L engines used in Dodge® pickups, Case® tractors and off-road equipment
- Will service all 1994–1998-1/2 standard injectors, as well as fuel inlet tubes

#### CJ140-1 Slide Hammer Injector Puller

- Used to pull injectors from heads on 1998-1/2–2002 Dodge® and Cummins® engines
- 8 x 1.25 mm thread
- Use the CJ144 Puller to pull the fuel inlet tube prior to removing the injector



CJ140-1

#### CJ141 Diesel Injector Puller Adaptor

- Used on Cummins® diesel injectors prior to 1994

#### CJ142 M14 Diesel Injector Puller Adaptor

- Used on Cummins® diesel injectors from 1994–1998-1/2

#### CJ143 8 mm Diesel Injector Puller

- Used on 1998-1/2 Cummins® diesel injectors in tight-access areas

#### CJ144 15 mm Diesel Injector Puller

- Used on 1998-1/2–2002 Cummins® diesel fuel inlet tubes



TSM24



TWM14A



YA9565A

### Cummins® B and C Series

#### TSM24 1/2" Drive 6-Point Metric 24 mm Flank Drive® Deep Socket

#### TWM14A 1/2" Drive 6-Point Metric 14 mm Flank Drive® Shallow Socket

#### YA9565A† Engine Turning Tool (Blue-Point®)

- Used to rotate the engine for making valve and injection pump adjustments on Cummins® and Case® 3.9 L, 5.9 L and 8.3 L B and C Series engines

## DIESEL TOOLS



FRXM21

### Engine Sockets

#### FRXM21 3/8" Drive 6-Point Metric 21 mm Flank Drive® Flare Nut Socket

- Manufactured from special steel with a higher alloy content
- Precision forged and heat-treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean



FTXEL45E

#### FTXEL45E 3/8" Drive TORX® T45 Extra-Long Bit 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
- Various applications on European vehicles

#### PPM516A 1/2" Drive SAE 1/2" Male Square Drain Plug Socket

- 1/2" square male end
- Extra strength to remove drain plugs
- 1-7/16" long



PPM516A



SIML200

#### SIML200 1/2" Drive 6-Point SAE 5/8" Flank Drive® 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

**Compression Adaptor**

**M3545C<sup>†</sup> Glow Plug Compression Adaptor**

- For Ford<sup>®</sup>/International 6.9/7.3 L, Mercedes-Benz<sup>®</sup> E320 and Westerbeke<sup>®</sup> Marine engines



**M3545C**

**Pulley Puller**

**SP448 Pulley Puller (Blue-Point<sup>®</sup>)**

- For removing the air pump pulley
- Fits over the pulley flange



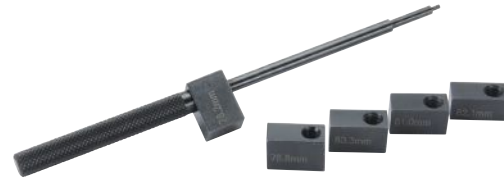
**SP448**

**Injector Height Gauges**

- Used to set injectors during installation and at set service intervals
- Knurled handle screws into the gauge at a 90° angle for work in close quarters

**SP7882 6 pc Diesel Injector Height Gauge Set**

- Five-in-one gauge set covers all applications for Detroit Diesel<sup>®</sup> 50 and 60 Series engines
- Includes (5) injector height gauges and (1) handle
- Includes a storage pouch



**SP7882**

**SP7882-1 Diesel Injector Height Gauge Handle**

**SP7882-782 Injector Height Gauge (78.2 mm) (Blue-Point<sup>®</sup>)**

**SP7882-788 Injector Height Gauge (78.8 mm) (Blue-Point<sup>®</sup>)**

**SP7882-803 Injector Height Gauge (80.3 mm) (Blue-Point<sup>®</sup>)**

**SP7882-810 Injector Height Gauge (81.0 mm) (Blue-Point<sup>®</sup>)**

**SP7882-821 Injector Height Gauge (82.1 mm) (Blue-Point<sup>®</sup>)**



**SP7882-1**

**Diesel Fuel System Tools**

**FPWD14<sup>†</sup> Duramax<sup>®</sup> Fuel Pressure Sensor Wrench**

- Saves hours of time by eliminating the need to remove the EGR cooler system and fuel rail—simply unbolt air conditioning compressor to remove the front EGR valve
- 2 pc design reduces the time required to service the fuel pressure release valve
- Tool slips onto the release valve from back to front allowing the handle to slide into the crescent end of the socket, making loosening the fuel pressure release valve easier



**FPWD14**

**Oil Rail Gauge**

**ORG1315<sup>†</sup> Oil Rail Gauge**

- Correctly determine dimension and select correct back-up ring when installing high-pressure oil manifolds
- Used to install high-pressure oil manifolds on International<sup>®</sup> DT466 and MaxxForce<sup>®</sup> engines from 2004–2013
- All three sizes in one tool
- No stacking of feeler gauges
- Heat-treated 4130 for durability and accuracy
- Red vinyl-dipped handle for increased visibility
- Large ring end for easy handling



**ORG1315**

- Screen the puller application.
- Inspect the puller; do not use damaged parts.
- Use the proper type and size of puller for the job.
- Read and follow safety messages in Instructions.
- Do not expose gasoline or fuel to flames, sparks or other sources of ignition.
- Use only in well ventilated areas.
- Wear safety goggles (user and bystanders).
- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- <sup>†</sup>These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.
- Read Safety Precautions on pages W1–W4



**DIESEL TOOLS**



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**

- 7/16" open ends and is 4-1/4" long
- Special thin design with 30° and 60° angle heads



FDT1116

**Fuel Line Disconnect Tools**

**FDT1116<sup>‡</sup> Fuel Line Disconnect Tool Set**

- Includes (4) fuel line disconnect tools—a straight and a 90° angle for the 11.8 mm fuel lines and a straight and a 90° angle for the 16 mm fuel lines
- OEM tool sets ZTSE4773 and ZTSE4772 do NOT include the straight tools—the straight tools allow access into tight areas
- All four tool handles are highly visible orange for easy identification
- Set includes FDT11, FDT11STR, FDT16 and FDT16STR

**FDT11<sup>‡</sup> Angled Fuel Disconnect Tool**

- 90° angle for 11.8 mm fuel lines
- Handle is highly visible orange for easy identification

**FDT11STR<sup>‡</sup> Straight Fuel Disconnect Tool**

- For 11.8 mm fuel lines
- The OEM tool sets ZTSE4773 and ZTSE4772 do NOT include the straight tools the straight tools allow access into tight areas
- Handle is highly visible orange for easy identification

**FDT16<sup>‡</sup> Angled Fuel Disconnect Tool**

- 90° angle for 16 mm fuel lines
- Handle is highly visible orange for easy identification

**FDT16STR<sup>‡</sup> Straight Fuel Disconnect Tool**

- For 16 mm fuel lines
- The OEM tool sets ZTSE4773 and ZTSE4772 do NOT include the straight tools the straight tools allow access into tight areas
- Handle is highly visible orange for easy identification



B4400A

WSW3

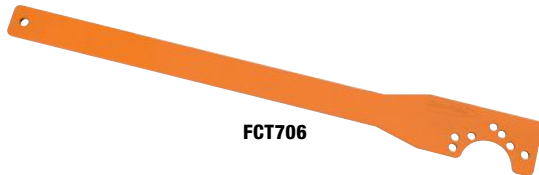
**Starter Bolt and Fuel Filter Wrenches**

**B4400A Starter Bolt Wrench**

- Manufactured from special alloy steel and heat-treated for optimum strength
- Specially contoured for tight-access areas
- Used for John Deere® starter bolts

**WSW3 Duramax® Fuel Filter Water Sensor Wrench**

- Glass-filled nylon tool with four sizes: 40, 41, 42 and 46 mm
- All-in-one tool that works on all four OEM and aftermarket sizes available in the marketplace today



FCT706

**Fan Clutch Wrench**

**FCT706 Fan Clutch Wrench (Blue-Point®)**

- Used for heavy-duty truck engines
- Hole pattern on the tool aligns with fasteners on the fan hub
- Open end wrench is used to remove the fan clutch
- 24-1/2" long for maximum leverage



**FB308D**



**FB325A**



**FB328A**



**FB300A**

**Feeler Gauges**

**FB308D Step Feeler Gauge Set and Holder (Blue-Point®)**

- Used for adjusting valves
- Includes 12 step blades in sizes .008"/.010"–.028"/.030"

**FB325A† 25 pc SAE and Metric Feeler Gauge Set (Blue-Point®)**

- Includes blade sizes .0015 and .002–.025"
- Double stamped with SAE and metric sizes

**FB328A† Step Feeler Gauge Set and Holder (Blue-Point®)**

- For adjusting valves
- Includes two step blades: .011"/.013" and .013"/.015"
- For valve adjustment on GM® 8.2 L engines
- Double stamped with SAE and metric size

**FB300A† Bent Blade Feeler Gauge Set (Blue-Point®)**

- 45° blade ends

**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



**M3517B**



**M3518**

**Crowfoot Wrench**

**SCFM2538 3/8" Drive Cummins® Wastegate Solenoid Crowfoot Wrench**

- Crowfoot design helps to not damage the solenoid while providing access to it during removal or installation
- Crowfoot design and square drive allow for proper torquing of the solenoid during installation



**SCFM2538**

**Specialty Service Tools**

**S6201 M20 x 1.5 Rethreader Tap**

- Manufactured from special steel with a higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat-treated for optimum strength and durability



**S6201**

- Read and follow safety messages in Instructions.
- Do not expose gasoline or fuel to flames, sparks or other sources of ignition.
- Use only in well ventilated areas.
- See safety information in the current Snap-on catalog.

†These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.  
 • Read Safety Precautions on pages W1–W4



## DIESEL TOOLS



EMSM3814



FLS1222



IPSTML10



IPSTML8



S6200



MFIMMD10



M3525A



M3503B



TLEPL50

## Special Application Sockets

**EMSM3814 3/8" Drive Metric 14 mm Sensor Socket**

- Sensor sockets specially designed cutout ensures a tight fit on sensors without cutting wires
- Precise fit; six-sided, more flat-to-flat contact, avoids rounding the sensor (as opposed to two-sides with standard wrench)
- Thin outside diameter for greater accessibility to sensors that are tucked away
- Industrial finish helps protect against corrosion
- The square drive end has grooved detents on all four interior walls

**FLS1219<sup>†</sup> 1/2" Drive Fuel Line Socket**

- Designed to easily torque fuel injector lines correctly, reducing or eliminating the possibility of a fuel leak or damaging the line, fuel rail or fittings
- Easily applies the 30 ft-lb factory-required torque
- No torque adaptors with complicated calculations required
- Use on Cummins<sup>®</sup> ISB engines 1998–present
- 1/2" drive, 19 mm

**FLS1222<sup>†</sup> 1/2" Drive Fuel Line Socket**

- Easily applies 80 ft-lb factory-required torque
- No torque adaptors with complicated calculations required
- Use on Cummins<sup>®</sup> ISX engines 2007–present
- 1/2" drive, 22 mm

**IPSTML10 1/4" Drive 6-Point 10 mm Flex Impact Socket**

- Removes and installs glow plugs
- Designed with a retention O-ring that holds the glow plug in the socket while being installed or removed
- Industrial finish helps protect against corrosion
- Precision machined and heat-treated for optimum strength and durability

**IPSTML8 1/4" Drive 6-Point 8 mm Metric Deep-Flex Impact Socket**

- Removes and installs glow plugs on following vehicles: Ford<sup>®</sup> 2011–2012 F250<sup>®</sup>/F350<sup>®</sup> Super Duty<sup>®</sup> 6.7 L Power Stroke<sup>®</sup> Diesel 2011–2014 F450<sup>®</sup>/F550<sup>®</sup> Super Duty<sup>®</sup> 6.7 L Power Stroke<sup>®</sup> Diesel Dodge<sup>®</sup> 2007–2009 Dodge<sup>®</sup> Sprinter<sup>®</sup> Van; Jeep<sup>®</sup> 2007–2009 Grand Cherokee<sup>®</sup> Freightliner<sup>®</sup> 2007–2011 3.0 L V6 Diesel Sprinter<sup>®</sup> Van; Mercedes<sup>®</sup> 2007–2009 E320 3.0 L V6 Diesel, 2011 3.0 L V6 Diesel Sprinter<sup>®</sup> Van

**S6200 1/2" Drive 12-Point Metric 12 mm Engine Bearing Cap Bolt Impact Socket**

- Use to service engine cam bearing cap bolts on both older and newer generation Detroit Diesel<sup>®</sup> engines
- Newer generation Detroit Diesel<sup>®</sup> engines use longer cam bolts than earlier generation engines
- The S6200 is specially designed to work on both engine generations
- 4-3/8" long

**MFIMMD10 3/8" Drive 12-Point Metric 10 mm Shallow Magnetic Power Socket**

- For use on Detroit Diesel<sup>®</sup> 60 series, the MFIMMD10 is used on the three camshaft gear thrust plate bolts located inside the camshaft gear cover within the front gear case on the engine
- The mechanic must 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<sup>®</sup> engines with the compact gear case (please note: earlier engines with the tall gear case have 13 mm six-point bolts)
- Magnetic sockets are perfect for installing and removing a fastener as the magnetic feature will hold the fastener in the socket, saving time and frustration
- Power sockets designed and intended for use with power nut runners; do not use with impact drivers
- Industrial, black-oxide, finish helps protect against corrosion

**M3525A 1/2" Drive Spanner Socket**

- 1/2" drive, 3-7/32" long
- Includes 1-1/8" internal hex for use on "Fuel Squeezer" Series engines

**M3503B 3/8" Drive Fuel Line Nut Socket**

- 1/2" wrench opening
- 3/8" drive, 6-point
- Shaped for access to fuel line nuts
- 3-1/4" long
- Additional applications include the head temperature sensor on Buell<sup>®</sup> Motorcycles

**TLEPL50 1/4" Drive TORX Plus<sup>®</sup> 5EPL Socket**

- Manufactured from special steel with higher alloy content
- Precision forged and heat-treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean



SRD6

**Belt Tensioning Tools**

**SRD6 Belt Tensioner Release Tool**

- 6" long adaptor with 1/2" male square
- Female triple square drive allows more flexibility to work around obstacles by coming in at different angles with a 1/2" breaker bar
- Similar to the Snap-on® 6" torque adaptors but with a male square
- If using with a torque wrench, refer to the Snap-on® SS306G Torque Chart for the formula to obtain the correct applied torque

**Heavy-Duty Applications:**

- For serpentine belt tensioners with a 1/2" square drive opening found on Detroit Diesel® Series 60® and Caterpillar® engines
- Other 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® (2.0 and 3.0 L engines) Ford®, Lincoln® and Mercury® (2.3, 3.0, 4.2 and 4.6 L engines) GM® (2.5, 4.7, 5.0 and 5.7 L engines) vehicles



YA9340

**YA9340 Serpentine Belt Wrench (Blue-Point®)**

- Used to release any serpentine belt tensioner with a 1/2" square drive opening
- Ratcheting action allows better positioning of the tool, creating a greater swing angle than a solid-type serpentine belt wrench
- Reversible ratchet head is only 1" thick so it will fit between the tensioner face and fan blades on Detroit Diesel® S Series 60® and some Caterpillar® engines
- Also ideal 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

**Ford® ICP Sensor Socket**

**S6196KR 3/8" Square Drive 6-Point ICP Sensor Socket for Ford® Vehicles**

- Easily removes and installs the ICP Sensor on 2002 and 2003 Ford® 6.0 L diesel truck engines
- Spring retention securely holds the sensor during use
- 6-point configuration and Flank Drive® wrenching system
- Nickel-chrome finish resists rust and corrosion



S6196KR

**Glow Plug Tool**

**FGPT Glow Plug Harness Tool**

- Prevents damage to the harness and connector rail
- Removes and installs glow plug connectors
- Orange color for easy identification in dark engine compartments



FGPT

**Diesel Exhaust Fluid (DEF) Tools**

**DEFT300‡ 3 pc Diesel Exhaust Fluid (DEF) Tube Release Forks Set**

- Designed to depress locks that retain DEF lines, allowing for easy removal
- Each fork has both a straight and 90° design to access most locations
- Reduces time spent fighting with hard-to-reach clips
- Includes DEFT322, DEFT325 and DEFT334

**DEFT322‡ Small DEF Fork**

**DEFT325‡ Medium DEF Fork**

**DEFT334‡ Large DEF Fork**



DEFT300

**Diesel Pulse Adaptor**

**MT257B Diesel Pulse Adaptor (Blue-Point®)**

- Tests 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

- Rethreading taps and dies renew existing threads; do not use for cutting new threads or on hardened steel.
- Do not use power sockets or accessories with impact drivers or impact drivers.
- Do not use "cheater bars" on handles.
- Read and follow safety messages in the Instructions.

- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.
- Read Safety Precautions on pages W1-W4



**DIESEL: FORD®/NAVISTAR®**



FFW2A

**Ford® Fuel Filter Wrench**

**FFW2A 3/8" Drive 24/36 mm Fuel Filter Socket**

- Double-sided 3/8" drive socket includes both a 24 mm 6-point socket and a 36 mm slotted socket
- Made of machined aluminum and anodized for surface protection



MB73A

**Injector Brushes**

**MB5D Bronze Injector Brush (Blue-Point®)**

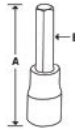
- Bronze non-abrasive brush cleans carbon from injector tips

**MB73A Injector Brush (Blue-Point®)**

- Combination 5/16" and 13/16" dia. stainless steel wire brush cleans the injector bore and injector tip hole in the cylinder head



S6340E



**Injector Hold-Down Fastener Tools**

**S6340E 3/8" Drive TORX® T40 Injector Hold-Down Fasteners Bit Socket**

- Manufactured from a special alloy steel and heat-treated for optimum strength
- Snap-on® bits are designed with precise fit and tight tolerance to prevent slippage and disengagement
- Perfect length of 3-1/8" is ideal for removing and reassembling Ford® Power Stroke® 6.0 L diesel injectors
- A regular length T40 bit socket is too short and a long T40 bit socket is too long when used with a ratchet or torque wrench and will not fit the application

**S6340E2 T40 TORX® Driver Bit**



EMS1230



EMSM1230



EMSM3813



EMSM3817

**Sensor and Filter Sockets**

**EMS1230 1/2" Drive SAE 15/16" Sensor Socket**

**EMSM1230 1/2" Drive Metric 30 mm Sensor Socket**

- Specially designed cutout ensures a tight fit on the sensors without cutting wires
- Precise fit; six-sided more flat-to-flat contact avoids rounding the sensor (as opposed to two-sides with a standard wrench)
- Thin outside diameter for greater accessibility to sensors that are tucked away
- Special alloy steel, heat-treated for optimal hardness and strength
- Square drive end has grooved detents on all four interior walls

**EMSM3813 3/8" Drive Metric 13 mm Sensor Socket**

- Sensor sockets specially designed cutout ensures a tight fit on sensors without cutting wires
- Precise fit; six-sided, more flat-to-flat contact, avoids rounding the sensor (as opposed to two-sides with standard wrench)
- Thin outside diameter for greater accessibility to sensors that are tucked away
- The square drive end has grooved detents on all four interior walls

**EMSM3817 3/8" Drive Metric 17 mm Sensor Socket**

- Sensor sockets specially designed cutout ensures a tight fit on sensors without cutting wires
- Precise fit; six-sided, more flat-to-flat contact, avoids rounding the sensor (as opposed to two-sides with standard wrench)
- Thin outside diameter for greater accessibility to sensors that are tucked away
- Sockets are made with special alloy steel; heat-treated for optimal hardness and strength
- Industrial finish helps protect against corrosion
- The square drive end has grooved detents on all four interior walls

**WSW4 3/8" Drive Isuzu® Water Sensor Crowfoot Wrench**

- 3/8" drive crowfoot wrench for the removal and installation of the fuel filter's plastic water sensor without damage



WSW4

**Ford® 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 the exhaust intake in the way
- Designed for use on 2003–later Ford® F-250®, F-350®, E-250® and E-350® vehicles with 6 L Power Stroke® diesel engines
- Additional applications on Navistar® VT365 engines and some International® 4000 Series of medium-duty trucks
- Wrench has a 0° 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

**TAP1225† Turbo Vane Actuator Puller**

- Specially designed for Ford® 6.4 L turbo diesel to save the technician time
- Compact size fits on or off the truck
- Self-aligning for easy install
- Removes the actuator link rod from the arm on the turbo of 2008–2010 Ford® 6.4 L Power Stroke® diesel engines



PSWT10K

**TVA1650† Turbo Vane Actuator Installer for Ford® Vehicles**

- Simply rotate the arm up, slip the self-centering installer over the arm, and with two wrenches the stud is pushed into the arm in a matter of seconds
- Compact size of tool allows it to be used either on or off the truck
- Single-purpose design saves time and allows the user to work more efficiently while reducing the potential to damage parts during installation
- Fine thread actuator reduces the torque required to loosen the press fit



TAP1225



TVA1650

**Fuel Injector Sockets**

- Complies with Ford® TSB 11-10-10
- 12-point, 17 mm crowfoot design allows the socket to slip onto the injector easily at any angle
- Design allows the socket to spin under bent fuel lines
- Nose geometry reduces electrical connection damage
- Depth stop keeps the socket at the specified height
- Thick mass reduces flex and flare nut damage
- Design allows for clearance to torque the fitting without a torque adapter

**YA1140† Diesel Injector Crowfoot Socket Set (Blue-Point®)**

- Includes 2 pc YA1140-1 and YA1140-21

**YA1140-1† Long Diesel Injector Crowfoot Socket (Blue-Point®)**

- Ford® 6.7 L Power Stroke® Diesel
- Inline design of the YA1140-1 allows accurate torquing of the injector and clears the plastic housing and fuel return line

- Complies with Ford® TSB 11-10-10
- 12-point, 17 mm crowfoot design allows the socket to slip onto the injector easily at any angle
- Design allows the socket to spin under bent fuel lines
- Nose geometry reduces electrical connection damage
- Depth stop keeps the socket at the specified height
- Thick mass reduces flex and flare nut damage
- Design allows for clearance to torque the fitting without a torque adapter

**YA1140-21† Offset Diesel Injector Crowfoot Socket (Blue-Point®)**

- Ford® 6.7 L Power Stroke® Diesel
- Design of the YA1140-21 allows it to rotate under the fuel line while the depth stop keeps it at the specified height to clear the plastic housing
- Complies with Ford® TSB 11-10-10



YA1140



YA1140-1



YA1140-21

**DIESEL: AUTOMOTIVE DIESEL**

**Injector Pullers**

**IPK1760† Sprinter® Van Diesel Injector Puller Kit**

- Removes stuck injectors in minutes instead of hours
- Will not damage the valve cover
- Injector can most likely be reused as a core
- Includes tools to remove the top of the injector, clean the injector seat and a thread chaser for the clamp hole

- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- Do not use "cheater bars" on handles.
- Pull, do not push on handles.
- Sockets and accessories can break if used with impact drivers.
- Broken sockets or accessories can cause injury.
- Wear safety goggles (user and bystanders).

†These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.  
• Read Safety Precautions on pages W1–W4



IPK1760



**DIESEL: AUTOMOTIVE DIESEL**



IPK1720

**Injector Pullers**

**IPK1720<sup>‡</sup> Cummins® 5.9 L and 6.7 L Injector Puller**

- For use on Dodge® Cummins® 5.9–6.7 L diesel engines equipped with the high-pressure common rail fuel system
- Designed to slip the puller cup in the groove on the injector and lever it out against the head of the mid-cover center bolts after the wires and retaining bolts have been removed
- Height adjustable for 5.9 L and 6.7 L HPCR engines
- No need to bolt the tool down, moves quickly from injector to injector pulling them straight out, saving time and reducing the likelihood of damaging the head or injector



S6128

**Metric Injector Sockets**

**S6128 Metric Injector Socket**

- 6-point, 30 mm, 2-1/16" bolt clearance
- 7/16" opening depth, 2-11/16" long
- 7/8" external hex on the drive end

**S6104B Metric Injector Socket**

- For VW® and Mercedes® diesel engines
- 12-point, 27 mm
- Clearance bored to fit over the fuel injector
- 1/2" drive; 3-1/4" long



YA6925

**Flywheel Lock (Blue-Point®)**

**YA6925<sup>‡</sup> Flywheel Lock for GM® Duramax® 6.6 Liter Engines (Blue-Point®)**

- For 2001–later Duramax® 6.6 L 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



RNDSL7

**Diesel Exhaust Bung Rethreading Kit**

**RNDSL7<sup>‡</sup> 7 pc Diesel Exhaust Bung Rethreading Kit**

- Unique design and geometry allows access to difficult to reach bungs
- Designed to reach the bottom thread even with inverted flare fittings
- Will cleanup most EGT sensor bungs allowing a new sensor to be installed without the need for exhaust component replacement
- Inverted cone design allows the tap to fully engage all threads unlike flat bottom rethreading taps
- Six different sizes and included drive adaptor will accommodate repair of most EGT sensors on cars, light, medium and heavy-duty trucks
- Square-to-hex adaptor allows use of 14 mm or 9/16" socket or wrench



RND1210



RND1615

**RNDADP1<sup>‡</sup> Hex to Square Adaptor**

**RND1615<sup>‡</sup> M16 x 1.5 Rethreader**

**RND1415<sup>‡</sup> M14 x 1.5 Rethreader**

**RND14125<sup>‡</sup> M14 x 1.25 Rethreader**

**RND1215<sup>‡</sup> M12 x 1.5 Rethreader**

**RND12125<sup>‡</sup> M12 x 1.25 Rethreader**

**RND1210<sup>‡</sup> M12 x 1.0 Rethreader**

**RNDPKG1<sup>‡</sup> Pouch**



RNDADP1

**Sensor and Filter Sockets**

**OFSKIT 4 pc Oil/Fuel Filter Socket Set**

- Removes and installs 24, 27, 35, 36 mm and 1-1/4" oil filters
- Includes (1) A127 and (1) A106 Oil Filter Sockets, (1) S3624 Filter Flip Socket and (1) A129 Cummins® Diesel Fuel Filter Socket in a storage tray

**A127 Applications:**

- Removes and installs 27 mm (1-1/16") oil filters on Mercedes-Benz® 1.8 L 4-cylinder engines (2003–later)
- Aftermarket oil filters with one nut at the top of the canister

**A129 Applications:**

- Removes and installs fuel filter housings found on Dodge® Ram® trucks with the 24-valve Cummins® diesel engine (2002–later)

**A106 Applications:**

- GM® Ecotec®, 2.0, 2.2 and 2.4 L 4-cylinder engines
- Saturn®: L-series (2001, Ion and Vue (2002–later)
- GM®: Cavalier™, Sunfire®, Grand AM, Sonoma, S10, Alero (2002–later)
- Malibu®: 2002–2006
- Pontiac®: G6 and Solstice (2006)
- Chevrolet®: HHR, Cobalt, Cobalt SS (2006)
- Saab®: Some general applications

**S3624 Applications:**

- Removes and installs all three filter caps on Ford® 6.0 L Power Stroke® diesel-powered vehicles, such as Super Duty® pickups, Econoline® vans and Excursion®

**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®/Volkswagen®: VR6 engine
- BMW®: 6-, 8- and 12-cylinder engines
- Mercedes-Benz®: diesel engines
- Mini Cooper®
- Volvo®: 40 and 50 series, XC90® with 3.2 L 6-cylinder engine

**OFS2432 24/32 mm Oil Filter Housing Flip Socket**

- Used for Audi®, Volkswagen®, Porsche®, Chrysler®, Dodge®, Jeep®, RAM®, Lamborghini® and Mercedes-Benz® vehicles
- Removal and installation of the oil filter housing on 2.0 L I4 diesel engine, 3.0 L V6, 3.6 L V6, 4.0 L V8 turbo, 4.2 L V8, 5.2 L V8, 5.5 L V8 turbo and 6.3 L V9 engines
- Manufactured from special alloy steel

**A129 Diesel Fuel Filter Socket**

- Use for removing and installing fuel filter housings
- 1-1/8" wrench size
- 3/8" drive

**SWR3 Water Sensor Socket**

- Easily removes and replaces a water sensor without damage when changing the fuel filter on 2001–present GM® 6.6 L DuraMax® diesel engines in Chevrolet®/GMC® pickups and in Chevrolet®/GMC® medium-duty trucks
- Manufactured from high-strength chemical-resistant glass-filled nylon
- NOTE: Due to possible sensor distortion from previous incorrect removal/installation methods, the sensor may slip in the SWR3 during removal; used to reinstall the sensor when proper hand tightening is used
- 3/8" square drive

**S3624 3/8" Square Drive Metric 24/36 mm Filter Flip Socket**

- One tool will remove/install all three filter caps on Ford® 6.0 L Power Stroke® diesel-powered vehicles such as Super Duty® Series pickups, Econoline® vans and Excursion®
- Used for removal and installation of the oil filter cap, primary and secondary fuel filter caps
- Not for impact use
- Requires optional 3/8" drive extension (FX1 or FXWP1 1-1/2" long)

**24 mm applications:**

- Buick® vehicles: VVT-V6 Rendezvous Ultra, LaCrosse® CSX
- Cadillac® vehicles: VVT-V6 CTS®, STS®, SRX®
- Saturn® vehicles: L-3000 V6

**35/36 mm applications:**

- Audi®/Volkswagen®: VR6 engine
- BMW®: 6-, 8- and 12-cylinder engines
- Mercedes-Benz®: diesel engines
- Mini Cooper®
- Volvo®: 40 and 50 Series, XC90® with 3.2L 6-cylinder engine
- Nickel-chrome finish



OFSKIT



OFS2432



A129



SWR3



S3624



- Rethrading taps and dies renew existing threads; do not use for cutting new threads or on hardened steel.
- Wear safety goggles (user and bystanders).
- These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.
- Read Safety Precautions on pages W1–W4

## DIESEL: AUTOMOTIVE DIESEL



ICP1610

**Injector Pullers****ICP1610<sup>†</sup> Duramax<sup>®</sup> LB7 Injector Cup Puller**

- Designed to remove and help avoid damage to injector cup sleeves
- A must-have tool when re-sealing the sleeves, allowing the technician to work more efficiently
- Heat-treated alloy steel for long life



IPK1170

**IPK1170<sup>†</sup> Injector Puller Kit**

- Used for GM<sup>®</sup> LB7 Duramax<sup>®</sup> engines
- Pulls injector straight
- Pulls far enough to completely remove a stuck injector
- Saves time by reducing the likelihood of loosening the sleeves (up to 1/2 hour per sleeve)
- Removes sleeve from the injector without damage



IPK1220

**IPK1220<sup>†</sup> Injector Puller Kit**

- Removes diesel injectors on VW<sup>®</sup> and Audi<sup>®</sup> vehicles from 2000–present
- Correct tools all in one kit—no searching for shop tools
- Kit contains (3) adaptors with 2 lb slide weight on a 10" slide shaft
- Kit includes the newest style adaptor to keep this kit current for the next ten-plus years



IPK1330

**IPK1330<sup>†</sup> Injector Puller Kit**

- Used to remove diesel injectors from GM<sup>®</sup> vehicles produced from 2004–2010 with an LLY, LBZ or LMM Duramax<sup>®</sup> engine
- Pulls injector straight out without rocking
- Pulls far enough to completely remove a stuck injector
- Saves time and reduces the likelihood of damaging the injector or head



IPK1400

**IPK1400<sup>†</sup> Injector Puller Kit**

- Removes fuel injectors from GM<sup>®</sup> vehicles produced from 2009–current with SIDI engines
- Works on many other makes and models of motor vehicles
- Designed to pull the injector straight out reducing the possibility of damaging the injector or head
- Pulls injector straight out without rocking
- Sturdy enough so it won't slip off
- Saves time and reduces the likelihood of damaging the head or injector



IPK1630

**IPK1630<sup>†</sup> 6.7 L Ford<sup>®</sup> Power Stroke<sup>®</sup> Injector Puller**

- Factory tools rock the injector, binding it to the head and possibly damaging injector; the IPK1630 pulls the injector straight out without rocking and damaging the injector or head
- Unique cantilever I-beam design allows easy assembly on the motor and provides a solid platform for pulling the most stubborn injectors
- Lifts about 3/4" to completely remove a stuck injector
- Saves time by reducing the likelihood of damaging the head or injector
- Made from heat-treated alloy steel for rigidity and durability



IPK1640

**IPK1640<sup>†</sup> GM<sup>®</sup> LML Duramax<sup>®</sup> Injector Puller**

- A factory tool will rock the injector, binding it into the head and may damage the injector. The IPK1640 will pull the injector straight out without rocking, reducing the possibility of damaging the injector or head
- Custom I-beam bridge design allows easy access to hard to reach injectors and a solid pulling bridge to pull out the most stubborn injectors
- Lifts about 3/4" to completely remove a stuck injector
- Saves time by reducing the likelihood of damaging the head or injector
- Made from heat-treated alloy steel for rigidity and durability

## Suspension/Steering Tools (Heavy-Duty Truck)

### PAR1188A<sup>‡</sup> Pitman Arm Remover F-Series

- Patented design uses leverage action and requires less torque and space compared to other pitman arm tools and removal methods
- Requires less clearance and eliminates the need to remove the steering box on most trucks
- Accommodates pitman arms that are 3" wide
- Forged alloy steel construction securely locks the tool in place



PAR1188A

### S2030<sup>‡</sup> 1/2" Drive 1-1/8" Crowfoot Air Suspension Wrench

- Low profile wrench with spline drive designed to access the tight area inside the air bag mounting bracket
- Because of tight area and limited access to the air spring mounting bracket, this design saves technicians 30 minutes over current methods
- Blind stop on the wrench also acts as a strengthening gusset
- Heat-treated forged alloy steel for strength and durability



S2030

## Hand Sockets

### PPM624 3/4" Drive SAE 3/4" Internal Final Drive Pipe Plug Socket

- Designed for final drive drain plugs on Caterpillar<sup>®</sup> D8 dozers as well as Komatsu<sup>®</sup> WA500 wheel loaders and 275, 375 and 475 dozers



PPM624

### S6100 3/8" Drive 3-Lobe Hand Wheel Socket

- Designed to aid in the removal of rusted and corroded hand wheels without breaking them
- Manufactured from special steel with a higher alloy content
- Precision forged and heat-treated for optimum strength and durability
- Nickel-chrome plating helps protect against corrosion and makes it easy to wipe clean



S6100

### S6160 1/2" Drive 12-Point Metric 12 mm Extra-Long Head Bolt Socket

- Use on 1986-later Nissan<sup>®</sup> engines with 12 mm head bolts
- 8" length reaches past the cam and rocker assembly to service head bolts
- Thin-profile socket and shank will reach through the access hole and past the overhead camshaft
- Additional high-torque applications include removal and installation of universal joint flange bolts on Ford<sup>®</sup>/Mercury<sup>®</sup> cars such as Mustang<sup>®</sup>, Crown Victoria<sup>®</sup>, Lincoln<sup>®</sup>, Ford<sup>®</sup> Explorer<sup>®</sup>, Ranger<sup>®</sup> and F-150<sup>®</sup>/F-250<sup>®</sup> trucks



S6160

### S6194 1/2" Drive 12-Point Metric 12 mm Head Bolt Socket

- Used on Toyota<sup>®</sup> and Nissan<sup>®</sup> cars and trucks, and Honda<sup>®</sup> cars with 12 mm head bolts
- 4-1/8" length reaches past the cam and rocker assembly to service the head bolts
- Thin-profile socket and shank reach through the access hole and past the overhead camshaft
- Additional high-torque applications include removal and installation of universal joint flange bolts on Ford<sup>®</sup> Explorer<sup>®</sup>, Ranger<sup>®</sup> and F-150<sup>®</sup>/F-250<sup>®</sup> trucks



S6194

### S6260 1/2" Drive 12-Point SAE 1/2" Heavy-Duty Spicer<sup>®</sup> Drive Impact Socket

- For removal of heavy-duty Spicer<sup>®</sup> drive shaft bolts that have 1/2" fasteners found on Kenworth<sup>®</sup> and Peterbilt<sup>®</sup> trucks, and many other heavy-duty applications
- 8" long



S6260

### SHR20 Oil Galley Drain Plug Socket

- For the removal and installation of the oil galley drain plug on Caterpillar<sup>®</sup> 6 cylinder engines
- Galley plugs may leak and need to be removed so a new O-ring can be installed
- Low-profile design helps get into tight applications
- Special alloy steel provides corrosion resistance
- 1/2" drive, 5/8" Hex socket, 6-point, 1-1/4" long



SHR20

### SIMDML202 3/4" Drive 20 mm Double Hex Impact Socket

- For use on CAT<sup>®</sup> C7 cylinder head bolts, found mostly in CAT<sup>®</sup> earth moving machinery



SIMDML202

- Read and follow safety messages in the instructions.
- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- Screen the puller application
- Inspect the puller; do not use damaged parts
- Use the proper type and size of puller for the job
- Wear safety goggles (user and bystanders).
- <sup>‡</sup>These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.
- Read Safety Precautions on pages W1-W4



## HEAVY-DUTY TRUCK SERVICE TOOLS



DW402C



S6197



S6219



S6217



S6218



S6230



SIML302



SIMML343

## Impact Sockets

**DW402C 3/4" Drive 6-Point SAE 1-1/4" Dayton Lug Nut Impact Socket**

- For use with socket retainers

**S6197 1/2" Drive 12-Point SAE 1/2" Heavy-Duty Drive Line Impact Socket**

- Used on Kenworth® and Peterbilt® heavy-duty drivelines with 1/2" fasteners and many other heavy-duty 1/2" applications
- Socket will clear the weld yoke, when removing the cap screws holding the wing bushings to the end yoke
- 4-1/8" long

**S6199 3/4" Drive U-Bolt Impact Socket**

- Used on semi trucks using 5/8" dia. U-bolts for springs and other suspension components
- Up to 2" longer than a standard deep socket to easily accommodate the excess thread length—saves time compared to cutting off excess thread to use a standard deep socket
- 1-1/8" wrench size, six-point, 3/4" drive, 5" long

**S6217 3/4" Drive Head Bolt Impact Socket**

- For head bolts on heavy-duty trucks and buses with MBE900 Mercedes-Benz® engine
- Used on certain Detroit Diesel® head bolts with the MBE900 Mercedes-Benz® engine where clearance requires a thin-walled socket
- Socket height helps when using a torque wrench due to the length of the torque wrench handle for clearance
- 3/4" drive, 12-point, 17 mm, 4-3/4" long

**S6218 1/2" Drive Metric 18 mm Double Hex Socket**

- Used in conjunction with a 1/2" drive impact gun to remove driveshaft bolts on Kenworth® semi-trucks
- 1/2" drive, 12-point, 18 mm, 6" long socket
- Manufactured from special steel with a higher alloy content
- Industrial finish helps protect against corrosion
- Precision machined and heat-treated for optimum strength and durability

**S6230 1/2" Drive 6-Point SAE 15/16" Impact Socket**

- Snap-on® sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Forged from tough alloy steel to increase safety and are heat-treated to a lower hardness to add impact resistance and ductility
- Designed for Autocar® and CCC®-style dump trucks and garbage trucks that use the 30/36 spring brake chamber made by MGM® Brakes added® to F450 on SRDM624
- When doing an emergency repair on the road or changing the diaphragm, the chamber needs to be caged before towing or disassembly
- Currently technicians are using a 15/16" wrench—this is time consuming and can be dangerous when servicing a broken down vehicle in traffic
- Length is designed to accommodate the very long threaded spring brake release stud assembly (release tool) in the brake chamber
- Standard deep 15/16" impact sockets are not long enough to fully engage the threads of the spring brake release stud assembly (release tool) in the spring brake chamber

**SIML302 3/4" Drive 6-Point SAE 15/16" Flank Drive® Extra-Deep Impact Socket**

- Flank Drive® wrenching configuration
- Special alloy steel combines strength and durability

**SIMML343 Extra-Long Metric Impact Socket**

- Used for removing and installing the lug nuts on Case® and International® combines

## Impact Sockets

### IM382CD 3/4" Drive 6-Point Metric 30 mm Flank Drive® Shallow Impact Socket

- Applications include Assault Breacher Vehicle; Utility Truck (Tamen: D00347K); Abrams M-1 Tank; Bridge Launcher Carrier; M1A2 Heavy Assault Bridge (hab)/Wolverine, 5420-01-430-4227; Armored Vehicle Launch Bridge (M60A1 and M48A5); Combat Tank, Ft, 120 mm gun (M1A1)



IM382CD

### IMFDL242 3/4" Drive 12-Point SAE 3/4" Flank Drive® Deep Thin Wall Impact Socket

- Designed to remove the head bolts on Caterpillar® C12, C15, C16 and 3406E where the front two and back two head bolts are positioned under the valve covers
- Applications on certain Caterpillar® head bolts require a thin walled socket of a certain length
- Additional applications include Detroit Diesel® main bearing cap bolts and 19 mm head bolts on Mercedes-Benz® MBE904/MBE906 EGR engines (2007–later)



IMFDL242

### IMSLE242A 3/4" Drive E24 Inverted TORX® Impact Socket

- Applications include removal and installation of head bolts on MaxxForce® 11 and 13 engines found on D15 International® (2010–current)



IMSLE242A

### IPRD20 1/2" Drive 12-Point SAE 5/8" Low Profile Swivel Impact Socket

- Snap-on® impact sockets are heat-treated to optimize impact service life with a lower hardness than hand sockets and are able to withstand repeated cycling loads of impact wrenches
- Flank Drive® wrenching system delivers up to 20% more turning power without slipping or rounding, while exceeding ANSI® performance standards
- 30° uninterrupted swivel action for greater accessibility in tight quarters, allowing for easier and faster removal of stubborn fasteners
- Used on starter bolts on Cummins®, Caterpillar®, Detroit Diesel® and International® engines where housing is in the way when backing out the fastener using a standard-length impact socket



IPRD20

### S6116 1/2" Drive 6-Point Metric 16 mm Impact Socket

- Socket is 4" long for easier access to head bolts
- Manufactured from special steel with a high higher alloy content
- Industrial finish helps protect against corrosion



S6116

### S6126 1/2" Drive Double Hex 3/4" Driveline Socket

- Socket is 6" long to easily reach driveshaft bolts
- Manufactured from special steel with a higher alloy content
- Industrial finish helps protect against corrosion



S6126

### S6213 1/2" Drive 12-Point Metric 13 mm U-Joint Strap Bolt Impact Socket

- Used for removal of 13 mm U-joint strap bolts found on Volvo®, Mack® and other heavy-duty applications
- 8" long



S6213

### S6220 C15 Impact Socket for Caterpillar® Engines

- Used on Caterpillar® C15 engine rocker stud bolts where the length and broach depth of the socket are critical for the application
- 1/2" drive, 6-point, 11/16", 3-1/4" long



S6220

### S6221 Fuel Injector Adaptor Impact Socket

- Used for the removal and installation of the fuel injector adaptor from the high-pressure rail and for servicing the O-rings on Navistar® DT466/570, HT570 (DT9 and 10) engines
- Similar to the Navistar® OEM tool part number ZTSE4725
- 1/2" drive, 1-1/16" hex



S6221



- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- Check lug nut tightness with a torque wrench.
- Read Safety Precautions on pages W1–W4

HEAVY-DUTY TRUCK SERVICE TOOLS



SIMML180

Extra-Deep, mm

**SIMML180 1/2" Drive 6-Point Metric 18 mm Flank Drive® Extra-Deep Impact Socket**

- Applications include the removal and installation of the fuel tank hold down strap on International® 4400 chassis
- The fuel tank must be removed to replace the fuel sending unit
- 5" long to reach through the frame to access the fastener without the need of an extension



S6224



S6314



S6412



S6413



S6624



SIM462TW

Impact Sockets

**S6224 1/2" Drive 6-Point SAE 3/4" 30/30 Air Brake Chamber Impact Socket**

- Extra-long design allows for quick and safe removal of long-threaded brake release stud assemblies

**S6314 Extra-Long Impact Socket**

- 3-1/4" overall length

**S6412 Drive Train Bolt Socket**

- Removes drive train bolts on Ford® vehicles, Hino® 268 Box trucks, International® 4200 VT365 box trucks and 2007 Freightliner® M2 trucks

**S6413 1/2" Drive 12-Point 13 mm Heavy-Duty Driveline Socket**

- Designed to service heavy-duty diesel truck drivelines
- 1/2" drive, 12-point, 13 mm, 4-1/8" long

**S6624 3/4" Drive 12-Point 24 mm Main Cap Bolt Socket**

- For the removal and installation of the main cap bolts on 2007-later Detroit Diesel® DD13 and 15 engines
- Overall length (5-3/4") and square drive (3/4") of this socket are critical due to the torque rating for this application

**SIM462TW 3/4" Drive 6-Point 1-7/16" SAE Deep Thin-Wall Impact Socket**

- Designed to remove the lug nuts from Caterpillar® Model 793 mining trucks
- Thin-wall design accommodates easy removal of the 72 lug nuts spaced only 6 mm apart on each wheel



SIMDM212

Deep, mm

**SIMDM212 3/4" Drive 12-Point Metric 21 mm Flank Drive® Deep Impact Socket**

- Applications include flywheel bolts on Cummins® ISX engines

## Impact Sockets

### 205RIPF 5 pc 3/8" Drive 6-Point SAE Low Profile Swivel Impact Socket Set

- Includes RIPF14C–RIPF20C and RIPF24C (7/16–5/8 and 3/4")
- Low-profile of swivel-end provides increased access to cramped front-end fasteners
- Sockets using the Flank Drive® wrenching system grip the fastener on the flanks/flats, delivering 15–25% more turning power
- Pin collar eliminated with new proprietary pin-welding process
- Laser-welded pivot pin reinforces socket wall and allows 30° of smooth, uninterrupted action for efficient power transfer at any angle and greater accessibility in tight quarters
- Designed to withstand today's high-torque impact guns for removing stubborn fasteners



205RIPF



RIPF18C

### RIPF12C 3/8" Drive 6-Point SAE 3/8" Low Profile Swivel Impact Socket

### RIPF14C 3/8" Drive 6-Point SAE 7/16" Low Profile Swivel Impact Socket

### RIPF16C 3/8" Drive 6-Point SAE 1/2" Low Profile Swivel Impact Socket

### RIPF18C 3/8" Drive 6-Point SAE 9/16" Low Profile Swivel Impact Socket

### RIPF20C 3/8" Drive 6-Point SAE 5/8" Low Profile Swivel Impact Socket

### RIPF22C 3/8" Drive 6-Point SAE 11/16" Low Profile Swivel Impact Socket

### RIPF24C 3/8" Drive 6-Point SAE 3/4" Low Profile Swivel Impact Socket

## Impact Sockets

### S6240 3/4" Drive 6-Point SAE 1-1/4" Single Hex Deep Impact Socket

- Heavy-duty socket to service Blue Bird® buses and Hendrickson® type suspension U-Bolts



S6240

## Slack Adjusters

### BSA916<sup>†</sup> Slack Adjuster Wrench

- For brake service and slack adjuster installation on heavy-duty trucks equipped with Bendix® automatic slack adjusters
- Used 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 a protective vinyl boot

### HSA716<sup>†</sup> Slack Adjuster Wrench

- For brake service and slack adjuster installation on heavy-duty trucks equipped with Haldex® automatic slack adjusters
- Used 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
- Protective vinyl boot helps to keep contaminants out of the ratchet mechanism for extended tool life



BSA916



HSA716

## Special Application Sockets

### IPSTML8 1/4" Drive 6-Point 8 mm Metric Deep-Flex Impact Socket

- Removes and installs glow plugs
- Designed with a retention O-ring that holds the glow plug in the socket while being installed or removed
- Removes and installs glow plugs on following vehicles: Ford® 2011–2012 F250®/F350® Super Duty® 6.7 L Power Stroke® Diesel 2011–2014 F450®/F550® Super Duty® 6.7 L Power Stroke® Diesel Dodge® 2007–2009 Dodge® Sprinter® Van; Jeep® 2007–2009 Grand Cherokee® Freightliner® 2007–2011 3.0 L V6 Diesel Sprinter® Van; Mercedes® 2007–2009 E320 3.0 L V6 Diesel, 2011 3.0 L V6 Diesel Sprinter® Van



IPSTML8



**WARNING**



<sup>†</sup>These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.  
• Read Safety Precautions on pages W1–W4

# HEAVY-DUTY TRUCK SERVICE TOOLS



FRDH81



GSRM430



PAR1820



S7102



SRD35



SRDM624

## Torque Adaptor

### FRDH81 3/8" Drive 12-Point SAE 1/4" Torque Adaptor

- 176 in.-lb working torque
- Precision-crafted from special alloy steel and heat-treated for optimum strength and durability
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean
- Double hex (12-point) configuration allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- Design features radius edges which will resist damage/nicks
- Center-to-center length on adaptor for easy torque calculations
- Larger sizes feature thicker construction for strength

### GSRM430 1/2" Drive 6-Point Metric 30 mm Standard Torque Adaptor

- Design features radius edges which will resist damage/nicks
- Center-to-center length on adaptor for easy torque calculations
- Larger sizes feature thicker construction for strength

### PAR1820<sup>†</sup> 46 mm Pitman Torque Adaptor

- Used to service and replace pitman arms on 2010 and later Ford®, GM®, Dodge® and other full sized trucks
- Adaptor is specially designed to clear the steering box housing and other obstacles
- Works on both factory pitman arms as well as aftermarket drop-style pitman arms that are installed on trucks with lift kits
- Proper torque specs with equation included on insert card

### S7102 3/8" Square Drive Metric 30 mm Torque Adaptor

- Unique design allows fuel pressure regulator on 6.7 L Ford® diesel engines to be removed by clearing fuel rail with no interference from steering column

### SRD35 3/4" Drive Diesel Head Bolt Torque Adaptor

- Eliminates the need to remove the truck/van cab from the chassis to access the rear head bolts, saving the technician time and preventing damage to the rear heat shield
- When coupled with an SM18, 18 mm socket, can access all of the head bolts, eliminating the need to change tools or remove the adaptor during the job
- 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 evaporator housing, saving two hours of time and the additional cost of refrigerant added during air conditioning recharging
- 3/4" square drive, 3-1/2" center-to-center length, 4-7/8" overall length

### SRDM624 1/2" Drive 12-Point Metric 24 mm Torque Adaptor

- Services the rear brake caliper mounting bracket assembly on 2007 Ford® F-450®/F-550® trucks
- Tool fits between the bracket bolt and frame to allow the use of a torque wrench to properly torque the bracket bolts
- 1/2" square drive, 12-point, 24 mm, 6" center-to-center length, 7-7/32" long

## Valve Adjusters

### S6205<sup>†</sup> Valve Adjuster Socket

- See-through window in the 14 mm socket allows the technician to see the position of the 5 mm hex blade
- Faster valve adjustment time
- Sized for low clearance
- Soft grip handle
- Applications include 2002-later Mercedes-Benz® 900 series diesel engines and 2002-later trucks and buses

### VAT930<sup>†</sup> Diesel Valve Adjustment Tool 15 mm/7 mm

- Two-in-one tool features a window in the socket allowing the technician to see the position of the nut driver holding the adjustment screw as the jam nut is tightened
- Unique handle pivots from one side to the other so the window is always visible
- Made from heat-treated 4140 steel, the tool is strong enough to handle the high breaking torque required after long service intervals
- Multi-functional design frees up one hand for feeler gauge operation

### VAT940<sup>†</sup> Diesel Valve Adjustment Tool 15 mm/Flat

- Two-in-one tool features a window in the socket allowing the technician to see the position of the screwdriver blade holding the adjustment screw as it is tightened
- Unique handle pivots from one side to the other so the window is always visible
- Made from heat-treated 4140 steel, the tool is strong enough to handle the high breaking torque required after long service intervals
- Multi-functional tool design frees up one hand for feeler gauge operation

### YA8880-3<sup>†</sup> Wire Handle with Grip

- Handle with slip cover—clips into the tool and pivots from one side to the other so the socket "window" is always visible



S6205



VAT930



VAT940



YA8880-3

## Hand Sockets

- Essential for removing motorcycle front wheels
- Use torque wrench for axle torque specs
- Use breaker bar to remove difficult fasteners

### HXD22 1/2" Drive External Hex 22 mm Socket

- Applications: 2002 and later Kawasaki® motorcycles; 2002 and later Honda® motorcycles; 2002 and later Triumph® motorcycles

### HXD24 1/2" Drive External Hex 24 mm Socket

- Applications: Suzuki® motorcycles (1300GSXR and 1000GSXR); Hayabusa® motorcycles (various models)

### SAM12LE 1/2" Drive Metric 12 mm Long Hex Bit Socket Driver

- 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

### TUA6E 1/4" Drive 3/16" Stubby Flex Hex Bit Socket

- Precision machined and heat-treated for optimum strength and durability
- Replacement Bit – TMAXS6E2



HXD22

HXD24



TUA6E



SAM12LE

## Special Application

- Spark plug extends through the socket for access in tight quarters
- Patented tapered hex design securely retains the spark plug in the socket without a rubber insert or magnet
- Patented diamond wedge design with six wedges equally aligns the spark plug in the center to avoid damage to the porcelain
- Spark plug is easily disengaged from the socket by applying gentle side pressure to break the contact
- 5/8" offset spark plug socket for limited-access situations
- Side through-hole for secure extension retention
- Spark plug socket is cold formed for extended tool life
- Low-profile socket easily reaches spark plugs without interference from custom exhausts or chassis

### S9704RHS 3/8" Drive 6-Point SAE 13/16" Flank Drive® Low-Profile Spark Plug Socket

- Knurled surface for finger tightening and removal

### S9724RHS 3/8" Drive 6-Point SAE 5/8" Flank Drive® Low-Profile Spark Plug Socket



S9704RHS



S9724RHS

## Motorcycle Service Equipment

### EEPV503‡ Motorcycle Compression Gauge Set

- Tests motorcycles and recreational vehicles with hard-to-access spark plug ports
- Gauge assembly includes a 2-3/4" dia. gauge and 18" flexible hose with a quick coupler
- Includes EEPV5G10L, EEPV5G12L and EEPV5G14L



EEPV503

## 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
- Non-marring cover uses a non-abrasive inner liner that will not slide off



KAC1224TCA



- Read and follow safety messages in Instructions.
- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- ‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.
- Read Safety Precautions on pages W1–W4

**MOTORCYCLE SERVICE TOOLS**



HDM1236



HD6529

**Adjusting Tools**

**HDM1236 Axle Nut Torque Adaptor for Harley-Davidson® Motorcycles**

- Allows adjustment of the drive belt on certain Harley-Davidson® models without removing the saddlebags, exhaust pipes, or other parts and accessories
- 1/2" square drive, 36 mm wrench
- Center-to-center length is stamped on the adaptor for easy torque calculation

**HD6529† Ratcheting Hex Wrench (Blue-Point®)**

- Reversible ratchet lever is conveniently located for one-hand operation
- 3/16" hex bit is easily replaced if damaged
- Low-profile design for extra clearance between the 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



OFHD

**Funnels/Spouts**

**OFHD Oil Filler for Harley-Davidson® Motorcycles**

- Allows access to the fuel filter and pump as the lock ring is connected to the pump
- 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
- ABS plastic
- Smooth surface will not scratch painted surface



SGSR104AR

**General Service Tools**

**SGSR104AR 4 pc Instinct® Soft Grip Seal Removal Tool Set**

- For use on 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
- SGSR1AR–SGSR4AR (4 pc) in a storage tray



YA173B

**Colors Available**



ADD SUFFIX TO STOCK NUMBER FOR SPECIAL COLORS.

**YA173B† 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
- For use with air lines only—do not use on inflators



TPCLRA

**TPCLRA† Right Angle Air Chuck**

- Low-profile right-angle design easily accesses hard-to-reach valve stems
- Ideal for motorcycles and ATV tires
- Closed chuck for use on live air lines
- 175 PSI maximum working pressure
- Durable brass body with a plated finish
- 1/4" FNPT

## General Service Tools

### A15A 1/2" Drive 1-3/16" Blade Width Drag Link Socket

- Applications include usage on the engine oil drain plug and rear differential drain plug on Kawasaki® UN1500, UN1600 and UN2000 motorcycles

### CPT110A 3/8" Drive 6-Point Metric 17 mm VW® Transmission Drain Plug Socket

- For use on VW® transmission drain plugs
- Additional applications include removing the front wheels on Triumph® Daytona® and America motorcycles

### GF22 3/8" Drive 11/16" Blade Width Drag Link Socket

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

### MT125A Self-Powered Timing Light (Blue-Point®)

- 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
- On/Off switch is located within thumb's reach
- Maximum 2,000 RPM

### S7100 1/2" Drive 1-3/4" Compensator Holder Harley-Davidson®

- Use with 1/2" breaker bar to hold Harley-Davidson® compensator sprocket for removing or installing center bolt
- Single person operation when utilizing tool as described
- Tool allows for proper torque application during installation, and impacting during removal of center bolt
- 1-3/4" single hex, 1/2" square drive

### TA358† 3/8" Square Drive Torque Angle Gauge

- Determines angle controlled torque tightening
- Allows user to follow manufacturer's specifications
- Used on automotive, diesel and industrial equipment, plus head bolts and rod bolts on motorcycles
- 1/4" FNPT

### VT1B‡ Valve Stem Puller

- Vinyl spacer protects rims
- Simplifies inserting any tubeless tire valve
- Swivel head screws onto the cap thread of the tire valve
- Handle is used as a lever to pull the tire valve into the rim hole



A15A



CPT110A



MT125A



TA358



S7100



VT1B

## Service Set

### CYCLESET 33 pc Motorcycle Tool Set

- Services most US-manufactured motorcycles from battery service, cable and clutch adjustments, to gas tank and seat removal—covers roadside maintenance and emergency repairs
- Includes (1) gap gauge, (1) 3/8" drive 6-point SAE 13/16" shallow spark plug socket, (1) 1/4" internal drive x 3/8" external drive adaptor, (1) 1/4" drive 4" knurled extension, (6) 1/4" drive 6-point SAE shallow sockets (9/16, 1/4, 5/16, 3/8, 7/16 and 1/2"), (1) 1/4" drive sliding T-handle, (1) 12-point metric 10 mm short combination wrench, (2) 1/4" hex flat tip power bits, (1) 1/4" hex PHILLIPS® #2 power bit, (5) 1/4" hex TORX® power bits (T15, T20, T25 and T30), (2) 5/16" TORX® insert bits (T40 and T45), (5) 1/4" hex SAE power bits (1/8, 5/32, 3/16, 7/32 and 1/4"), (2) 5/16" hex SAE power bits (5/16 and 3/8"), (1) 1/4" drive magnetic bit socket, (1) 3/8" drive 6-point SAE 5/8" standard retention spark plug socket, (1) 8" adjustable wrench and (1) 1/4" drive standard ratchet
- Includes a kit bag



CYCLESET

- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- Wear safety goggles (user and bystanders).
- Read and follow safety messages in the Instructions.
- Do not use in environment with explosive vapor.

†These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.

- Read Safety Precautions on pages W1-W4



## AVIATION SAFETY WIRING



### 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.



### Wire Twister/Cutters

Stock No.	Description (Chart)	Overall Length, inches	Wire Capacity, inches	Wire Retainer
GA311C <sup>‡</sup>	Wide range of applications	10-1/2	.060	No
PR311 <sup>‡</sup>	Similar to GA311C, but not spring loaded. Right-hand only with manual return.	10-1/2	.060	No
WTR1A <sup>‡</sup>	Reversible Wire Twister/Cutters	8-3/4	.041	No
WTS6 <sup>‡</sup>	Reversible Wire Twister	8-3/4	.041	Yes
WTRW6A <sup>‡</sup>	Reversible Wire Twister/Cutters	8-3/4	.041	Yes
WTG8A	Reversible Wire Twister	8	.015-.031	Yes
WTRW9 <sup>‡</sup>	Reversible Cushion Throat Wire Twister/Cutter	11	.02-.06	Yes
WTG10A	Reversible Wire Twister	10-1/2	.031-.039	Yes
WT11D <sup>‡</sup>	Small size for use in tight quarters	8-1/2	.041	No



WT105-2004



WT105-2016

### Safety Wire

Stock No.	Wire Size, inches (mm)	Wire Length, feet (meters)	Container
WT105-2004 <sup>‡</sup>	.020 (.51)	230 (70)	1/4 lb Spool
WT105-2016 <sup>‡</sup>	.020 (.51)	937 (286)	1 lb Canister
WT105-2516 <sup>‡</sup>	.025 (.64)	599 (183)	1 lb Canister
WT105-3204 <sup>‡</sup>	.032 (.81)	90 (27)	1/4 lb Spool
WT105-3216 <sup>‡</sup>	.032 (.81)	366 (112)	1 lb Canister
WT105-4116 <sup>‡</sup>	.041 (1)	223 (68)	1 lb Canister
WT105-4204 <sup>‡</sup>	.041 (1)	55 (17)	1/4 lb Spool
WT105-5116 <sup>‡</sup>	.051 (1.3)	144 (44)	1 lb Canister

## AVIATION: SPECIALTY SERVICE TOOLS



AOC01

### Aircraft Oil Filter Wrenches

#### AOC01<sup>‡</sup> FOD Oil Can Opener

- Testing by Saybolt<sup>®</sup> laboratory proves this can opener eliminates a cause of FOD, eliminating costly downtime and repairs
- Using a screwdriver to open an oil can may leave metal debris in the oil, causing FOD to turbines
- Can opener is made of reinforced high-quality plastic designed to open a quart can of oil
- Durable, ergonomic, non-slip design is pocket size and can be attached to a key ring



AOFW2

#### AOFW2<sup>‡</sup> Aviation Oil Filter Wrench

- Oil filter wrench can be used for the installation and removal of 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
- Refer to the Snap-on<sup>®</sup> SS306G Torque Chart for formula to obtain the correct applied torque



AFPW38

### Aircraft Vacuum/Fuel Pump Wrenches

#### AFPW38 Aircraft Fuel Pump Wrench

- Small crowfoot for removal and installation of the fuel primer/injector line on Continental<sup>®</sup> and Lycoming<sup>®</sup> engines
- Can be used with a 1/4" drive extension and will easily fit into tight areas



AVPW716

#### 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<sup>®</sup>: Skyhawk<sup>®</sup>, Skylane<sup>®</sup>, Stationair<sup>®</sup> Piper<sup>®</sup>: Cub<sup>®</sup>, Warrior<sup>®</sup>, Archer<sup>®</sup>, Seminole<sup>®</sup>, Aztec, Navaho, Chieftain Mooney<sup>®</sup>: M<sup>®</sup> 20 series, M<sup>®</sup> 200 series, Ovation, Acclaim Beechcraft<sup>®</sup>: Bonanza<sup>®</sup>, Duchess, Baron<sup>®</sup> Cirrus<sup>®</sup>: SR20 and SR22 aircraft

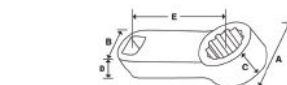
## Torque Adaptors, mm (1/4" Drive)

- Manufactured from special alloy steel
- Precision forged and heat-treated for optimum strength and durability
- 12-point double hex allows the socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- 1" center-to-center length on adaptor for easy torque calculations
- Design features radius edges that resist damage/nicks

mm	Stock No.	A	B	C	D	E
6	TRDHM6***	9.5	11.9	6.6	6.6	25.4
7	TRDHM7**	9.5	11.9	6.6	6.6	25.4
8	TRDHM8**	9.5	11.9	6.6	6.6	25.4

\*For applications involving AS350/355 Airbus® helicopters (formerly Eurocopter) known as A-star® and Twin-Star helicopters in North America

\*\*Used attached to a torque wrench on a hard-to-reach fastener



TRDHM6

**TRDHM6 1/4" Drive 12-Point Metric 6 mm Torque Adaptor**

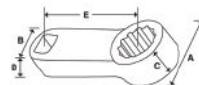
**TRDHM7 1/4" Drive 12-Point Metric 7 mm Torque Adaptor**

**TRDHM8 1/4" Drive 12-Point Metric 8 mm Torque Adaptor**

## Torque Adaptors, SAE (1/4" Drive)

- Manufactured from special alloy steel
- Precision forged and heat-treated for optimum strength and durability
- Double hex (12 point) allows socket to engage single hex fastener every 30° rather than every 60°, allowing for better access in restricted areas
- Center-to-center length on adaptor for easy torque calculations

mm	Stock No.	A	B	C	D	E
5/16	TRDHL101	1/2 (12.7)	15/32 (11.91)	1/8 (3.18)	17/64 (6.75)	2 (50.8)
5/16	TRDHL101	1/2 (12.7)	15/32 (11.91)	17/64 (6.75)	17/64 (6.75)	2 (50.8)
3/8	TRDHL121	37/64 (14.68)	15/32 (11.91)	17/64 (6.75)	17/64 (6.75)	2 (50.8)
7/16	TRDHL141	43/64 (17.1)	15/32 (11.91)	17/64 (6.75)	17/64 (6.75)	2 (50.8)
1/4	TRDHL81	13/32 (10.32)	15/32 (11.91)	17/64 (6.75)	17/64 (6.75)	2 (50.8)



TRDHL121

## Torque Adaptor

### FTA35 3/8" Drive Female/Male Torque Adaptor

- Used with a socket and torque wrench to reach and properly torque fasteners in hard-to-access areas
- 3-1/2" length measured center to center

### STA35 1/2" Drive Female/Male Torque Adaptor

### TTA35 1/4" Drive Female/Male Torque Adaptor



FTA35



STA35



TTA35

## Hose Clamp Socket

### AHCS1 Aircraft Hose Clamp Socket

- Use on hose clamps found on Lycoming®, TCM (Continental®) and other engines found on Cessna®, Piper® and Beechcraft® aircraft
- Slotted socket is for removing and installing the three different size thumb knobs found on aircraft hose clamps

- Competitive sockets only work on one size and have a rubber O-ring that can cause a FOD issue
- 1/4" square drive



AHCS1

## Fan Bolt Impact Socket

mm	Stock No.	A	B	C	D	E
3/4	IMTSX29	1-3/8	1-5/8	1	2	9/16

### IMTSX29 External Mortorq® Impact Socket

- Used on fan bolts found on Rolls Royce® engines used on Airbus® A380® jets

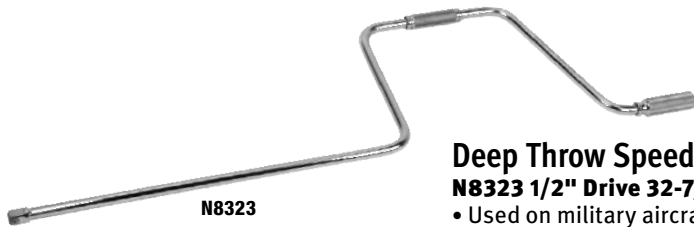


IMTSX29



- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- Wear safety goggles
- Do not use on live electrical circuits.
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.
- Read Safety Precautions on pages W1-W4

# AVIATION SPECIALTY SERVICE TOOLS



## Deep Throw Speeder

**N8323 1/2" Drive 32-7/8" Deep Throw Speeder Drive Handle**

- Used on military aircraft to manually fold wings and lower landing gear



## Aircraft Landing Gear Tools

- 1/2" driver deep throw speeder with pinned universal and ratchet adaptor
- LH100 and 755121 are required to be on board a C-130® aircraft before it can leave the ground



### LH100 Ratchet Spline Boxsocket Assembly

- Extended-reach 1/2" drive ratchet with a pinned spline socket on one end and a box end spline wrench on the other

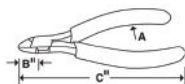
### 755121-1 1/2" Drive 23-7/8" Ratchet Adaptor Deep Throw Speeder

- 1/2" driver deep throw speeder with pinned universal and ratchet adaptor



### LGSW125<sup>†</sup> Landing Gear Socket Wrench

- Used to remove and replace the landing gear harness through-bolt on Embraer® 190 aircraft
- 1-1/4" deep well socket with 1/4" slit cut allows the speed cable to pass through
- 3/8" square drive allows the torque wrench to torque the nut to 80 in-lb
- Flex-head and overall length is 11-1/2"

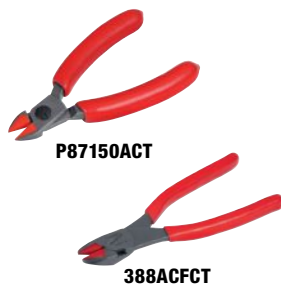


## Cushion-Throat Cutters

- Urethane insert in jaws captures clipped material, reducing the likelihood of work environment contamination
- Retention of wire clippings enhances worker safety by preventing projectile material from being scattered throughout the worksite
- Handles are designed for comfort and deliver the leverage needed to tackle the most demanding jobs
- Quality forged steel ensures tools will provide years of service
- Fluorescent urethane formula helps reduce the potential of leaving the tool behind—just shine a UV light on the head of the cutter to activate its illuminating effect



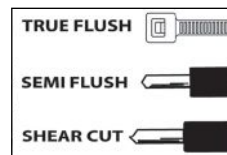
Stock No.	Description	A	B	C
84CFCTA	Cushion Throat Diagonal Cutter	Bowed	3/8	4-3/4
86ACFCT	Cushion Throat Diagonal Cutter	Bowed	3/4	6-5/16
P87150ACT	Cushion Throat 5" Oval Cutter—True Flush Cut	Bowed	17/32	5-3/16
388ACFCT	8" High-Leverage Cushion Throat Diagonal Cutter	Bowed	1-1/16	8-5/16



**True Flush:** Blades cut stranded wire ends and zip tie ends flat, allowing protruding ends to be trimmed flush


**Semi-Flush:** Ground blades cut slightly pointed wire ends and can be used where an exact flush cut is not required

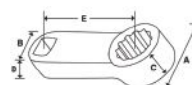
**Shear Cut:** Ground blades (on standard cutters) are designed for general cutting with less hand pressure and extended blade life



## Spline, Low-Profile, inches

- Precision crafted from special alloy steel and heat treated for optimum strength and durability
- Nickel-chrome finish helps protect against corrosion and makes it easy to wipe clean
- Unique spline wrenching configuration can be used on ordinary 6- and 12-point fasteners
- Ideal for use with torque wrenches
- Will save time and avoid clearance issues when working on propeller assemblies
- Works on a wide variety of Lycoming® and Continental® engines used in Piper®, Cessna® and Mooney® aircraft

	Stock No.	A	B	C	D	E
	7/16 <b>FRESL14</b>	3/4 (19.05)	3/4 (19.05)	3/16 (4.76)	7/16 (11.11)	2 (50.8)
	1/2 <b>FRESL16</b>	25/32 (19.84)	3/4 (19.05)	3/16 (4.76)	7/16 (11.11)	2 (50.8)
	9/16 <b>FRESL18</b>	13/16 (20.64)	3/4 (19.05)	3/16 (4.76)	7/16 (11.11)	2 (50.8)
	5/8 <b>FRESL20</b>	29/32 (22.8)	47/64 (18.8)	3/16 (4.7)	7/16 (10.9)	2 (50.8)
	11/16 <b>FRESL22</b>	1 (25.1)	47/64 (18.8)	3/16 (4.7)	7/16 (10.9)	2 (50.8)
	3/4 <b>FRESL24</b>	1-5/64 (50.2)	3/4 (19.05)	7/16 (11.11)	3/16 (4.76)	2 (50.8)
	7/8 <b>FRESL28</b>	1-1/4 (31.75)	3/4 (19.05)	7/16 (11.11)	3/16 (4.76)	2 (50.8)
	15/16 <b>FRESL30</b>	1-5/16 (33.9)	47/64 (18.8)	3/16 (4.7)	7/16 (10.9)	2 (50.8)



FRESL14



FRESL20

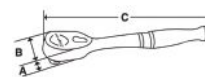


FRESL30

## HI-LOK® Fastener Ratchets

Stock No.	Square Drive, inches	Gear Teeth	Swing Arc	A	B	C
FCY72	3/8	72	5	7/16	15/16	4-5/8
TFY72	1/4	72	5	7/16	15/16	6-1/4
TY72	1/4	72	5	7/16	15/16	4-5/8

ASME®/ANSI® B107.10



FCY72



TFY72



TY72

## OIL AND GAS SERVICE TOOLS



APW10VLV



ATSK3621



GADW8VLV



GADW10VLV

## Specialty Service Tools

### APW10VLV Valve Persuader Wrench

- Refinery wrench used in oil and gas downstream facilities
- Great universal multi-tool for numerous daily applications, including 4 and 6" quick turns to open and close the valves

### ATSK3621 Hex-to-Square Adaptor

- Used with the B2192 Impact Pentagon Socket to remove and tighten special bolts used by electrical utilities on pad-mounted and sub-surface underground facilities
- 7/16" hex, 1/2" square adaptor
- 3" long

### GADW8VLV 8-1/2" Adjustable Valve Persuader Wrench

- Two tools combined into one convenient operator's tool that can be used wherever valves are adjusted for flow and pressure
- 8-1/2" overall length supplies leverage while being compact enough to be easily carried
- Adjustable wrench has large, 1-1/2" capacity
- 3/4" valve wheel wrench opening
- Precision hardened and anti-corrosion treated
- Easy-to-read size measurement scale: SAE on one side, metric on the other

### GADW10VLV 10" Adjustable Valve Persuader Wrench

- 10" overall length supplies leverage while compact size allows for easy carrying
- Adjustable wrench has large, 1-3/4" capacity

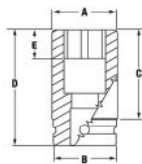


- Plastic coated handle does not protect against electric shock.
- Frequently inspect, clean, and lubricate all non-sealed ratchet mechanisms with light oil
- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- †These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.
- Read Safety Precautions on pages W1-W4

## OIL AND GAS SERVICE TOOLS




IM632BC1.5



### Shallow, Single Square Impact Sockets, inches

• This “end effector” socket is used in the manufacturing of subsea and surface wellhead equipment in the oil and gas industries

	Stock No.	Square Drive, inches	A	B	C	D	E
1	IM632BC1.5	3/4	2-1/8	1-3/4	—	2-1/4	3/4
1	IM732BC1.5	1	2-1/8	2-1/8	—	2-3/4	3/4
1-1/2	IM748BC1.5	1	2-7/8	2-3/8	1-5/8	3-1/2	7/8
1.66	IM753.1BC1.5	1	1-15/16	2-3/8	—	3-1/2	1-1/16





OG2824



OG2828

### Generator Engine Sockets

- Socket is used in the oil and gas industries to adjust valves on large generator engines
- Removes cover bolts and adjusts valves on Waukesha® VHP® Series engines
- Sockets are used with a XO2830 7/8–15/16" standard-length deep 60° offset wrench
- The offset on the wrench protects the user’s hand during valve adjustment
- Retaining Ring holds the socket onto the 7/8" part of the XO2830 wrench, as the sockets have a 7/8" male hex

		External Hex, inches	Style
3/4	OG2824	7/8	12-Point
7/8	OG2828	7/8	12-Point

## RAILROAD SERVICE TOOLS




N8842



N8741

### Track Bolt and Frog Bolt Sockets, inches

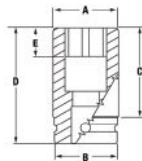
	Stock No.	Drive Size, inches
1-11/16	N8834	1
1-13/16	N8835	1
1-5/8	N8842	1
1-7/16	SIM746NT	1
2-3/16	N8741	1

#### N8741 Frog Bolt Socket


- 1" drive socket is used primarily for Frog bolt applications



N8913




### Side Bearing Cage Socket

	Stock No.	Drive Size, inches	A	B	C	D	E
E20	N8913	3/4	1-5/32	1-5/8	3/4	1-3/4	1/2

#### N8913 3/4" Drive E20 TORX® Side Bearing Cage Socket

- 3/4" drive E20 TORX® socket services the break-off portion of the side bearing cage bolt
- Used for installation of shear type E20 bolt during alignment of suspensions on Hendrickson® trailers

## Railroad Wrenches

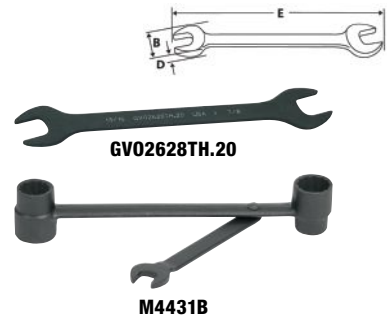
	Stock No.	B	D	E
13/16-7/8"	<b>GVO2628TH.20</b>	1-11/16-1-13/16	7/32	10

### GVO2628TH.20 Open-End 1-11/16-1-13/16" Railroad Wrench


- Used on railroad auxiliary generator coupler nuts (EMD locomotives)

### M4431B Car Yard Inspector Wrench

- Tightens air brake external nuts and cover screws
- Incorporates (4) 12-point sockets (3/4", 7/8", 15/16" and 1") plus a 9/16" open wrench all in one tool
- Box end portion of the wrench is 10-3/8" long
- Open end portion of the wrench is 6-1/4" long



## Railroad Torque Socket


	Stock No.	A	B	C	D	E
3/4"	<b>SIMDTSA402</b>	2	1-21/32	3-1/2	5-7/16	13/16

### SIMDTSA402 Railroad Torque Socket

- Allows operators to use angle torque to obtain proper torque on AH traction motor gearcase bolts when applying to new gearcases or replacing broken gearcase bolts



## Lag Screw Sockets, inches

	Stock No.	A	B	C	D	E
1-1/8 x 7/8	<b>5703747UPA</b>	1-7/8	2-1/8	1-3/4	3-1/2	7/8
1	<b>IM728NT</b>	1-3/4	2-1/8	31/32	2-1/8	13/16
1-1/8	<b>IM736NT</b>	1-13/16	2-1/4	1-3/32	2-1/4	3/4

### 5703747UPA Rectangular Head Lag Socket

- For use on special rectangular head lag screws
- Rectangular head timber screw spikes are used to secure the rail anchor or rail clip
- The screw spikes are used by all railroads to varying degrees, but mainly the North American freight railroads (BNSF®, NS®, CSX®, UP®RR, KCS, CP Rail System® and CN® Rail)
- The opening is 1-1/8 x 7/8" with a 1" square drive and can be used on an impact wrench

### IM728NT Lag Screw Socket

- 1" drive, 1" square

### IM736NT Lag Screw Socket

- 1" drive, 1-1/8" square



## Manual Nut Splitter

Stock No.	Description
<b>NC52</b>	Manual Nut Splitter
<b>NC52-3</b>	Extra Cutter
<b>NC52-4A</b>	Anvil

### NC52 Manual Nut Splitter

- Used for splitting nuts up to 3/4" across the flats
- Bar acts as a handle to hold the tool securely



- Do not use chrome or industrial finish hand tools with power drivers or impact drivers.
- Read Safety Precautions on pages W1-W4

**US APPRENTICE SET**



**9100GSBO**

**US Apprentice Set**

Stock No.	Description	Page
114ATMP	14 pc 1/4" Drive 6-Point SAE Shallow General Service Socket Set	132
206EAU	6 pc 3/8" Drive Adaptor/Extension Set	151
211FSY	11 pc 3/8" Drive 6-Point SAE Flank Drive® Shallow Socket Set	155
211SFSY	11 pc 3/8" Drive 6-Point SAE Flank Drive® Deep Socket Set	157
317MSPC	17 pc 1/2" Drive 6-Point SAE General Service Socket Set	232
91ACP	9" Adjustable Joint Interlocking Channel Pliers	382
AW1015DHK	15 pc SAE L-Shaped Hex Wrench Set	303
BP16B	16 oz Ball Peen Hickory Handle Hammer (Blue-Point®)	401
CSA8C	Rigid Carbon Scraper	413
ENC09602001	Veratti® M50	—
F80	3/8" Drive Dual 80° Technology Standard Handle Ratchet	144

Stock No.	Description	Page
GA295†	2-1/4" Round Mirror with 14" Shaft (Blue-Point®)	777
HBPT16	16 oz Plastic Tip Hammer	400
HS50	Quick Cutter Hand Saw	403
HSG319	Bi-Mold Soft Grip Handle Hacksaw	403
MAGST2D016	2D Cell LED Maglite® Flashlight	—
OEX709B	9 pc 12-Point SAE Flank Drive® Combination Wrench Set	274
PL307ACF	3 pc Pliers Set	377
PPC710BK	11 pc Punch and Chisel Set	395
PRH57A	Convertible Retaining Ring Pliers (Blue-Point®)	385
PT5C†	Telescopic Magnetic Pick-Up Tool (Blue-Point®)	776
PWC6†	Wire Stripper/Cutter (Blue-Point®)	388
SHDX800	8 pc Instinct® Hard Grip Combination Screwdriver Set	343
TPMA12	12" Tape Rule	775

- 9100GSBO Complete Apprentice Set**
- Includes 9100GSO and the KRA2055FPBO Top Chest
  - **9100GSO Apprentice Set**
  - US Apprentice Set tools only
  - Does not include a top chest

- 9100GSM Metric Plus Apprentice Set**
- 9100GS Set plus, AWM110DK Metric Hex Wrench Set (11 pc), 212FMY Metric 12-Point Socket Set (12 pc) and OEXM710B metric 12-Point Combination Wrench Set (10 pc)
  - Does not include a top chest



9000GS2

KRA4059FPB0

US Set 2

Stock No.	Description	Page
1650	16" Prybar	376
110STMY	10 pc 1/4" Drive 6-Point SAE Flank Drive® Deep Socket Set	114
112TMMY	12 pc 1/4" Drive 6-Point Metric Flank Drive® Shallow Socket Set	112
2004BSKA	4 pc Battery Service Kit	701
212EFTXY	12 pc Combination Drive TORX® Bit Standard Socket Set	120
212FSMY	12 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow Socket Set	155
212SFSMY	12 pc 3/8" Drive 6-Point Metric Flank Drive® Deep Socket Set	156
97ACF	9" Needle Nose Pliers	380
AC5C	Hand Scratch Brush (Blue-Point®)	812
AWM110DHK	11 pc Metric L-Shaped Hex Wrench Set	303
FADH12C	12" Flank Drive® Plus Adjustable Wrench	305
FB303B‡	Wire Gap for Electronic Ignition Systems Gauge	772
FB316B‡	Feeler Gauge Set (Blue-Point®)	770
FB325A‡	25 pc SAE and Metric Feeler Gauge Set (Blue-Point®)	453
FB361A‡	Gapper Gauge (Blue-Point®)	772
FLF80A	3/8" Drive Dual 80° Technology Long Handle Flex-Head Ratchet	145

Stock No.	Description	Page
FXK11	3/8" Drive 11" Knurled Friction Ball Extension	149
GSAF1F	1/2" Drive Square Drive Adaptor	205
KRA4059FPB0	26" Nine-Drawer Top Chest	46
LP10WR	Curved Jaw with Cutter Locking Pliers	383
OEX30B	15/16" 12-Point SAE Flank Drive® Combination Wrench	275
OEX32B	1" 12-Point SAE Flank Drive® Combination Wrench	275
OEXM710B	10 pc 12-Point Metric Flank Drive® Combination Wrench Set	273
PK53A	Single Bevel Putty Knife/Scraper (Blue-Point®)	414
RXFS605B	5 pc 6-Point SAE Flank Drive® Double End Flare Nut Wrench Set	288
S9704KA	3/8" Drive 6-Point SAE 13/16" Flank Drive® Shallow Spark Plug Socket	422
S9706KRA	3/8" Drive 6-Point SAE 5/8" Flank Drive® Standard Retention Spark Plug Socket	421
SGA173BR	Soft Grip Radiator Hose Pick	722
SGASA204CR	4 pc Instinct® Soft Grip Miniature Pick Set	370
SGDMRC44B	Ratcheting Soft Grip Standard Screwdriver	355
SGT4BR	1/4" Drive 6-13/16" Instinct® Soft Grip Standard Shank Driver	107
TMXK60	1/4" Drive 6" Knurled Extension	108

**KRA4059FPB0 26" Nine-Drawer Top Chest**

- Lock 'N Roll® system prevents the drawers from drifting open during unit movement
- Drawer pulls are 50% deeper than other brands for better leverage
- Rolled drawer edges for strength and safety
- Teardrop-shaped drawer hems provide safe edges and keep drawers from sagging
- High-security tubular interchangeable locks
- Tough nine-step pre-painting process
- Four Colors: Red (PBO), Gloss Black (PC), Royal Blue (PCM), Electric Orange (PJK)

**9000GS2 Add-On Group 2**

- More than 100 pc
- Does not include a tool storage unit

**9200AGSO Tools Only US Set 2**

- Includes 9100GSO and 9000GS2
- Does not include tool storage

**9200GSB Complete US Set 2**

- Includes 9100GSO, 9000GS2, plus the KRA4059FPB0 top chest



‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.  
 • Read Safety Precautions on pages W1-W4

**US SET 3**



**KRA4059FPBO**



**KRA4008FPBO**



**9000GS30**

**US Set 3**

Stock No.	Description	Page
112STMMY	12 pc 1/4" Drive 6-Point Metric Flank Drive® Deep Socket Set	113
207EFAMY	7 pc 3/8" Drive Metric Hex Bit Socket Set	170
208EFAY	8 pc 3/8" Drive SAE Standard Hex Bit Socket Set	171
310IMMYA	10 pc 1/2" Drive 6-Point Metric Flank Drive® Shallow Impact Socket Set	220
310SIMMYA	10 pc 1/2" Drive 6-Point Metric Flank Drive® Deep Impact Socket Set	222
311IMYA	11 pc 1/2" Drive 6-Point SAE Flank Drive® Shallow Impact Socket Set	221
313TWMYA	13 pc 1/2" Drive 6-Point Metric Flank Drive® Shallow Socket Set	208
AC58E	Wire Brush (Blue-Point®)	812
IP80D	1/2" Drive Swivel Ball Lock Button Impact Universal Joint	219
JT13B	Blow Gun (Blue-Point®)	573
OEXM6B	6 mm 12-Point Metric Flank Drive® Short Combination Wrench	276
OEXM7B	7 mm 12-Point Metric Flank Drive® Short Combination Wrench	276
OEXM8B	8 mm 12-Point Metric Flank Drive® Short Combination Wrench	276
OEXM9B	9 mm 12-Point Metric Flank Drive® Short Combination Wrench	276
PT850	1/2" Drive Air Impact Wrench	525
QD3R250A	1/2" Drive SAE Adjustable Click-Type Fixed Ratchet Torque Wrench (50–250 ft-lb)	314
RXFMS606B	6 pc 6-Point Metric Flank Drive® Double End Flare Nut Wrench Set	288
S8	1/2" Drive 2-11/16" Friction Ball Universal Joint	206
SL80A	1/2" Drive Dual 80° Technology Long Handle Ratchet	201
SPBS24AO	24" Striking Prybar	374
SXK3	1/2" Drive 3-1/2" Extension	204
TF72	1/4" Drive Dual 80° Technology Standard Handle Flex-Head Ratchet	104
TMXK140	1/4" Drive 14" Knurled Extension	108

**9000GS30 Add-On Group 3**

- More than 100 pc
- Does not include tool storage

**9300GSB0 Complete US Set 3**

- Includes 9200AGS and 9200GS3, plus the KRA4008FPBO Roll Cab and KRA4059FPBO Top Chest

**9300GSO Tools Only US Set 3**

- Includes 9200AGS and 9000GS3
- Does not include tool storage



9000GS40



9400GSB0

US Set 4

Stock No.	Description	Page
1250	12" Prybar	376
206AFSA	6 pc 3/8" Drive 6-Point SAE Flank Drive® Shallow Universal Socket Set	159
206FSUMA	6 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow Flex Socket Set	159
207SFRH	7 pc 3/8" Drive 6-Point SAE Flank Drive® Flare Nut Crowfoot Wrench Set	291
210FRHMA	10 pc 3/8" Drive 6-Point Metric Flank Drive® Flare Nut Crowfoot Wrench Set	291
313TSYA	13 pc 1/2" Drive 6-Point SAE Flank Drive® Deep Socket Set	209
388ACF	8" High-Leverage Diagonal Cutter	378
61CF	8" Duck Bill Pliers	381
AWP160	16" Adjustable Joint Pliers	382
BP24B	24 oz Ball Peen Hickory Hammer (Blue-Point®)	401
CJ2001P	Bolt Grip Puller Set	—
CSA12CO	12-7/8" Rigid Carbon Scraper	413
E1020	19 pc Extractor Set (Blue-Point®)	427
FADH8B	8" Flank Drive® Plus Adjustable Wrench	305
FL80	3/8" Drive Dual 80° Technology Long Handle Ratchet	144
FX24A	3/8" Drive 24" Friction Ball Extension	149
FXK4	3/8" Drive 4" Knurled Friction Ball Extension	149
FXK8	3/8" Drive 8" Knurled Friction Ball Extension	149
HBBD32	32 oz Ball Peen Soft Grip Dead Blow Hammer	399
HBFE32	32 oz Soft Grip Dead Blow Hammer	398
JCW62R	Standard Creeper	762
LP7WR	7" Curved Jaw with Cutter Locking Pliers	383
OEX080B	1/4" 12-Point SAE Flank Drive® Short Combination Wrench	277
OEX10B	5/16" 12-Point SAE Flank Drive® Combination Wrench	275
OEX34B	1-1/16" 12-Point SAE Flank Drive® Combination Wrench	275
OEX36B	1-1/8" 12-Point SAE Flank Drive® Combination Wrench	275

Stock No.	Description	Page
OEX40B	1-1/4" 12-Point SAE Flank Drive® Combination Wrench	275
OEXM200B	20 mm 12-Point Metric Flank Drive® Combination Wrench	273
OEXM210B	21 mm 12-Point Metric Flank Drive® Combination Wrench	273
OEXM220B	22 mm 12-Point Metric Flank Drive® Combination Wrench	273
OEXS709B	9 pc 6-Point SAE Flank Drive® Short Combination Wrench Set	277
OEXSM710B	10 pc 12-Point Metric Flank Drive® Short Combination Wrench Set	276
PPB1012A	Bronze Tapered Punch	397
PPC104A	Pin Punch	395
PPC108A	5-3/4" Pin Punch	395
PPC204A	5-3/4" Starter Punch	395
PPC208A	6-3/4" Starter Punch	395
PPC3A	Center Punch	395
PPC5A	6-15/16" Punch/Chisel Holder	395
SGCP1BR	Soft Grip Cotter Pin Puller	675
SGHBF500A	4 pc Instinct® Mixed File Set	410
SHDX40R	4 pc Instinct® Combination Hard Grip Mini-Tip Screwdriver Set	343
SN24C	1/2" Drive 24" Standard Handle Breaker Bar	203
SPBS18A0	18" Striking Prybar	274
SRPCR105	5 pc Snap Ring Pliers Set	384
SSM5A	Flat Tip Screw Aluminum Starter (Blue-Point®)	358
SX2	1/2" Drive 2" Extension	204
TA3	1/4" Drive Square Drive Adaptor	109
TF528D†	Tube Cutting and Double Flaring Set (Blue-Point®)	417
TM61A	1/4" Drive 6" Flexible Extension	109
TMX1	1/4" Drive 1-1/4" Extension	108
TMXK110	1/4" Drive 11" Knurled Extension	108
UTK100	Retractable Utility Knife	409

9000GS40 Add-on Group 4

- More than 250 pc
- Does not include tool storage

9400GSB0 Complete US Set 4

- Includes 9300GSO, 9000GS40 plus KRL756CPBO Roll Cab and KRL751FPBO Top Chest

9400GSO Tools Only US Set 4

- Includes 9300GSO and 9000GS40
- Does not include tool storage

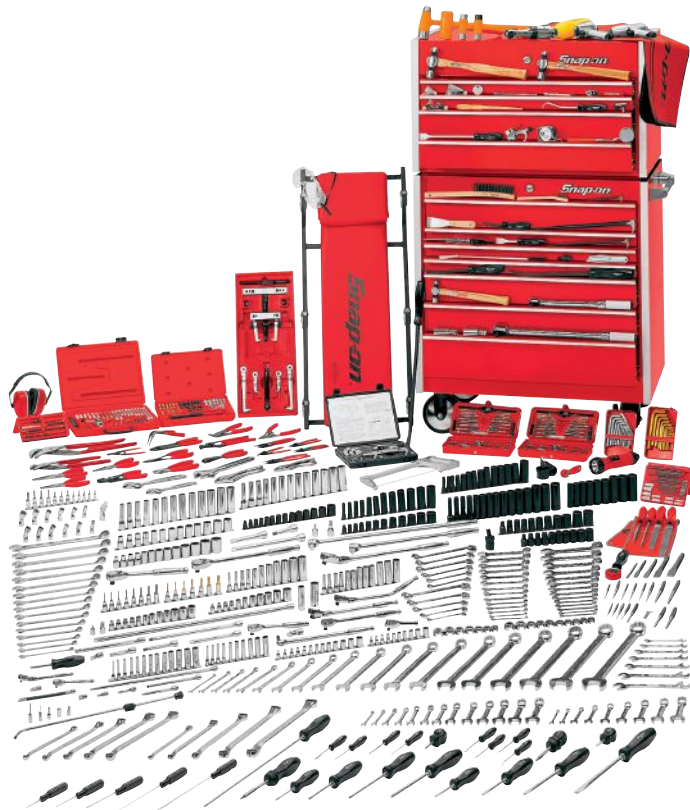


†These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1-P2 for details.  
 • Read Safety Precautions on pages W1-W4

US SET 5



9000GS50



9500GSB0

**9000GS50 Add-On Group 5**

- More than 150 pc
- Does not include tool storage

**9500GSB0 Complete US Set 5**

- Includes 9400GSO and 9000GS50, plus the KRL756CPBO Roll Cab and KRL751PBO Top Chest

**9500GSO Tools Only US Set 5**

- Includes 9400GSO and 9000GS50
- Does not include tool storage

US Set 5

Stock No.	Description	Page
650	6" Prybar	376
196ACF	8" Long Nose Pliers with Cutter	380
212IMFYA	12 pc 3/8" Drive 6-Point SAE Flank Drive® Shallow Impact Socket Set	176
212SIMFYA	12 pc 3/8" Drive 6-Point SAE Flank Drive® Deep Impact Socket Set	178
214IMFMYA	14 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow Impact Socket Set	176
214SIMFMYA	14 pc 3/8" Drive 6-Point Metric Flank Drive® Deep Impact Socket Set	178
313TSMYA	13 pc 1/2" Drive 6-Point Metric Flank Drive® Deep Socket Set	210
497ACF	7" 90° Angle Jaw Needle Nose Pliers	380
AWP120	12" Adjustable Joint Pliers	382
BP8B	8 oz Ball Peen Hammer Hickory Handle (Blue-Point®)	401
CJ2002	Gear Puller Set	443
F12LB	3/8" Drive 11-9/16" Long Handle Breaker Bar	148
FADH10B	10" Flank Drive® Plus Adjustable Wrench	305
FBF80A	3/8" Drive Dual 80° Technology Standard Handle Bent Flex-Head Ratchet	—
FK80	3/8" Drive Dual 80° Technology Stubby Handle Ratchet	144
HBBT24	24 oz Bronze Tip Hammer	399
IMM200	1/2" Drive 6-Point Metric 20 mm Flank Drive® Shallow Impact Socket	220
IMM210	1/2" Drive 6-Point Metric 21 mm Flank Drive® Shallow Impact Socket	220
IMM220	1/2" Drive 6-Point Metric 22 mm Flank Drive® Shallow Impact Socket	220
IMM230	1/2" Drive 6-Point Metric 23 mm Flank Drive® Shallow Impact Socket	220
IPF800B	3/8" Drive Friction Ball Swivel Ball Impact Universal Joint	175
MG325	3/8" Drive Air Impact Wrench	528
OEX8B	1/4" 12-Point SAE Flank Drive® Combination Wrench	274
OEX11B	11/32" 12-Point SAE Flank Drive® Combination Wrench	274
OEX38B	1-3/16" 12-Point SAE Flank Drive® Combination Wrench	274
OEX42B	1-5/16" 12-Point SAE Flank Drive® Combination Wrench	274
OEX260B	13/16" 12-Point SAE Flank Drive® Short Combination Wrench	277
OEX280B	7/8" 12-Point SAE Flank Drive® Short Combination Wrench	277
OEX300B	15/16" 12-Point SAE Flank Drive® Short Combination Wrench	277
OEX320B	1" 12-Point SAE Flank Drive® Short Combination Wrench	277
OEXM90B	9 mm 12-Point Metric Flank Drive® Combination Wrench	273
OEXM230B	23 mm 12-Point Metric Flank Drive® Combination Wrench	273
OEXM240B	24 mm 12-Point Metric Flank Drive® Combination Wrench	273
OXI8B	1/4" 12-Point SAE Flank Drive® Midget Combination Wrench	278
OXI10B	5/16" 12-Point SAE Flank Drive® Midget Combination Wrench	278

Stock No.	Description	Page
OXI12B	3/8" 12-Point SAE Flank Drive® Midget Combination Wrench	278
OXI706B	6 pc 12-Point SAE Flank Drive® Midget Combination Wrench Set	278
OXIM7B	7 mm 12-Point Metric Flank Drive® Midget Combination Wrench	277
OXIM8B	8 mm 12-Point Metric Flank Drive® Midget Combination Wrench	277
OXIM9B	9 mm 12-Point Metric Flank Drive® Midget Combination Wrench	277
OXIM710B	10 pc 12-Point Metric Flank Drive® Midget Combination Wrench Set	277
PPC110A	5-1/4" Pin Punch	395
PPC210A	7-1/4" Starter Punch	395
PPC824B	7-1/4" Flat Chisel	395
PPC828B	8" Flat Chisel	395
PT28E†	Pick-Up Tool (Blue-Point®)	776
PTR7Z	3/8" Drive Super-Duty Air Ratchet	530
PWC14†	Wire Stripper/Cutter/Crimper/Bolt Cutter (Blue-Point®)	388
QD2R100A	3/8" Drive SAE Adjustable Click-Type Fixed Ratchet Torque Wrench (20–100 ft-lb)	314
RTD48†	48 pc Master Rethreading Tap and Die Set	423
S9704KFUA	3/8" Drive 6-Point SAE 13/16" Flank Drive® Universal Spark Plug Socket	420
S9706KRFUA	3/8" Drive 6-Point SAE 5/8" Flank Drive® Universal Retention Spark Plug Socket	421
SDM400A	Master SAE Screwdriver Bit Set	360
SF80A	1/2" Drive Dual 80° Technology Standard Handle Flex-Head Ratchet	201
SGDE43ESD	Flat Tip 1/8" Electronic Thin Blade Screwdriver	347
SGDE44ESD	Flat Tip 1/8" Electronic Thin Blade Screwdriver	347
SGDE46ESD	Flat Tip 1/8" Electronic Thin Blade Screwdriver	347
SHDP62IRR	PHILLIPS® #2 Instinct® Hard Grip Standard Screwdriver	346
SHDP63IRR	PHILLIPS® #3 Instinct® Hard Grip Screwdriver	346
SHDP162R	PHILLIPS® #2 Instinct® Hard Grip Cabinet Screwdriver	346
SIMM200	1/2" Drive 6-Point Metric 20 mm Flank Drive® Deep Impact Socket	222
SIMM210	1/2" Drive 6-Point Metric 21 mm Flank Drive® Deep Impact Socket	222
SIMM220	1/2" Drive 6-Point Metric 22 mm Flank Drive® Deep Impact Socket	222
SIMM230	1/2" Drive 6-Point Metric 23 mm Flank Drive® Deep Impact Socket	222
SIMM240	1/2" Drive 6-Point Metric 24 mm Flank Drive® Deep Impact Socket	222
SPBS12AO	12" Striking Prybar	374
SSDMR1AO	4-5/16" Ratcheting Magnetic Stubby Screwdriver	356
TC123C‡	Tubing Cutter (Blue-Point®)	—
VS807B	7 pc SAE Four-Way Angle Head Open-End Wrench Set	286
XB605A	5 pc 12-Point SAE Flank Drive® 10° Offset Box Wrench Set	280
XBM605A	5 pc 12-Point Metric Flank Drive® 10° Offset Box Wrench Set	279



‡These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.  
 • Read Safety Precautions on pages W1–W4

US SET 6



9000GS60



9600GSB0

**9000GS60 Add-On Group 6**

- More than 250 pc
- Does not include tool storage

**9600GSB0 Complete US Set 6**

- Includes 9500GSO and 900GS60, plus tool storage

**9600GSO Tools Only US Set 6**

- Includes 9500GSO and 9000GS60, includes wall cabinet assembly
- Does not include tool storage

US Set 6

Stock No.	Description	Page
2050	20" Prybar	376
106ATMXWP	6 pc 1/4" Drive Wobble Plus Extension Set	109
106TMUSA	6 pc 1/4" Drive 6-Point SAE Flank Drive® Shallow Universal Socket Set	116
10SSD	Flat Tip 90° Offset Screwdriver (Blue-Point®)	351
110ETMAY	10 pc 1/4" Drive SAE Hex Driver Bit Socket Set	124
120SSDP	PHILLIPS® 90° Offset Screwdriver (Blue-Point®)	351
2051PF	5 pc 3/8" Drive 6-Point SAE Flank Drive® Shallow Impact Swivel Socket Set	179
206AFXWP	6 pc 3/8" Drive Wobble Plus Extension Set	150
20SSD	Flat Tip 90° Offset Screwdriver (Blue-Point®)	351
3071PLY	7 pc 1/2" Drive 6-Point SAE Flank Drive® Shallow Impact Swivel Socket Set	226
A265A	Socket Rail with 1/4" Clips	562
A271BB	Socket Clip	—
AWP45	5" Adjustable Joint Pliers	382
AWP65	7" Adjustable Joint Pliers	382
BP12B	12 oz Ball Peen Hammer Hickory Handle (Blue-Point®)	401
CHN480	20" Adjustable Joint Pliers (Blue-Point®)	382
CJ2003A	Rear Axle Puller Set	—
CJ2004	Interchangeable Puller Set	—
CJ2005	Master Interchangeable Puller Set	—
CM6551A†	5 pc Miniature Screwdriver Set	353
DBTR129†	29 pc High-Speed Mechanic's Length 135° Point with Three-Flat Shank Drill Bit Set	555
FADH6C	6" Flank Drive® Plus Adjustable Wrench	305
FS12B	3/8" Drive 6-Point SAE 3/8" Flank Drive® Shallow Universal Socket	159
FSUM11A	3/8" Drive 6-Point Metric 11 mm Flank Drive® Shallow Universal Socket	159
FSUM16A	3/8" Drive 6-Point Metric 16 mm Flank Drive® Shallow Universal Socket	159
FSUM18A	3/8" Drive 6-Point Metric 18 mm Flank Drive® Shallow Universal Socket	159
FSUM19A	3/8" Drive 6-Point Metric 19 mm Flank Drive® Shallow Universal Socket	159
FX18	3/8" Drive 18" Friction Ball Extension	149
FX36	3/8" Drive 36" Friction Ball Extension	149
HBFE48	48 oz Soft Grip Dead Blow Hammer	398
IMTM8A	1/4" Drive 6-Point SAE 1/4" Flank Drive® Shallow Impact Socket	126
IMTM10A	1/4" Drive 6-Point SAE 5/16" Flank Drive® Shallow Impact Socket	126
IMTM12A	1/4" Drive 6-Point SAE 3/8" Flank Drive® Shallow Impact Socket	126
IMTM14A	1/4" Drive 6-Point SAE 7/16" Flank Drive® Shallow Impact Socket	126
IMTM16A	1/4" Drive 6-Point SAE 1/2" Flank Drive® Shallow Impact Socket	126
IMTM18A	1/4" Drive 6-Point SAE 9/16" Flank Drive® Shallow Impact Socket	126
IMTMM5	1/4" Drive 6-Point Metric 5 mm Flank Drive® Shallow Impact Socket	126
IMTMM5.5	1/4" Drive 6-Point Metric 5.5 mm Flank Drive® Shallow Impact Socket	126
IMTMM6	1/4" Drive 6-Point Metric 6 mm Flank Drive® Shallow Impact Socket	126
IMTMM7	1/4" Drive 6-Point Metric 7 mm Flank Drive® Shallow Impact Socket	126
IMTMM8	1/4" Drive 6-Point Metric 8 mm Flank Drive® Shallow Impact Socket	126
IMTMM9	1/4" Drive 6-Point Metric 9 mm Flank Drive® Shallow Impact Socket	126
IMTMM10	1/4" Drive 6-Point Metric 10 mm Flank Drive® Shallow Impact Socket	126
IMTMM11	1/4" Drive 6-Point Metric 11 mm Flank Drive® Shallow Impact Socket	126
IMTMM12	1/4" Drive 6-Point Metric 12 mm Flank Drive® Shallow Impact Socket	126

Stock No.	Description	Page
IMTMM13	1/4" Drive 6-Point Metric 13 mm Flank Drive® Shallow Impact Socket	126
IMTMM14	1/4" Drive 6-Point Metric 14 mm Flank Drive® Shallow Impact Socket	126
IMTMM15	1/4" Drive 6-Point Metric 15 mm Flank Drive® Shallow Impact Socket	126
LP6LN	Long Nose Locking Pliers	383
NDD900B	9 pc SAE Nut Driver Set (3/16–1/2")	359
OEX44B	1-3/8" 12-Point SAE Flank Drive® Combination Wrench	274
OEX46B	1-7/16" 12-Point SAE Flank Drive® Combination Wrench	274
OEX48B	1-1/2" 12-Point SAE Flank Drive® Combination Wrench	274
P87150A	P-Series Cutting Pliers	379
P91355A	5-1/2" 45° Bent Needle Nose Pliers	379
P92055A	5-1/2" Needle Nose Pliers	379
PDR3000A	3/8" Capacity Reversible Drill	533
PL307ACF	3 pc Pliers Set	377
PPR708BK	8 pc Roll Pin Punch Set	397
R810C†	SAE 1/4–5/16" 12-Point SAE 0° Offset Ratcheting Box Wrench	267
RB604C	4 pc 12-Point SAE 0° Offset Ratcheting Box Wrench Set	267
RXS605B	5 pc 6-Point SAE Open-End/Flare Nut Wrench Set	288
SGFMN106	6 pc Soft Grip Handle Miniature File Set	411
SHDTX315R	TORX® T15 Instinct® Hard Grip Standard Screwdriver	351
SHDTX320R	TORX® T20 Instinct® Hard Grip Standard Screwdriver	351
SSDMR8AO	12-15/16" Ratcheting Magnetic Long Screwdriver	356
SX15	1/2" Drive 15" Extension	204
TS381	1/2" Drive 6-Point SAE 1-3/16" Flank Drive® Deep Socket	209
TS401	1/2" Drive 6-Point SAE 1-1/4" Flank Drive® Deep Socket	209
TS421	1/2" Drive 6-Point SAE 1-5/16" Flank Drive® Deep Socket	209
TW381	1/2" Drive 6-Point SAE 1-3/16" Flank Drive® Shallow Socket	208
TW401	1/2" Drive 6-Point SAE 1-1/4" Flank Drive® Shallow Socket	208
TW421	1/2" Drive 6-Point SAE 1-5/16" Flank Drive® Shallow Socket	208
TW441	1/2" Drive 6-Point SAE 1-3/8" Flank Drive® Shallow Socket	208
TW461	1/2" Drive 6-Point SAE 1-7/16" Flank Drive® Shallow Socket	208
TW481	1/2" Drive 6-Point SAE 1-1/2" Flank Drive® Shallow Socket	208
TWM25	1/2" Drive 6-Point Metric 25 mm Flank Drive® Shallow Socket	208
TWM26	1/2" Drive 6-Point Metric 26 mm Flank Drive® Shallow Socket	208
TWM27	1/2" Drive 6-Point Metric 27 mm Flank Drive® Shallow Socket	208
TWM30	1/2" Drive 6-Point Metric 30 mm Flank Drive® Shallow Socket	208
TWM32	1/2" Drive 6-Point Metric 32 mm Flank Drive® Shallow Socket	208
VE200A	Tool Control Board (Blue-Point®)	—
VS26B	13/16" SAE Four-Way Angle Head Open-End Wrench	286
VS28B	7/8" SAE Four-Way Angle Head Open-End Wrench	286
VS30B	15/16" SAE Four-Way Angle Head Open-End Wrench	286
VS32B	1" SAE Four-Way Angle Head Open-End Wrench	286
XO605	5 pc 12-Point SAE Flank Drive® 60° Deep Offset Box Wrench Set	281



†These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.  
 • Read Safety Precautions on pages W1–W4

# METRIC SETS A



**9100AGMO**

## Metric Sets A

Stock No.	Description	Page
1650	16" Prybar	376
112STMMY	12 pc 1/4" Drive 6-Point Metric Flank Drive® Deep Socket Set	113
117TMM	17 pc 1/4" Drive 6-Point Metric Starter Set	130
2004BSKA	4 pc Battery Service Kit	701
206EAU	6 pc 3/8" Drive Adaptor/Extension Set	151
212EFTXY	12 pc Combination Drive TORX® Bit Standard Socket Set	120
212FSMY	12 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow Socket Set	155
212SFSMY	12 pc 3/8" Drive 6-Point Metric Flank Drive® Deep Socket Set	156
317AMMPC	17 pc 1/2" Drive 6-Point Metric General Service Socket Set	232
91ACP	9" Adjustable Joint Interlocking Channel Pliers	382
97ACF	9" Needle Nose Pliers	380
AC5C	Hand Scratch Brush (Blue-Point®)	812
AWM110DHK	11 pc Metric L-Shaped Hex Wrench Set	303
BP16B	16 oz Ball Peen Hickory Handle Hammer (Blue-Point®)	401
CSA8C	Rigid Carbon Scraper	413
ENC09602001	Veratti® M50	—
F80	3/8" Drive Dual 80° Technology Standard Handle Ratchet	144
FADH12C	12" Flank Drive® Plus Adjustable Wrench	305
FB316B†	Feeler Gauge Set (Blue-Point®)	770
FB360C‡	Gap for Electronic Ignition Systems Gauge (Blue-Point®)	772
FB361A†	Gapper Gauge (Blue-Point®)	772
FLF80A	3/8" Drive Dual 80° Technology Long Handle Flex-Head Ratchet	145
FBM320†	Feeler Gauge (Blue-Point®)	771

### 9100AGMO Metric Basic Set A

- Tools only
- Includes a basic selection of ratchets, sockets, wrenches, screwdrivers, pliers and accessories
- Does not include tool storage

Stock No.	Description	Page
FXK11	3/8" Drive 11" Knurled Friction Ball Extension	149
GA295†	2-1/4" Round Mirror with 14" Shaft (Blue-Point®)	777
GSAF1F	1/2" Drive Square Drive Adaptor	205
HBPT16	16 oz Plastic Tip Hammer	400
HSG319	Bi-Mold Soft Grip Handle Hacksaw	403
LP10WR	Curved Jaw with Cutter Locking Pliers	383
MAGST2D016	2D Cell LED Maglite® Flashlight	—
OEXM710B	10 pc 12-Point Metric Flank Drive® Combination Wrench Set	273
PK53A	Single Bevel Putty Knife/Scraper (Blue-Point®)	414
PL307ACF	3 pc Pliers Set	377
PPC710BK	11 pc Punch and Chisel Set	395
PRH57A	Convertible Retaining Ring Pliers (Blue-Point®)	385
PT5C†	Telescopic Magnetic Pick-Up Tool (Blue-Point®)	776
PWC6†	Wire Stripper/Cutter (Blue-Point®)	388
RXFMS606B	6 pc 6-Point Metric Flank Drive® Double End Flare Nut Wrench Set	288
S9704KA	3/8" Drive 6-Point SAE 13/16" Flank Drive® Shallow Spark Plug Socket	422
S9706KRA	3/8" Drive 6-Point SAE 5/8" Flank Drive® Standard Retention Spark Plug Socket	421
SGA173BR	Soft Grip Radiator Hose Pick	722
SGASA204CO	4 pc Instinct® Soft Grip Miniature Pick Set	370
SGT4BR	1/4" Drive 6-13/16" Instinct® Soft Grip Standard Shank Driver	107
SHDX800	8 pc Instinct® Hard Grip Combination Screwdriver Set	343
SSDMR4B0	8-3/4" Ratcheting Standard Screwdriver	356
TMXK60	1/4" Drive 6" Knurled Extension	108
TPMA25EM	25' Tape Rule	775

### 9100GMB0 Complete Metric Set A

- More than 150 pc
- Includes 9100AGMO, plus KRA4059FPBO Top Chest



**9000GM20**



**9200GMBO**

**Metric Sets B**

Stock No.	Description	Page
1250	12" Prybar	376
206FSUMA	6 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow Flex Socket Set	159
207EFAMY	7 pc 3/8" Drive Metric Hex Bit Socket Set	170
210FRHMA	10 pc 3/8" Drive 6-Point Metric Flank Drive® Flare Nut Crowfoot Wrench Set	291
310IMMYA	10 pc 1/2" Drive 6-Point Metric Flank Drive® Shallow Impact Socket Set	220
310SIMMYA	10 pc 1/2" Drive 6-Point Metric Flank Drive® Deep Impact Socket Set	222
313TSMYA	13 pc 1/2" Drive 6-Point Metric Flank Drive® Deep Socket Set	210
388ACF	8" High-Leverage Diagonal Cutter	378
61CF	8" Duck Bill Pliers	381
AC58E	Wire Brush (Blue-Point®)	381
AWP160	16" Adjustable Joint Pliers	812
BP24B	24 oz Ball Peen Hickory Hammer (Blue-Point®)	382
CJ2001P	Bolt Grip Puller Set	401
CSA12CO	12-7/8" Rigid Carbon Scraper	—
E1020	19 pc Extractor Set (Blue-Point®)	413
FADH8B	8" Flank Drive® Plus Adjustable Wrench	427
FL80	3/8" Drive Dual 80° Technology Long Handle Ratchet	144
FX24A	3/8" Drive 24" Friction Ball Extension	149
FXX4	3/8" Drive 4" Knurled Friction Ball Extension	149
FXX8	3/8" Drive 8" Knurled Friction Ball Extension	149
HBFE32	32 oz Soft Grip Dead Blow Hammer	398
IP80D	1/2" Drive Swivel Ball Lock Button Impact Universal Joint	219
JT13B	Blow Gun (Blue-Point®)	573
LP7WR	7" Curved Jaw with Cutter Locking Pliers	383
OEXM6B	6 mm 12-Point Metric Flank Drive® Short Combination Wrench	276
OEXM7B	7 mm 12-Point Metric Flank Drive® Short Combination Wrench	276
OEXM8B	8 mm 12-Point Metric Flank Drive® Short Combination Wrench	276

Stock No.	Description	Page
OEXM9B	9 mm 12-Point Metric Flank Drive® Short Combination Wrench	276
OEXM200B	20 mm 12-Point Metric Flank Drive® Combination Wrench	273
OEXM210B	21 mm 12-Point Metric Flank Drive® Combination Wrench	273
OEXM220B	22 mm 12-Point Metric Flank Drive® Combination Wrench	273
OEXSM710B	10 pc 12-Point Metric Flank Drive® Short Combination Wrench Set	276
PPC3A	Center Punch	395
PPC104A	Pin Punch	395
PPC108A	5-3/4" Pin Punch	395
PPC204A	5-3/4" Starter Punch	395
PPC208A	6-3/4" Starter Punch	395
PT850	1/2" Drive Air Impact Wrench	525
QD3RM30A	1/2" Drive Metric Adjustable Click-Type Fixed Ratchet Torque Wrench (6–30 kg•m)	314
S8	1/2" Drive 2-11/16" Friction Ball Universal Joint	206
SGCP1BR	Soft Grip Cotter Pin Puller	675
SGHBF500A	4 pc Instinct® Mixed File Set	410
SL80A	1/2" Drive Dual 80° Technology Long Handle Ratchet	201
SN24C	1/2" Drive 24" Standard Handle Breaker Bar	203
SPBS24AO	24" Striking Prybar	374
SRPCR105	5 pc Snap Ring Pliers Set	384
SXK3	1/2" Drive 3-1/2" Extension	204
TA3	1/4" Drive Square Drive Adaptor	109
TC28C <sup>‡</sup>	Tubing Cutter (Blue-Point®)	—
TF72	1/4" Drive Dual 80° Technology Standard Handle Flex-Head Ratchet	104
TFM428 <sup>‡</sup>	Metric Bubble Flaring Set (Blue-Point®)	417
TMX1	1/4" Drive 1-1/4" Extension	108
TMXK140	1/4" Drive 14" Knurled Extension	108
UTK100	Retractable Utility Knife	409

**9000GM20 Add-On Group B**

- More than 200 pc
- Does not include tool storage

**9200GMBO Complete Metric Set B**

- Includes 9100AGMO and 9000GM20, plus KRA4059FPBO Top Chest and KRA4008FPBO Roll Cab

**9200GMO Tools Only Metric Set B**

- More than 400 pc
- Does not include tool storage



<sup>‡</sup>These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.  
• Read Safety Precautions on pages W1–W4

METRIC SETS C



9000GM30



9300GMBO

**9000GM30 Add On Metric Set C**

- More than 200 pc
- Tools only
- Does not include tool storage

**9300GMBO Complete Metric Set C**

- Includes 9200GMO and 9000GM30, plus KRL751PBO Top Chest and KRL756APBO Roll Cab

**9300GMO Tools Only Metric Set C**

- More than 600 pc
- Includes all tools in 9200GMO and 9000GM30
- Does not include tool storage

**Metric Sets C**

Stock No.	Description	Page
<b>650</b>	6" Prybar	376
<b>106ATMXWP</b>	6 pc 1/4" Drive Wobble Plus Extension Set	109
<b>196ACF</b>	8" Long Nose Pliers with Cutter	380
<b>206AFXWP</b>	6 pc 3/8" Drive Wobble Plus Extension Set	150
<b>214IMFMYA</b>	14 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow Impact Socket Set	176
<b>214SIMFMYA</b>	14 pc 3/8" Drive 6-Point Metric Flank Drive® Deep Impact Socket Set	178
<b>497ACF</b>	7" 90° Angle Jaw Needle Nose Pliers	380
<b>AWP120</b>	12" Adjustable Joint Pliers	382
<b>BP8B</b>	8 oz Ball Peen Hammer Hickory Handle (Blue-Point®)	401
<b>CJ2002</b>	Gear Puller Set	443
<b>F12LB</b>	3/8" Drive 11-9/16" Long Handle Breaker Bar	148
<b>FADH10B</b>	10" Flank Drive® Plus Adjustable Wrench	305
<b>FBF80A</b>	3/8" Drive Dual 80° Technology Standard Handle Bent Flex-Head Ratchet	—
<b>FK80</b>	3/8" Drive Dual 80° Technology Stubby Handle Ratchet	144
<b>HBBD32</b>	32 oz Ball Peen Soft Grip Dead Blow Hammer	399
<b>HBBT24</b>	24 oz Bronze Tip Hammer	399
<b>IMM200</b>	1/2" Drive 6-Point Metric 20 mm Flank Drive® Shallow Impact Socket	220
<b>IMM210</b>	1/2" Drive 6-Point Metric 21 mm Flank Drive® Shallow Impact Socket	220
<b>IMM220</b>	1/2" Drive 6-Point Metric 22 mm Flank Drive® Shallow Impact Socket	220
<b>IMM230</b>	1/2" Drive 6-Point Metric 23 mm Flank Drive® Shallow Impact Socket	220
<b>IMM240</b>	1/2" Drive 6-Point Metric 24 mm Flank Drive® Shallow Impact Socket	220
<b>IPF800B</b>	3/8" Drive Friction Ball Swivel Ball Impact Universal Joint	175
<b>IPFM9C</b>	3/8" Drive 6-Point Metric 9 mm Flank Drive® Shallow Swivel Impact Socket	179
<b>IPFM10C</b>	3/8" Drive 6-Point Metric 10 mm Flank Drive® Shallow Swivel Impact Socket	179
<b>IPFM12C</b>	3/8" Drive 6-Point Metric 12 mm Flank Drive® Shallow Swivel Impact Socket	179
<b>IPFM13C</b>	3/8" Drive 6-Point Metric 13 mm Flank Drive® Shallow Swivel Impact Socket	179
<b>IPFM14C</b>	3/8" Drive 6-Point Metric 14 mm Flank Drive® Shallow Swivel Impact Socket	179
<b>IPFM15C</b>	3/8" Drive 6-Point Metric 15 mm Flank Drive® Shallow Swivel Impact Socket	179
<b>IPFM16C</b>	3/8" Drive 6-Point Metric 16 mm Flank Drive® Shallow Swivel Impact Socket	179
<b>IPFM17C</b>	3/8" Drive 6-Point Metric 17 mm Flank Drive® Shallow Swivel Impact Socket	179
<b>IPFM18C</b>	3/8" Drive 6-Point Metric 18 mm Flank Drive® Shallow Swivel Impact Socket	179
<b>IPFM19C</b>	3/8" Drive 6-Point Metric 19 mm Flank Drive® Shallow Swivel Impact Socket	179
<b>JCW62R</b>	Standard Creeper	762
<b>MG325</b>	3/8" Drive Air Impact Wrench	528
<b>OEXM90B</b>	9 mm 12-Point Metric Flank Drive® Combination Wrench	273
<b>OEXM230B</b>	23 mm 12-Point Metric Flank Drive® Combination Wrench	273
<b>OEXM240B</b>	24 mm 12-Point Metric Flank Drive® Combination Wrench	273
<b>OEXM270B</b>	27 mm 12-Point Metric Flank Drive® Combination Wrench	273
<b>OEXM300B</b>	30 mm 12-Point Metric Flank Drive® Combination Wrench	273
<b>OXIM7B</b>	7 mm 12-Point Metric Flank Drive® Midget Combination Wrench	277

Stock No.	Description	Page
<b>OXIM8B</b>	8 mm 12-Point Metric Flank Drive® Midget Combination Wrench	277
<b>OXIM9B</b>	9 mm 12-Point Metric Flank Drive® Midget Combination Wrench	277
<b>OXIM710B</b>	10 pc 12-Point Metric Flank Drive® Midget Combination Wrench Set	277
<b>PPB1012A</b>	Bronze Tapered Punch	397
<b>PPC110A</b>	5-1/4" Pin Punch	395
<b>PPC112</b>	5-1/4" Pin Punch	395
<b>PPC210A</b>	7-1/4" Starter Punch	395
<b>PPC5A</b>	6-15/16" Punch/Chisel Holder	395
<b>PPC824B</b>	7-1/4" Flat Chisel	395
<b>PPC828B</b>	8" Flat Chisel	395
<b>PT28E<sup>†</sup></b>	Pick-Up Tool (Blue-Point®)	776
<b>PTR72</b>	3/8" Drive Super-Duty Air Ratchet	530
<b>PWC14<sup>†</sup></b>	Wire Stripper/Cutter/Crimper/Bolt Cutter (Blue-Point®)	388
<b>QD2RM1000A</b>	3/8" Drive Metric Adjustable Click-Type Fixed Ratchet Torque Wrench (200–1,000 kg•cm)	314
<b>RTD48<sup>†</sup></b>	48 pc Master Rethreading Tap and Die Set	423
<b>S9704KFUA</b>	3/8" Drive 6-Point SAE 13/16" Flank Drive® Universal Spark Plug Socket	420
<b>S9706KRFUA</b>	3/8" Drive 6-Point SAE 5/8" Flank Drive® Universal Retention Spark Plug Socket	421
<b>SDM400A</b>	Master SAE Screwdriver Bit Set	360
<b>SF80A</b>	1/2" Drive Dual 80° Technology Standard Handle Flex-Head Ratchet	201
<b>SGD304BR</b>	Flat Tip Instinct® Soft Grip Mini-Tip Screwdriver	344
<b>SGDE44ESD</b>	Flat Tip 1/8" Electronic Thin Blade Screwdriver	347
<b>SGDE66ESD</b>	Flat Tip 3/16" Electronic Thin Blade Screwdriver	347
<b>SGDE68ESD</b>	Flat Tip 3/16" Electronic Thin Blade Screwdriver	347
<b>SHDP162R</b>	PHILLIPS® #2 Instinct® Hard Grip Cabinet Screwdriver	346
<b>SHDP62IRR</b>	PHILLIPS® #2 Instinct® Hard Grip Standard Screwdriver	346
<b>SHDP63IRR</b>	PHILLIPS® #3 Instinct® Hard Grip Screwdriver	346
<b>SIMM200</b>	1/2" Drive 6-Point Metric 20 mm Flank Drive® Deep Impact Socket	222
<b>SIMM210</b>	1/2" Drive 6-Point Metric 21 mm Flank Drive® Deep Impact Socket	222
<b>SIMM220</b>	1/2" Drive 6-Point Metric 22 mm Flank Drive® Deep Impact Socket	222
<b>SIMM230</b>	1/2" Drive 6-Point Metric 23 mm Flank Drive® Deep Impact Socket	222
<b>SIMM240</b>	1/2" Drive 6-Point Metric 24 mm Flank Drive® Deep Impact Socket	222
<b>SPBS12A0</b>	12" Striking Prybar	374
<b>SSDMR1A0</b>	4-5/16" Ratcheting Magnetic Stubby Screwdriver	356
<b>SX2</b>	1/2" Drive 2" Extension	204
<b>TC123C<sup>†</sup></b>	Tubing Cutter (Blue-Point®)	—
<b>TM61A</b>	1/4" Drive 6" Flexible Extension	109
<b>TMXK110</b>	1/4" Drive 11" Knurled Extension	108
<b>TWM25</b>	1/2" Drive 6-Point Metric 25 mm Flank Drive® Shallow Socket	208
<b>TWM26</b>	1/2" Drive 6-Point Metric 26 mm Flank Drive® Shallow Socket	208
<b>TWM27</b>	1/2" Drive 6-Point Metric 27 mm Flank Drive® Shallow Socket	208
<b>TWM30</b>	1/2" Drive 6-Point Metric 30 mm Flank Drive® Shallow Socket	208
<b>VSM807B</b>	7 pc Metric 30°/60° Four-Way Angle Open-End Wrench Set	286
<b>XBM605A</b>	5 pc 12-Point Metric Flank Drive® 10° Offset Box Wrench Set	279
<b>XOM605</b>	5 pc 12-Point Metric Flank Drive® 60° Deep Offset Box Wrench Set	281



†These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.  
• Read Safety Precautions on pages W1–W4

**METRIC SETS D**



9000GM40

**9000GM40 Add-On Group D**

- More than 175 pc
- Does not include tool storage

**9400GMBO Complete Metric Set D**

- Includes 9300GMO and 9000GM40, plus KRL751PBO Top Chest, KRL756CPBO Roll Cab and KRA276D Wall Cabinet

**9400GMO Tools Only Metric Set D**

- More than 800 pc
- Includes all tools in 9300GMO and 9000GM40
- Does not include tool storage

**Metric Sets D**

Stock No.	Description	Page
<b>2050</b>	20" Prybar	376
<b>106ETMAMY</b>	6 pc 1/4" Drive Metric Standard Hex Bit Socket Set	122
<b>10SSD</b>	Flat Tip 90° Offset Screwdriver (Blue-Point®)	351
<b>111TMUSMA</b>	11 pc 1/4" Drive 6-Point Metric Flank Drive® Shallow Universal Socket Set	116
<b>120SSDP</b>	PHILLIPS® 90° Offset Screwdriver (Blue-Point®)	351
<b>20SSD</b>	Flat Tip 90° Offset Screwdriver (Blue-Point®)	351
<b>307IPLMY</b>	7 pc 1/2" Drive 6-Point Metric Flank Drive® Shallow Impact Swivel Socket Set	225
<b>AWP65</b>	7" Adjustable Joint Pliers	382
<b>BP12B</b>	12 oz Ball Peen Hammer Hickory Handle (Blue-Point®)	401
<b>CHN480</b>	20" Adjustable Joint Pliers (Blue-Point®)	382
<b>CJ2003A</b>	Rear Axle Puller Set	—
<b>CJ2004</b>	Interchangeable Puller Set	—
<b>CJ2005</b>	Master Interchangeable Puller Set	—
<b>CM6551A†</b>	5 pc Miniature Screwdriver Set	353
<b>DBTR129†</b>	29 pc High-Speed Mechanic's Length 135° Point with Three-Flat Shank Drill Bit Set	555
<b>FADH6C</b>	6" Flank Drive® Plus Adjustable Wrench	305
<b>FSM61</b>	3/8" Drive 6-Point Metric 6 mm Flank Drive® Shallow Socket	155
<b>FSM71</b>	3/8" Drive 6-Point Metric 7 mm Flank Drive® Shallow Socket	155
<b>FSUM11A</b>	3/8" Drive 6-Point Metric 11 mm Flank Drive® Shallow Universal Socket	159
<b>FSUM16A</b>	3/8" Drive 6-Point Metric 16 mm Flank Drive® Shallow Universal Socket	159
<b>FSUM18A</b>	3/8" Drive 6-Point Metric 18 mm Flank Drive® Shallow Universal Socket	159
<b>FSUM19A</b>	3/8" Drive 6-Point Metric 19 mm Flank Drive® Shallow Universal Socket	159
<b>FX18</b>	3/8" Drive 18" Friction Ball Extension	149
<b>FX36</b>	3/8" Drive 36" Friction Ball Extension	149
<b>HBFE48</b>	48 oz Soft Grip Dead Blow Hammer	398
<b>IMTMM5</b>	1/4" Drive 6-Point Metric 5 mm Flank Drive® Shallow Impact Socket	126
<b>IMTMM5.5</b>	1/4" Drive 6-Point Metric 5.5 mm Flank Drive® Shallow Impact Socket	126
<b>IMTMM6</b>	1/4" Drive 6-Point Metric 6 mm Flank Drive® Shallow Impact Socket	126
<b>IMTMM7</b>	1/4" Drive 6-Point Metric 7 mm Flank Drive® Shallow Impact Socket	126
<b>IMTMM8</b>	1/4" Drive 6-Point Metric 8 mm Flank Drive® Shallow Impact Socket	126
<b>IMTMM9</b>	1/4" Drive 6-Point Metric 9 mm Flank Drive® Shallow Impact Socket	126
<b>IMTMM10</b>	1/4" Drive 6-Point Metric 10 mm Flank Drive® Shallow Impact Socket	126
<b>IMTMM11</b>	1/4" Drive 6-Point Metric 11 mm Flank Drive® Shallow Impact Socket	126
<b>IMTMM12</b>	1/4" Drive 6-Point Metric 12 mm Flank Drive® Shallow Impact Socket	126
<b>IMTMM13</b>	1/4" Drive 6-Point Metric 13 mm Flank Drive® Shallow Impact Socket	126
<b>IMTMM14</b>	1/4" Drive 6-Point Metric 14 mm Flank Drive® Shallow Impact Socket	126
<b>IMTMM15</b>	1/4" Drive 6-Point Metric 15 mm Flank Drive® Shallow Impact Socket	126
<b>LP5WR</b>	Curved Jaw with Cutter Locking Pliers	383

Stock No.	Description	Page
<b>LP6LN</b>	Long Nose Locking Pliers	383
<b>NDDM900A</b>	9 pc Metric Hard Grip Nut Driver Set (5–13 mm)	359
<b>OEXM250B</b>	25 mm 12-Point Metric Flank Drive® Combination Wrench	273
<b>OEXM260B</b>	26 mm 12-Point Metric Flank Drive® Combination Wrench	273
<b>OEXM290B</b>	29 mm 12-Point Metric Flank Drive® Combination Wrench	273
<b>OEXM320B</b>	32 mm 12-Point Metric Flank Drive® Combination Wrench	273
<b>P87150A</b>	P-Series Cutting Pliers	379
<b>P91355A</b>	5-1/2" 45° Bent Needle Nose Pliers	379
<b>PDR3000A</b>	3/8" Capacity Reversible Drill	533
<b>PPR708BK</b>	8 pc Roll Pin Punch Set	397
<b>RBM1011C†</b>	10–11 mm 12-Point Metric 0° Offset Ratcheting Box Wrench	267
<b>RBM1213C†</b>	12–13 mm 12-Point Metric 0° Offset Ratcheting Box Wrench	267
<b>RBM1415C†</b>	14–15 mm 12-Point Metric 0° Offset Ratcheting Box Wrench	267
<b>RBM1719C†</b>	17–19 mm 12-Point Metric 0° Offset Ratcheting Box Wrench	267
<b>RXSM605B</b>	5 pc 6-Point Metric Open-End/Flare Nut Wrench Set	288
<b>SFSM6</b>	3/8" Drive 6-Point Metric 6 mm Flank Drive® Deep Socket	156
<b>SFSM7</b>	3/8" Drive 6-Point Metric 7 mm Flank Drive® Deep Socket	156
<b>SGFMN106</b>	6 pc Soft Grip Handle Miniature File Set	411
<b>SHDXTX315R</b>	TORX® T15 Instinct® Hard Grip Standard Screwdriver	351
<b>SHDXTX320R</b>	TORX® T20 Instinct® Hard Grip Standard Screwdriver	351
<b>SPBS8AO</b>	8" Striking Prybar	374
<b>SSDMR8AO</b>	12-15/16" Ratcheting Magnetic Long Screwdriver	356
<b>STMM4.5</b>	1/4" Drive 6-Point Metric 4.5 mm Deep Socket	111
<b>SX15</b>	1/2" Drive 15" Extension	204
<b>TMM4.5</b>	1/4" Drive 6-Point Metric 4.5 mm Flank Drive® Shallow Socket	112
<b>TSM26</b>	1/2" Drive 6-Point Metric 26 mm Flank Drive® Deep Socket	210
<b>TSM27</b>	1/2" Drive 6-Point Metric 27 mm Flank Drive® Deep Socket	210
<b>TSM30</b>	1/2" Drive 6-Point Metric 30 mm Flank Drive® Deep Socket	210
<b>TSM32</b>	1/2" Drive 6-Point Metric 32 mm Flank Drive® Deep Socket	210
<b>TWM10A</b>	1/2" Drive 6-Point Metric 10 mm Flank Drive® Shallow Socket	208
<b>TWM11A</b>	1/2" Drive 6-Point Metric 11 mm Flank Drive® Shallow Socket	208
<b>TWM28</b>	1/2" Drive 6-Point Metric 28 mm Flank Drive® Shallow Socket	208
<b>TWM29</b>	1/2" Drive 6-Point Metric 29 mm Flank Drive® Shallow Socket	208
<b>TWM31</b>	1/2" Drive 6-Point Metric 31 mm Flank Drive® Shallow Socket	208
<b>TWM32</b>	1/2" Drive 6-Point Metric 32 mm Flank Drive® Shallow Socket	208
<b>VE200A</b>	Tool Control Board (Blue-Point®)	—



†These products can expose you to chemicals which are known to the state of California to cause cancer and reproductive harm. See pages P1–P2 for details.  
 • Read Safety Precautions on pages W1–W4

## SB1CORE, SB2COREX SETS



### SB1CORE Set Building Core Set

Stock No.	Description	Page
106BTMX	6 pc 1/4" Drive Knurled Extension Set	108
124STTMM	24 pc 1/4" Drive 6-Point Metric Flank Drive® Shallow/Deep Socket Set	114
206AFX	6 pc 3/8" Drive Knurled Extension Set	149
209EFTXBY	9 pc Combination Drive TORX® Bit Heavy-Duty Removal Socket Set	168
210EFTAMY	10 pc Combination Drive Metric Standard Hex Bit Socket Set	170
224SFFSM	24 pc 3/8" Drive 6-Point Metric Flank Drive® Shallow/Deep Combination Socket Set	157
AWP120	12" Adjustable Joint Pliers	382
CSA8CR	7-5/8" Rigid Carbon Scraper	413
F80	3/8" Drive Dual 80° Technology Standard Handle Ratchet	144
FLF80A	3/8" Drive Dual 80° Technology Long Handle Flex-Head Ratchet	145
FU80B	3/8" Drive 1-11/16" Friction Ball Universal Joint	151
GLASS30R	Safety Glasses	827
HBB24	24 oz Ball Peen Soft Grip Dead Blow Hammer	399
OEXM710B	10 pc 12-Point Metric Flank Drive® Combination Wrench Set	273
PL400B	4 pc Pliers/Cutters Set	377
PWCS7ACF	7" Wire Stripper/Cutter/Crimper	386
S9706KA	3/8" Drive 6-Point SAE 5/8" Flank Drive® Shallow Spark Plug Socket	422
S9714MK	3/8" Drive 12-Point Metric 14 mm Flank Drive® Standard Spark Plug Socket	165
SGA173BR	Soft Grip Radiator Hose Pick	722
SGDX60BR	6 pc Combination Instinct® Soft Grip Screwdriver Set	342
SGASA204CR	4 pc Instinct® Soft Grip Miniature Pick Set	370
SOXRRM710A	10 pc 12-Point Metric Flank Drive® Plus Reversible Ratcheting Combination Wrench Set	256
T72	1/4" Drive Dual 80° Technology Standard Handle Ratchet	104
TF72	1/4" Drive Dual 80° Technology Standard Handle Flex-Head Ratchet	104
TMU8B	1/4" Drive 1-1/8" Friction Ball Universal Joint	108
TPMA12	12' Tape Rule	775
UIM225‡	Telescoping Inspection Mirror (Blue-Point®)	778
UTK150	Auto-Loading Utility Knife	409
YA160A	Ear Protectors (Blue-Point®)	826

### SB2COREX Set Building Core Plus Set

Stock No.	Description	Page
1206GS	6 pc Combination Square Drive Adaptor Set	109
208EPIT	8 pc 3/8" Drive Impact Driver Set	175
305ASX	5 pc 1/2" Drive Extension Set	204
310TWMYA	10 pc 1/2" Drive 6-Point Metric Flank Drive® Shallow Socket Set	208
312CF	11" Heavy-Duty Diagonal Cutter	378
313TSMYA	13 pc 1/2" Drive 6-Point Metric Flank Drive® Deep Socket Set	210
388ACF	8" High-Leverage Diagonal Cutter	378
911ACF	11" Needle Nose Pliers	381
97ACF	9" Needle Nose Pliers	380
HBB24	32 oz Ball Peen Soft Grip Dead Blow Hammer	399
HBFE24	24 oz Soft Grip Dead Blow Hammer	398
OEXM210B	21 mm 12-Point Metric Flank Drive® Combination Wrench	273
OEXM220B	22 mm 12-Point Metric Flank Drive® Combination Wrench	273
OEXM240B	24 mm 12-Point Metric Flank Drive® Combination Wrench	273
PPC710BK	11 pc Punch and Chisel Set	395
RXFMS606B	6 pc 6-Point Metric Flank Drive® Double End Flare Nut Wrench Set	288
S80A	1/2" Drive Dual 80° Technology Standard Handle Ratchet	201
SLF80A	1/2" Drive Dual 80° Technology Long Handle Flex-Head Ratchet	201
SGHBF500A	4 pc Instinct® Mixed File Set	410
SRPCR107	7 pc Snap Ring Pliers Set	384
TQFR250E	1/2" Drive TQ Series Flex-Head Torque Wrench (40–250 ft-lb)	315