



SCHLEY PRODUCTS INC.

# *Specialty Automotive Hand Tools*



12 Time Winner

*Quality Crafted Tools!*  
*Domestic • Asian • European*



7 Time Winner

## NEW TOOLS



**ORGANIZEDAIR™**



2009

**PART NUMBER 67900**  
SEE PAGE 8 FOR DETAILS

### TOYOTA HARMONIC DAMPER PULLEY HOLDING TOOL FOR 3.4L

**PART NUMBER 64400**  
SEE PAGE 19 FOR DETAILS



### MAGNETIC WASHER TOOL

PATENT PENDING



**PART NUMBER 67700**  
SEE PAGE 4 FOR DETAILS



### HARLEY DAVIDSON FRONT FORK CAP TOOL

**PART NUMBER 67250**  
SEE PAGE 28 FOR DETAILS



### GM POWER STEERING PUMP SEAL R&R TOOL

**PART NUMBER 68500A**  
SEE PAGE 9 FOR DETAILS



### VW/ AUDI SPARK PLUG BOOT PULLER AND INSTALLER

**PART NUMBER 98180A**  
SEE PAGE 26 FOR DETAILS



### TOYOTA / LEXUS CAM SEAL R&R TOOL

**PART NUMBER 65510**  
SEE PAGE 21  
FOR DETAILS



### SUPER DUTY 12 & 6 POINT OXYGEN SENSOR WRENCH WITH HANDLE

**PART NUMBER 67750**  
SEE PAGE 7 FOR DETAILS

PATENT PENDING



### SHIELDED OXYGEN SENSOR WRENCH

PATENT PENDING

**PART NUMBER 66750B**  
SEE PAGE 21 FOR DETAILS



### BENDIX BRAKE VALVE HOLDER

**PART NUMBER 67400**  
SEE PAGE 16 FOR DETAILS



2008



### SERPENTINE, V-BELT & TIMING BELT INSTALLATION ASSIST

**PART NUMBER 94170A** SEE PAGE 5 FOR DETAILS



### VW/ AUDI TIMING BELT PULLEY HOLDER

**PART NUMBER 67600**  
SEE PAGE 26 FOR DETAILS



### HONDA S2000 CLUTCH ALIGNMENT TOOL

**PART NUMBER 68350**  
SEE PAGE 18 FOR  
DETAILS



SCHLEY PRODUCTS, INC. was founded in 1979 for the sole purpose of manufacturing specialty tools for the automotive aftermarket. From the start, Schley Products philosophy has been to produce economical tools of the highest quality and standards which through innovative and sound engineering make a previously difficult task now easy to accomplish.

Before manufacturing a particular tool, extensive research is conducted to ensure a strong demand. Then the prototype of this tool is tested in the field for application, acceptance, performance and durability. Only after passing this program is a tool added to the Schley Products/SP Tool line.

Quality is the rule we live by at Schley Products. From every facet of manufacturing to sales and marketing, everyone at Schley Products stands behind this reputation.

With our growth, we have implemented a number of programs. Programs from reimbursing for tool ideas that go to market, to widening our distribution base to serve the technician better. We want to ensure that the professional technician will have the best tools available on a timely basis.

**SCHLEY PRODUCTS, INC.**  
MANUFACTURER OF SPECIALTY AUTOMOTIVE TOOLS

5350 E. Hunter Ave, Anaheim Hills, CA 92807, Phone (714) 693-7666 • FAX (714) 693-8558 • [sptool.com](http://sptool.com)

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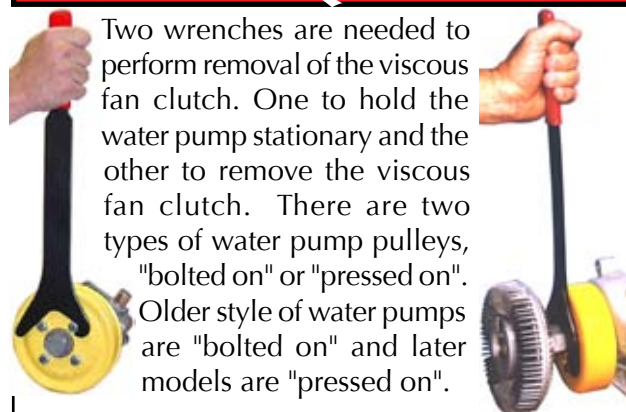
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# ••••• FAN CLUTCH WRENCH •••••

## QUICK REFERENCE GUIDE

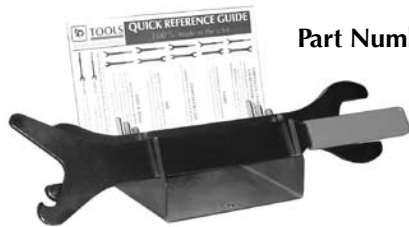


Two wrenches are needed to perform removal of the viscous fan clutch. One to hold the water pump stationary and the other to remove the viscous fan clutch. There are two types of water pump pulleys, "bolted on" or "pressed on". Older style of water pumps are "bolted on" and later models are "pressed on".

| <p><b>If "Bolted on" use #61600 to hold the pulley</b></p> <p><b>If "Pressed on" Domestic use #99800 or #61500A or European #63600</b></p>   |  |                                      |  |                           |                      |                     |              |
|--|--|--------------------------------------|--|---------------------------|----------------------|---------------------|--------------|
|  | UNIVERSAL #61600   | Five pin #99800 Domestic gas engines | Four pin #61500A Domestic diesel engines | Four pin #63600 Audi & VW | 36 mm & 48 mm #95210 | 40 mm "thin" #95260 | 32 mm #62100 |
| <b>CHRYSLER • FORD • GM<br/>LAND ROVER • MAZDA</b><br>(except Ford 4.9 L 6 cylinder engines, see Ford below).<br><i>"Bolted on"</i> water pump pulleys.<br>See pages 3,10,13,14 & 22 for applications.   | ●  |                                      |  |                           | ●                    |                     |              |
| <b>FORD 4.9 L 6 Cyl.</b><br>Used on Ford 4.9 L 6 cylinder F Series pickup trucks 93-96 and Econoline van 92-96.  | ●  |                                      |  |                           |                      | ●                   |              |
| <b>CHRYSLER • GM<br/>LATE MODEL GAS ENGINES</b><br><i>"Pressed on"</i> water pump pulleys.<br>See pages 10 & 13 for applications.  |  | ●                                    |  |                           | ●                    |                     |              |
| <b>GM LATE MODEL DIESEL ENGINES</b><br>GM 6.5 L diesels 2000-2001, GM / ISUZU DURAMAX 6.6L 2001-2005 and new straight pin slot fan hub 2006 and later.<br><i>"Pressed on"</i> water pump pulleys.<br>See pages 10 for applications.  |  |                                      | ●  |                           | ●                    |                     |              |
| <b>AUDI • BMW • VW</b><br><b>AUDI</b> 1996 and later (except pressed on pulley see below)<br><b>BMW</b> 3, 5, 6, 7, 8, X & Z series.<br>(The #61600 Universal Water Pump Pulley Holding tool works on all BMW's except the 4.0L & 4.4L V-8 engines).<br><b>VW's</b> 1998 and later<br>(except pressed on pulley see below)<br><i>"Bolted on"</i> water pump pulleys. | ●  |                                      |  |                           |                      |                     | ●            |
| <b>AUDI &amp; VW</b><br><b>AUDI &amp; VW</b> See page 24 for applications<br><i>"Pressed on"</i> water pump pulleys.   |  |                                      |  | ●                         |                      |                     | ●            |



# •••••FAN CLUTCH WRENCH SETS•••••



Part Number 62020

## TWO FAN CLUTCH WRENCHES, RACK AND QUICK REFERENCE GUIDE

Part Number 62020 is a combination of two of the most popular wrenches (#95210 & #61600), display rack and a quick reference guide. These two wrenches fit all "bolt on" style water pump pulleys for Chrysler, Ford, General Motors, Land Rover and Mazdas (Not including the 4.9 liter 6 cylinder Ford).

## FIVE FAN CLUTCH WRENCHES, RACK AND QUICK REFERENCE GUIDE

Part Number 62050 consists of the display rack, a quick reference guide and a complete set of five of the most used fan clutch wrenches (#95210, #95260, #99800, #61500 & #61600). The five wrench set works with all Chrysler, Ford, General Motors, Land Rover and Mazdas. This set of wrenches can be used to remove the viscous fan clutch on "bolt on" water pump pulleys and the newer "pressed on" style water pump pulleys.



Part Number 62050



Part Number 62000

## RACK FOR FAN CLUTCH WRENCHES INCLUDES QUICK REFERENCE GUIDE

Part Number 62000 is the display rack and quick reference guide only. It can be sold to the professional technician for fan clutch wrench storage, as well as display use in the mobile tool dealers truck.



36 mm & 48 mm #95210

## #61200 TWO PIECE KIT

Used on water pump pulleys that are ***bolted on***,



U.S. PATENT 6,912,936

Universal #61600

The #61200 fan clutch wrench two piece kit gives the professional technician the ability to service all fan clutches that have bolt on pulleys on the water pump. Works with Chrysler, GM, Ford, Land Rover and Mazda (Not including the 4.9 liter 6 cylinder Ford).



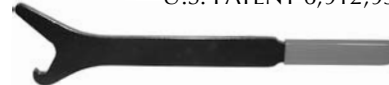
36 mm & 48 mm #95210

## #61260 THREE PIECE KIT

Used on water pump pulleys that are ***bolted on***,



40 mm "thin" #95260



U.S. PATENT 6,912,936

Universal #61600

This three piece kit gives the professional technician the ability to service all fan clutches that have bolt on pulleys on the water pump. Works with all Chrysler, GM, Ford, Land Rover and Mazda applications. (Includes the 4.9 liter 6 cylinder Ford).

## HEAVY DUTY 36 mm & 48 mm FOR SPECIAL APPLICATIONS



36 mm #88550

Part Number 88550

Used when extra leverage is needed in 36 mm applications.



48 mm #61800

Part Number 61800

Used when extra leverage is needed in 48 mm applications. GM gas and diesel engines, FORD & CUMMINS diesel engines.

# ••••• UNIVERSAL TOOLS •••••



## MAGNETIC WASHER REMOVER

Patent Pending

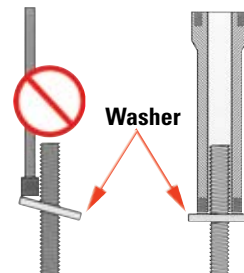
Part Number 67700

This specialty designed patent pending dual ended tool has small magnets that are designed to aid in the removal of hard to reach washers that are around most types of studs. This tool can also be used to help the technician in the removal of valve adjusting buckets and pucks. Manufactured from light weight and durable glass filled nylon plastic.



1 Magnet Tool  
Difficult & time consuming

3 Magnet tool



## ADJUSTABLE HOSE CLAMP PLIERS

"For Use On Most Constant Tension band Type Hose Clamps"

Part Number  
95600  
STRAIGHT



Part Number  
95640  
SIDE LOADER 90°



Automotive applications for the use of constant tension band hose clamps are numerous and require many different sizes of clamps to fulfill these needs. SP TOOLS has developed a fully adjustable hose clamp pliers which enables the professional technician to access, release tension and remove most constant tension band hose clamps no matter what their size. These compact pliers come with deep slotted tips which hold the clamp firmly. These tips also rotate a complete 360° allowing for optimum positioning of the pliers to ease the removal of these hose clamps. Made from heat treated steel these unique pliers come with soft grip handles. The pliers come in two configurations: #95600 Straight, and #95640 Side Loader 90°. There are numerous applications where the straight adjustable hose clamp pliers (#95600) cannot access and remove clamps. **US Patent #6,128,975**

US Patent #  
5,003,681

## UNIVERSAL BRAKE CALIPER TOOL

For Use On Most

AUDI • CHRYSLER CORPORATION • FORD • GENERAL MOTORS • HONDA • JAGUAR • MAZDA  
MINI • MITSUBISHI • NISSAN • SATURN • SUBARU • TOYOTA • VOLKSWAGEN • VOLVO

This tool has been designed for the easy replacement of brake pads on most four wheel disc brake cars. In operation, the tool makes clearance for new, thicker brake pads by rotating the brake piston back into the caliper until the piston is bottomed. Rotating the piston is required on most disc brake calipers which are also used as emergency brakes. The tool set, part #86100B, comes with 6 different sizes of snap-on adapters. Adapters #1, 2 & 3 cover a wide range of cars while #'s 4, 5 & 6 have been developed for the unique General Motors style brake piston. The tool sets, part numbers 86100B and 85250B, come in a durable plastic box.



**Part Number 86100B** Complete tool for G.M. Ford, Chrysler Corporation & import (7 adapters including 86100B-7 adapter for Mazda, Mini Cooper & Volvo)

**Part Number 85250B** Import, Ford and Chrysler Corp (less the 3 GM adapters)

**Part Number 86150** Set of 3 G.M. adapters (for use with #85250B or 91150)

**Part Number 91100A** VW, Subaru tool kit

**Part Number 91150** Saturn tool kit

**Part Number 67300** Mazda 3 2004 & later, Mazda 5 2006 & later, Mini Cooper all 2002 & later, Volvo S40 2004 1/2 & later, V50 2006 & later, C30 2007 & later, Jaguar X type 2006 & later, Pontiac Solstice 2006 & later, Saturn Sky 2007 & later, Ford Fusion / Mercury Milan / Lincoln MKZ 2006 and later.



### UPDATE MOST BRAKE CALIPER KITS ON THE MARKET TO THE NEW APPLICATIONS.

Two sizes of drive hole are available, **Part Number 86100B-7** to work with all 1/2" drive sets on the market & **Part Number 67380** to work with 3/8" drive sets available on the market.

Applications same as part number **67300** above.

## FORD / MERCURY COUNTER CLOCKWISE BRAKE CALIPER TOOL

Part Number 64250

On 2005-2007 Ford Five Hundred, Ford Freestyle and Mercury Montego, 2008 and later Ford Taurus, Taurus X and Mercury Sable, the brake caliper has a left handed thread. The counter clockwise threads in this tool enable pressing, correctly, the caliper piston until bottomed for brake pad replacement.



## BELT IT

"Serpentine, V-belt and Timing Belt installation assist"

This time saving tool gives the technician the control and reach when installing serpentine belts in all applications. The tool was also designed to help install V-belts and timing belts that tend to be placed in areas that are difficult to reach. The three pin design gives the technician convenient belt push/pull capability and the handle gives the technician the twisting control to install belts in difficult areas.

**Part Number 94170A**



## HEAD HANDLER™

**Part Number 66110 6mm X 1.0 • 66120 1/4" X 20 • 66130 8mm X 1.25**

Each part number contains two pieces

**Part Number 66100 includes two of each of 6mm, 1/4" and 8mm**

These unique tools allow the technician to easily lift and maneuver cylinder heads when service is needed. Choose the appropriate thread size Head Handler™, then (used in tandem) simply spin the Head Handler™ into each end of the cylinder head until snug. Now you can easily lift and carry the head. No more cut fingers from sharp edges or oil and coolant stains on your clothes. There is a comfort grip with a balanced tee handle design. Made from heat treated steel these tools have an attached floating washer for protection of the head and more contact area.



The Head Handler™ will work with most cylinder head threaded holes.



## UNIVERSAL LONG REACH SPARK PLUG BOOT PULLER

This tool was designed to aid in the removal of spark plug wires. This universal long reach spark plug boot puller has a swivel action that lets the technician reach down at any angle to grab the spark plug boot and to use leverage to pull the rubber boot from the spark plug without damaging the plug wire. The tips of the tool also have an opening where the spark plug wire can exit the tips so not to damage the wire. This tool works on all types of vehicles.

**Part Number 65350**



## VARIABLE ANGLE VALVE STEM SEAL

The area under the hood to access valve stem seals using the straight style valve stem pliers has become encumbered with manifolds, wires, tubes and linkages. The professional technician now has less room and more difficulty accessing valve stem seals. This new tool can be used in areas of restricted access through an innovative rotating jaw assembly. This design allows the plier handles to rotate to any position above the head while the jaw assembly goes down into the spring cavity. These pliers can be used straight or at any angle up to as far as a full 90°. The jaw tip is also innovative, in that it has a thin ledge for "hooking" underneath stubborn valve stem seals. There are also four vertical raised ridges on the inner diameter of the jaws to aid in gripping the outside diameter of the valve stem seal.

**Part Number 62900**

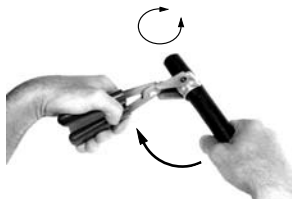


## UNIVERSAL HOSE PLIERS FITS 1/2" TO 3/4"

Removal of many hoses can be difficult when the hose connection is in a confined area and stuck because of corrosion between the hose and its fitting. These pliers have the ability to power rotate the hose to break it loose from its fitting. In the same motion these pliers can be rotated 90° to easily pull the hose from the fitting. The specially designed tips of these pliers grip a large surface area of the hose to reduce damage and help remove the hose. These pliers also work on a variety of hoses with different diameters. The unique design helps in installing the hose by giving the professional technician a way to grip the hose down in confined areas which restrict the use of the technicians hands. Made from quality steel these pliers come with soft grip handles.

US Patent # 5,991,997

**Part Number 96600**  
1/2" to 3/4"



**BREAK LOOSE POWER ROTATE POSITION**



**POSITION CHANGE FOR REMOVAL OR INSTALLATION**



1997



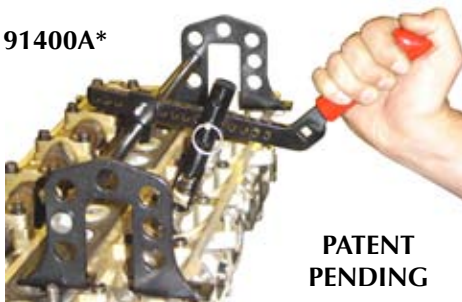


## UNIVERSAL OHC VALVE SPRING COMPRESSOR

This universal valve spring compressor has been developed to remove and install the valve springs with the cylinder head still on the engine and in the car or with the cylinder head removed. The multipoint adjustable base of this tool bolts securely to the head. The newly developed lever has 16 multiple adjustment positions and is securely attached to the bar with a positive acting slider. The lever also has a 3/8" square drive and pivots from the bar thus compressing the spring. Quick removal and installation of the spring retaining keepers is then easily accomplished through the large openings on both sides of the compression tube. This quality tool comes complete with an "easy grip" handle and is packaged in a blow molded box. *Not for 5 valve heads.*



Part Number 91400A\*



PATENT  
PENDING

\* There may be additional applications for other vehicles

## UPDATE KIT

Updates #91400 or similar kits

that have a 5/8" bar  
Part Number 91410



The update kit includes: Handle, slider and two detent clevis pins.

## ROLL PIN INSTALLING TOOLS



The tip of each tool has a precision machined cavity which holds the roll pin due to a slight press fit. In operation, the roll pin is easily installed as the tool holds it in place up to the hole it is going into. The roll pin is then pressed in as the tool is struck with a hammer. The tool's grip on the roll pin is then released as the roll pin goes into place. Each set comes in its own rugged, industrial tool pouch for easy identification and storage.

### Individual Part Numbers

| Part# | Size | Part# | Size  |
|-------|------|-------|-------|
| 89930 | 3mm  | 90310 | 3/32" |
| 89940 | 4mm  | 90320 | 1/8"  |
| 89950 | 5mm  | 90330 | 3/16" |
|       |      | 90340 | 1/4"  |

### Part Number 90300

Inch set of 3/32, 1/8, 3/16 & 1/4 inch.

CAUTION – WEAR SAFETY  
GOGGLES WHEN STRIKING.



## UNIVERSAL VALVE ADJUSTMENT TOOLS

For Use On All 10mm, 12mm, 13mm Jam Nut Adjustment Screws

Part Number 88800 12mm Jam Nut

Part Number 88900 13mm Jam Nut

Part Number 88950 10mm Jam Nut



This Universal Valve Adjustment Tool has been designed for a wide variety of cars with 10mm, 12mm & 13mm jam nut valve adjustment screws. This two in one tool features a window in its socket so the technician can see the position of the screwdriver blade holding the adjustment screw as the jam nut is tightened. This visual contact in addition to the feel of holding the screwdriver allows for quicker valve adjustment times as the technician can hold the adjustment screw exactly where he wants it. The unique handle pivots from one side to the other, so the window is always visible. Made from heat treated chrome vanadium steel this tool comes with a soft grip handle.



## BULLET SOCKET

It's designed to help technicians adjust camber when using an aftermarket "Bullet Cam Bolt Kit" or "Silver Bullet." The Bullet Socket allows positive camber adjustments and easy access to the "bullet" pivot nut in many applications.



Part Number 91910



## SUPER DUTY 12 & 6 POINT OXYGEN SENSOR WRENCHES OFFSET (2 1/8"), COMPACT & TRI-PACK & WITH HANDLE

**Part Number  
93750A**



**"For Use With Any Size Electrical Connectors"**

These wrenches have been designed for use with most all oxygen sensors no matter what size electrical connectors they have. The original wrench, #88750, allows easy access to the oxygen sensor, which is often located in a very confined area. The #88750A even fits into the area above the catalytic converter on 16 valve VW GTIs. The #93750A was developed to access oxygen sensors on LTI Gen II 5.7L HO MPFI V-8 found in the 1992 and later Corvette, 1993 and later Camaro and 1993 and later Firebird/Trans Am. It also works with 1989 and later Corvette ZRI with the LT5 5.7L DOHC SFI V-8. All 2007 and later Harley Davidson Motorcycles. Both wrenches work on many domestic and foreign applications. Made from quality alloy steel with a black finish.



**Part Number  
88750A**



**Part Number 67750**

The new handle design allows the technician greater space and positive leverage in confined areas. With 12 & 6 point positioning and a pivoting handle will make a tough job easy.

PATENT PENDING

**Part Number 67100**  
Includes 88750A, 93750A  
and 66750B Shielded Oxygen  
Sensor Wrenches  
(See page 21 for 66750B  
applications)

## NARROW ACCESS VALVE STEM SEAL REMOVAL PLIERS



**Part Number  
92350**

These pliers have been developed to remove the valve stem seals which are used on most overhead camshaft engines which includes 4 valve per cylinder engines that have very narrow access to the valve stem seal due to the design of the heads. These pliers feature "gripping" serrations in the tip allowing them to grasp both original equipment and aftermarket seals regardless of their configuration. The pliers are made from quality heat-treated steel and come with easy grip handles.



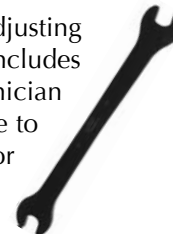
**Part Number  
90850**

## MONROE REAR SHOCK WRENCH

This specialty wrench is for use on most 1970 and later model AMC, Ford, General Motors, Isuzu, Jeep, Nissan, Opel and Toyota automobiles with rear mounted Monroe replacement shock absorbers. This wrench has been designed to fit over the double "D" shaped end of the lower shock bolt during removal and installation of the shock. A unique stopper plate is incorporated to keep the shock bolt from passing through the wrench. Made from quality heat treated steel, this tool comes in a black finish with a soft grip handle.

## TIE ROD WRENCH 21mm & 22mm COMBINATION

This special double-ended extended length wrench was developed to be utilized when adjusting the front tie rods on most ASIAN, EUROPEAN AND DOMESTIC automobiles which includes over 29 different automobile manufacturers. The extended length enables the technician to reach into the confined area of the front wheel tie rod and apply additional torque to loosen these often tight tie rod nuts. The open end dimensions of the tool are sized for a close tight fit. This provides the maximum grip on the tie rod nut. The tool is made from quality steel and comes in a black finish.



**Part Number  
94850**

## RELAY AND FUSIBLE LINK SLIP JOINT PLIERS

**"FOR REMOVAL AND INSTALLATION"**

This unique tool has been developed for removal and installation of relay and fusible links on many later model automobiles. These square and rectangular shaped relays and fusible links are located in confined areas making them difficult to reach. In many cases the relays and fusible links are grouped close together without any room around them for hand removal. This tool has been engineered to reach into the confined area around the corners of the relay or fusible link with special coated tips for a solid grip needed in removing and installing them. These pliers come with soft grip handles and have been designed with a slip joint feature allowing multiple size usage.



**Part Number  
98110**



## OrganizeAIR™

Part Number 67900

PATENT 7261211

This unique tool has a strong magnetic base, which holds it in place. A loading and unloading port is provided so the disconnect plugs of the air-tool can be placed into the holding pins and then rotated into the locking channel. A concealed spring controls the rotation of the center hub. Keep air chucks, blowguns and smaller air tools close at hand. Simple loading and retrieval of tools when you need them. This easily movable storage device holds up to 6 tools. Magnetic base attaches to tool boxes, air compressor frames, auto lifts, tool carts, service trucks, steel benches or any other Ferris metal surface. Fits most popular disconnect plugs. Rugged design for long lasting use. Rust and corrosion resistant.



Air fittings not included

## FUEL & AIR CONDITIONING LINE COUPLING RELEASE TOOLS FOR 5/16, 3/8, 1/2 & 5/8 LINES

These unique tools have been developed for use in disconnecting the fuel and air conditioning line couplers found on most late model automobiles. These special quick connect couplers must be disconnected whenever the intake or A/C System is removed. In operation, this tool closes around the line and then, with plenty of leverage from grips, is popped into the coupler, releasing the coupler's grip on the line.



### ANGLE TIP

Part Number 90550 5/16 & 3/8 inch set

Part Number 90560 1/2 & 5/8 inch set

Part Number 90550-1 5/16 inch

Part Number 90550-2 3/8 inch

Part Number 90560-1 1/2 inch

Part Number 90560-2 5/8 inch



### FLAT ACCESS

Part Number 94570

5/16 & 3/8 inch set

Part Number 94570-1 5/16 inch

Part Number 94570-2 3/8 inch



## BENCH HEAD STAND

For Use On Aluminum & Steel Heads

Part Number 88150

This premium head stand has been designed for use on most all cylinder heads. In operation, it holds the head off the bench for valve work, head cleaning and assembly. Its holding rods have a long 5 inch taper which allows them to go further into the stud hole for more contact in the hole and a firmer grip on the head. These holding rods are also heat treated to remain smooth for use on aluminum heads. This unique head stand is packaged as a set and comes in a black finish.



Part Number  
88300

## WISE MOUNT HEAD STAND

For Use On Aluminum and Steel Heads With Exhaust and/or Intake Manifold Still Attached

This universal Vise Mount Head Stand has been designed to hold cylinder heads up and away from the work bench. This will allow clearance for exhaust and/or intake manifold to be left on the heads which is preferred when working on many front wheel drive four cylinder engines. In operation, this tool is clamped to the bench vise and with its movable arms will adjust to any cylinder head configuration. The holding rods have a long 5 inch taper which allows them to go further into the stud hole for more contact and a very firm secure grip on the head. These holding rods are also heat treated to remain smooth for use on aluminum heads. This universal tool will also work as a conventional bench head stand when clearance for the exhaust and/or intake manifold is not necessary. Simply slide the arms off the vise held crossbar and use them separately on the top of any bench. This universal "two in one" tool comes in a black finish.



## MASTER CYLINDER PRESSURE CAP

For Most Import Automobiles

This universal cap has been designed for use with pressure bleeders on most master cylinders or clutch slave cylinders. For use on most Audi, BMW, Mazda, Mercedes, Porsche, Saab, Volkswagen and Volvo. Comes with 1/4-18 NPT threaded opening.

Part Number 89250



# ••••GENERAL MOTORS••SATURN••••

## G.M. POWER STEERING PUMP SEAL R&R TOOL

Removing seals, the conventional and the difficult pick method is no longer necessary. With the slim design of this tool, you don't have to remove the pump from the engine and you will not damage the pump pulley shaft.

This tool works on G.M. power steering pumps 1975 to present.

PATENT PENDING

Part Number 68500A



## GM OIL PUMP DRIVE REMOVAL TOOL

This specially designed tool has been designed and manufactured with the idea of being able to easily remove the oil pump drive on most G.M. V-6 engines with the intake manifold still attached to the block and cylinder heads. The oil pump drive is located in a very small area that is surrounded by the intake manifold and other obstructions. With this remover, the job is done easily and quickly.

PATENT PENDING



Part Number 65550

Works on these  
G.M. engines:  
2.8L V-6 1987-1989  
3.1L V-6 1990-1994  
3100 V-6 1994-2005  
3.4L V-6 1999 and later



## CADILLAC / AURORA WATER PUMP R&R SOCKET

This unique tool has been developed to remove and install the water pump on Cadillac Northstar 4.6 liter V-8 engines from 1993 and later also Oldsmobile Aurora 4.0 liter V-8 engines 1995 and later. Many of the sockets presently available on the market are fragile in nature due to the confined area around the water pump impeller and the water pump housing. This new tool has enhanced durable contoured fingers that gives the professional technician the most strength and control in removing and replacing the water pump impeller.

Part Number 61100



## GM TRANSMISSION SEAL REMOVAL AND INSTALLATION TOOLS



Part  
Number  
93480

Part  
Number  
96480

These tools were designed to gain access for removal and replacement of the shift selector shaft seal on G.M. rear wheel drive transmissions.

Part number 93480 works with transmissions that have the short selector shaft.

Part number 96480 works with transmissions that have the neutral safety switch around the transmission shift selector which requires a longer tool to remove and replace the seal. This tool works on all 1996 and later trucks and Astro/Sierra Vans, 1998 and later GM SUV's includes Denali, Envoy & Escalade with transmissions 4L60E and 4L80E.



## TBI IDLE AIR CONTROL VALVE WRENCH

This specialty wrench has been developed for aiding removal and installation of the Idle Air Control Valves (IACV). The control valves are found on GM's Throttle Body Injection (TBI) systems. The wrench's unique compact crowfoot design, with a 3/8 inch square ratchet drive, allows for an easy fit in the confined area of the valve. Made from high quality heat treated steel, this tool comes in a black finish.

Part Number 90800



## GM FUEL LINE COUPLING RELEASE TOOLS



ANGLE TIP

These unique tools have been developed for use in disconnecting the fuel and air conditioning line couplers found on most late model automobiles. These special quick connect couplers must be disconnected whenever the intake or A/C System is removed. In operation, this tool closes around the line and then, with plenty of leverage from grips, is popped into the coupler, releasing the coupler's grip on the line.



Part Number 90550 5/16 & 3/8 inch set  
Part Number 90560 1/2 & 5/8 inch set  
Part Number 90550-1 5/16 inch  
Part Number 90550-2 3/8 inch  
Part Number 90560-1 1/2 inch  
Part Number 90560-2 5/8 inch

FLAT ACCESS

USED ON NORTHSTAR ENGINES

Part Number 94570 5/16 & 3/8 inch set  
Part Number 94570-1 5/16 inch  
Part Number 94570-2 3/8 inch



# ••••GENERAL MOTORS••••SATURN••••



## G.M. DURAMAX CRANKSHAFT AND FLYWHEEL KIT

**Part Number**  
**69200**

This socket and hex tool were developed to aid the technician in servicing the GM Duramax diesel trucks. 36 mm 12 Point 3/4 inch drive impact socket removes the crank bolt which requires a torque of 285 ft. Lbs. The 14 mm 1/2 inch drive stubby impact Allen socket aids the technician in removal and installation of the flywheel. Torque specs are 58 Ft. Lbs. plus 120 degrees of torque angle.

**AVAILABLE 12-09**



## G.M. & SATURN REAR CAMBER / TOE ADJUSTMENT WRENCH

Accurately sets camber & toe adjustment utilizing a 12 point box end offset wrench. Designed with a long reach arm to access adjustment points giving the technician easy adjustment to both camber and toe. The long arm is also long enough to ensure enough torque can be applied to the eccentric nuts for ease of fine adjustments. Works on both two and four wheel drive SUV's: Saturn VUE 2003 and later, Chevy Equinox 2005 and later.

**Part Number 65150**



## G.M. FAN CLUTCH WRENCHES

### "For Use On 1996 and Later G.M. SUV's, Trucks and Vans"

These uniquely designed tools are used in conjunction with #95210 to loosen and tighten the fan clutch on 1996 and later G.M. SUV's, trucks and vans. The unique design of the #61600 works with all water pumps that have bolts holding the pulley on the pump. On later years, water pump pulleys are pressed on and pins in the #99800 or #61500 are inserted into the pulley to hold the water pump stationary for fan clutch removal and replacement.

U.S. PATENT 6,912,936



**# 61600**



**#99800**



**# 61500A**



**# 61800**

**Part Number 61600** is used on the following applications with pulley bolts: 3.5L & 4.2L Vortec 5 Cylinder, 4.2L & 4.3L Astro & Safari Vans, Blazer, Jimmy & Bravada Sport Utility Vehicles; 2.2L 4CYL & 4.3L V-6 S-10, Sonoma & Isuzu Hombre small pickups; 4.3L V-6, 5.0L V-8 and 5.7L V-8, C1500, C2500, C3500, K1500, C1500 Sierra, C2500 Sierra, C3500 Sierra & K1500 Sierra pickups, G1500 or G2500 Chevy Express, G1500 or G2500 Savanna Vans; 5.7L V-8, Suburban, Tahoe, Yukon, Envoy, Escalade, Denali and other engines with bolts. 2.8L 4 cyl. Colorado & Canyon 2005 and later, 3.5L 5 cyl. Colorado & Canyon 2004 and later also Hummer H3 2006 and later, 4.2L 6 cyl. Trailblazer, Envoy & Bravada 2003 and later also Rainier 2004 and later.

**Part Number 99800** is used on the following applications with out pulley bolts: 4.8L V-8, 5.3L V-8, and 6.0L V-8 all 1999 and later gas engines with out pulley bolts. *Does not work on AC Delco Second Line Part #88926296 (252-782). (GM use the 3 pin side of the tool).*

**Part Number 61500A** is used on the following applications with out pulley bolts: G.M. 6.5 Liter diesel engine 2000-2001. G.M. / Isuzu-Duramax 6.6 Liter diesel engine 2001-2005, G.M. / Isuzu-Duramax 6.6 Liter diesel engine with the new type pin straight slot fan hub 2006 & later.

**Part Number 61800** used on 48 mm applications that need extra leverage for gas and diesel engines.

**GM FAN CLUTCH WRENCH KIT #61200 (#61600 & #95210) for all bolt on style water pump pulleys**

## GM SERPENTINE BELT TENSIONER TOOLS



These tools are designed to reach down through the engine compartment in areas that are not easily accessible with standard tools or "universal" belt tensioner tools. Many times engine area accessories inhibit the direct access without removing components or needing two technicians to release the belt tensioner. **For belt installation assistance, see "Belt It" #94170A on Page 5.**

**Part Number 90270\***

1/2" square for all vehicles using 1/5" square style tensioners and 1984 and later Corvettes (not ZR1).

**Part Number 68170\***

14mm hex style for SATURN SL, SL 1, SL 2, SW 1, for 1991 and later.



## MONROE REAR SHOCK WRENCH

This wrench is for use on most 1970 and later model AMC, Ford, G.M., Isuzu, Jeep, Nissan, Opel and Toyota cars with rear mounted Monroe replacement shock absorbers. This was designed to fit over the double "D" shaped end of the lower shock bolt during removal and installation of the shock.

**Part Number 90850**



**Part Number 88350**



## 19mm FRONT ALIGNMENT WRENCH

**For Use on GM J-Car Rack and Pinions**

This 19mm wrench is used when setting the toe alignment on General Motors J-Car series automobiles including Cavalier, Cimarron, Firenza and Sunbird 1982 and later. The J-Car has a rack and pinion that is uniquely different from other GM lines and requires this special wrench when making "toe" adjustments.



# ••••GENERAL MOTORS••SATURN••••

**Part  
Number  
66200**

## G.M. DOOR BUSHING INSTALLATION TOOL

Easily install the bushings on door hinges. In usage, the restricted area of the hinge is not accessible for a straight and true installation of the bushing. This tool allows easy access when installing the bushing. It accurately guides and holds the bushing in place while the technician either taps the tool with a hammer or squeeze it with pliers to install the bushing.

Works on vehicles that have replaceable bushings:

S10 & Sonoma 1982-2004, 1/2 & 3/4 ton trucks 1980-1999, One ton trucks 1980-2001, Blazer 1980-2005, Suburban 1980 & later, Tahoe 1980 & later, Astro & Express 1980 & later, Avalanche 2002 & later



**2006**

## G.M. HARMONIC DAMPER HOLDING TOOLS

These harmonic damper pulley holding tools have been developed to aid in the removal and installation of the crank bolt. The bolts holding these pulleys are extremely tight and without the #64500 or #64700, removal is extremely difficult at best. In replacing the center bolt after installation of the pulley, factory specifications require up to 240 pounds of torque to seat the pulley properly. Refer to factory specifications for specific requirements. These tools allow the factory torque to be attained.



**PartNumber 64500**

4.2L Straight 6 cylinder 2003 and later Trailblazer, Envoy, Bravada and 2004 and later Ranier.

3.5L Straight 5 cylinder 2004-2006 Colorado & Canyon also 2006 and later Hummer H3, 3.7L straight 5 cylinder 2007 & later

2.8L Straight 4 cylinder 2005-2006 Colorado & Canyon, and 2.9L straight 4 cyl. 2007 and later

2.0L, 2.2L & 2.4L 4 cylinder 2005 and later.

6.0L V-8 2005 and later, 7.0L V-8 2006 and later LS two engines.



**PartNumber 64700**

1999 and later GEN III

4.8L V-8, 5.3L V-8 and 6.0L V-8 trucks and SUV's.



## G.M. HARMONIC DAMPER HOLDING TOOL

**Camaro, Corvette, Firebird and Trans Am**

This holding tool has been developed to aid in the removal and installation of the crank bolt on LS one Gen III engines. These damper pulleys need a special tool to hold the pulley stationary for the center bolt to be removed. The bolt is extremely tight and without the #62800, removal is extremely difficult at best. In replacing the center bolt after installation of the pulley, factory specifications require 240 pounds of torque to seat the pulley properly. This tool allows the factory torque to be attained.



**Part Number 62800**

Works with the following engines:  
**1997-2004 LS one Gen III 5.7L V-8**



## SPECIAL GM SUPER DUTY 12 & 6 POINT 2 1/8" OFFSET OXYGEN SENSOR WRENCH

This unique wrench has been developed for use on the LT1 Gen II 5.7L HO MPFIV-8 found in the 1992 and later Chevrolet Corvette, 1993 and later Camaro, and 1993 and later Pontiac Firebird/Trans Am. Additional applications include the 1989 and later Chevrolet Corvette ZR1 with the LT5 5.7L DOHC SFI V-8 as well as other vehicles.

**PATENT PENDING**

**Part Number  
93750A**



## NARROW ACCESS VALVE STEM SEAL REMOVAL PLIERS & SPARK PLUG BOOT PULLER

These pliers have been developed to remove the valve stem seals which are used on most overhead camshaft engines which includes 4 valve per cylinder engines that have very narrow access to the valve stem seal due to the design of the heads. These pliers feature "gripping" serrations in the tip allowing them to grasp both original equipment and aftermarket seals regardless of their configuration.

**Part Number 92350**



**Part Number  
90820**

## GM 13.5mm OCTAGON A/C PORT SOCKET

**For Use on High Pressure Side Test Port Valves**

This unique tool provides for easy removal and installation of G.M 13.5mm high pressure side air conditioning service ports. These test ports are difficult to remove in that they are 13.5mm and octagonal in configuration which is not a standard socket size. This socket has a 3/8 inch square drive and comes in a black finish. Current applications begin with General Motors 1991 A, F and W platforms.



# ••GM••CHRYSLER••DODGE••FORD••

## UNIVERSAL GM / CHRYSLER HARMONIC DAMPER PULLEY PULLER

This unique tool has been developed to aid in the removal of the harmonic damper pulleys found on many Chrysler, and G.M. engines. This pulley is hard to access and remove due to space limitations in and around the engine compartment. In most cases this compact tool eliminates the need of a technician to go through the time consuming process of first removing the radiator or other components before being able to remove the pulley. This low profile puller has been designed for use on the following automobiles, SUV's, vans & pickups:

**Chrysler:** 1990 & later vans with 3.3L V-6; 1993-1997 automobiles with 3.3L & 3.5L V-6; 1994 & later vans with 3.8L V-6 ; 1994 & later pickups with 8.0L V-10 ; 1995 & later automobiles with 2.0L 4 Cyl, 2.4L 4 Cyl & 2.5L V-6 1998 & later automobiles with 2.7L DOHC V-6, 3.2L SOHC V-6 & 3.5L SOHC V-6 ; 1998 and later 4.7L V-8, 2004 and later 5.7L V-8 Hemi and 6.1L V8 Hemi.

**G.M.** 1997 & later Gen III 5.7L V-8, which includes Camaro, Corvette, Firebird and Trans-AM 2000 and later Gen III trucks & SUV's with 4.8L V-8, 5.3L V-8, 6.0L V-8 and 8.1L V-8. **GM 4.2L Straight 6 cyl.** in Chevy Trailblazer 2003 and later, GMC Envoy 2003 and later, Olds Bravada 2003 and later also Buick Rainier 2004 and later; **3.5L Straight 5 cyl.** in Chevy Colorado 2004-2006, GMC Canyon 2004-2006; and **3.7L straight 5 cyl.** 2007 and later **2.8L Straight 4 Cyl.** in Chevy Colorado 2005-2006 also GMC Canyon 2005-2006 and **2.9L straight 4 cyl** 2007 & later. **GM 3.5L V-6** 2004 and later, **3.9L V-6** 2006 and later.

**Hummer H3** 3.5L straight 5 cyl. 2006 and later and 3.7L straight 5 cyl. 2007 & later

US PATENT D561544S

**Cadillac** 1988-1992 4.5L V-8, 1991-1995 4.9L V-8, 1993 & later 4.6L V-8, 2002-2006 6.0L V8, 2007 and later 6.2L V8

**Mitsubishi** Eclipse 1995-1999 2.0L DOHC non-turbo.

**Oldsmobile** 1995-2004 4.0L V-8.

### Universal update Kit #64910

Update any version of the #97400 or other brands to the new applications of the #64900.  
(The update kit includes three legs and 6.5" rod)



Part Number  
64900



## CHRYSLER CRANKSHAFT PULLEY PULLER AND INSTALLER TOOL



This specialty Puller/Installer is designed to facilitate easy removal and installation of the crankshaft pulley on all 1981-1994 2.2 liter engines and 1986-1994 2.5 liter engines. In operation, the universal hole pattern allows for adaptation to early four bolt or the later model five bolt configuration.

Part Number 92100



## CHRYSLER HARMONIC DAMPER PULLEY HOLDING TOOL



This unique tool has been developed to aid in the removal and installation of the crank bolt on most Chrysler engines. In operation this tool holds the harmonic damper pulley from rotating with three pins. The tool has a 1/2" square drive hole for use with a breaker bar or ratchet.

This holding tool works with the following engines: 1990 & later vans with 3.3L, 1993-1997 autos with 3.3L & 3.5L, 1994 & later vans with 3.8L, 1998 & later autos with 2.7L, 3.2L & 3.5L.



Part Number  
98450

## CHRYSLER, FORD & LINCOLN/MERCURY FUEL & AIR CONDITIONING LINE COUPLING RELEASE TOOLS FOR 5/16, 3/8, 1/2, & 5/8 LINES

These unique tools have been developed for use in disconnecting the fuel and air conditioning line couplers found on most late model automobiles. These special quick connect couplers must be disconnected whenever the intake or A/C System is removed. In operation, this tool closes around the line and then, with plenty of leverage from grips, is popped into the coupler, releasing the coupler's grip on the line.



Part Number 90550  
5/16" & 3/8" set  
Part Number 90560  
1/2" & 5/8" set

Part Number 90550-1 5/16"  
Part Number 90550-2 3/8"  
Part Number 90560-1 1/2"  
Part Number 90560-2 5/8"



FLAT ACCESS, USED ON  
TRUCK CHASSIS FUEL FILTERS

Part Number 94570 Part Number 94570-1 5/16"  
Part Number 94570-2 3/8"

# CHRYSLER • DODGE • FORD • PLYMOUTH

## 24 mm FLARE NUT WRENCH CUMMINS DIESEL ENGINE COMMON RAIL INJECTION



Part Number 66150

This special 24 mm flare nut type wrench will slide back into the recessed area of the cylinder head where the fuel line retainer screws into the head. Without this special depth and angle flare nut wrench, you cannot hold the 24 mm retainer in place while you loosen the 19 mm coupler to the high-pressure fuel lines. This tool is special for the Cummins common fuel rail setup on 5.9L 2003 and later, 6.7L 2007 & later. These Cummins 5.9L & 6.7L diesels can be found in Dodge trucks starting in 2003 and other trucks using the Cummins 5.9L & 6.7L diesels with a common fuel rail.



## DODGE & JEEP FAN CLUTCH WRENCHES



Part Number  
99800

**#61600** wrench was developed to remove the DODGE & JEEP fan clutch assemblies where conventional wrenches are too thick to fit properly. By using SP TOOL's universal wrench **#61600** with **#95210** the professional technician has the ability to service the following vehicles. The gas and diesel applications include Dodge Ram and Dakota Pick Ups, Ram Vans, Ram Wagons with the following engines; 3.9 Liter V-6, 5.2 Liter V-8, 5.9 Liter V-8 and 8.0 Liter V-10, 1992-1997. Jeep Grand Cherokee 5.2 Liter V-8 1993-1997. Dodge Diesel 5.9 Liter 6 Cyl 1988 and Later.

**#99800** is used in conjunction with **#95210** to loosen and tighten the fan clutch on water pumps in later years, the pulleys are pressed on and pins in the **#99800** are inserted into the pulley to hold the water pump stationary for fan clutch removal and replacement.

This tool is used on vehicles using pressed on pulleys on the following applications:

Chrysler, 3.7 liter V-6, 3.9 liter V-6, 4.7 liter V-8, 5.2 liter V-8, 5.9 liter V-8, 8.0 liter V-10 1998 and later. (*Chrysler use the 2 pin side of the tool*).

Chrysler engines using factory replacement water pumps for the following engines; 3.9 liter V-6, 5.2 liter V-8, 5.9 liter V-8 1993 and later also, 8.0 liter V-10 1997 and later.

Part  
Number  
61600



U.S. PATENT 6,912,936

## CHRYSLER & SATURN UNIVERSAL OHC VALVE SPRING COMPRESSOR

This universal valve spring compressor removes and installs the valve springs with the cylinder head still on the engine and in the car or with the cylinder head removed. The multipoint adjustable base of this tool bolts securely to the head. The lever has 16 multiple adjustment positions and is securely attached to the bar with a positive acting slider. The lever also has a 3/8" square drive and pivots from the bar thus compressing the spring. Quick removal and installation of the spring retaining keepers is then easily accomplished through the large openings on both sides of the compression tube. This quality tool comes complete with an "easy grip" handle and is packaged in a blow molded box. *Not for 5 valve heads.*

Part Number 91400A



PATENT PENDING



# 90270\*

## CHRYSLER, DODGE, JEEP & PLYMOUTH SERPENTINE BELT TENSIONER TOOLS

1/2" square style for 1987 and later mini vans with the Mitsubishi 3.0 liter V6 engine.

1/2" square combination for:

2000 and later Mini vans 3.0L, 3.3L & 3.8L with V-6 engines.  
2000 and later Neons.

\* *There may be additional applications for other*

#63200\*



## DODGE 41mm TRANSMISSION LOCK NUT WRENCH

Part Number 89750

This specialty wrench was designed for Dodge and Mitsubishi 4x4 trucks with the KM145 transmission. This includes the 1984 and later Dodge Ram D-50 pick-up, Dodge Raider, Mitsubishi Montero, and Mitsubishi MAX pick-up.





## FORD CHRYSLER SPARK PLUG BOOT REMOVER

This unique specialty tool has been designed to easily remove "ripped" and "stuck on" spark plug boots where there is no access to grab the boot for removal. In usage, this tool goes down in the confined space of the spark plug hole and with hand pressure separates the stuck on piece of rubber boot from the porcelain part of the plug. This spark plug boot tool then slides out with the damaged boot leaving the spark plug exposed and easily removed. Made from quality heat treated steel, this tool comes in a High Tech black finish.

Designed specifically for these engines:

### Ford

4.6L V8 2 valve heads 1997-1999  
4.6L V8 2 valve heads 2000 and later  
4.6L V8 3 valve heads 2007 and later  
5.4L V8 2 valve heads 1997-2004  
5.4L V8 3 valve heads 2005 and later  
6.8L V10 2 valve heads 1999-2008  
6.8L V10 3 valve heads 2008 and later

### Chrysler

3.7L V6 2 valve heads 2005 and later  
5.7L V8 Hemi 2 valve heads 2004 and later



Part Number  
68450



Works on most other spark plugs with a porcelain diameter smaller than 0.432 of an inch.

## CHRYSLER & FORD HEATER HOSE DISCONNECT TOOL

"For Use on Front and Rear Heater Cores"



This specially designed tool reaches into the inaccessible area next to the firewall on 1998 & later Ford Aerostar Vans and for rear heater cores. This tool easily removes heater hoses with 3/4" or 5/8" quick disconnect couplings. These quick disconnect couplings are connected to the heater cores on; 1987 & later Chrysler Town & Country, Dodge Caravan, and Plymouth Voyager, also 1990 & later Econoline Vans.

Part Number  
93440



## FORD/LINCOLN & MERCURY FAN CLUTCH WRENCHES

These wrenches are used to remove the fan clutch assemblies where conventional wrenches are too thick to fit properly.

Part Number 61200 set (61600 & 95210)

**Gas applications,** 4.9L E series 1984-1991, 4.9L F series 1984-1992, 2.8 L Bronco II, Ranger 1984-1985, 2.9L Ranger 1986-1992, 3.0L Aerostar 1986-1988, 4.0L OHV Aerostar and Ranger 1990 and later, 4.0L OHV Explorer 1991 and later, 4.0L OHV Mazda Navajo 1991-1994, 4.0L OHV Mazda B4000 1995 and later, 4.0L V-6 SOHC Explorer 1997 & later, Mountaineer 1998 & later. 1987 and later F series trucks and E series Vans 5.0L, 5.8L and 7.5L V-8. 1996-2001 Explorer 5.0L V-8, 1996 and later Crown Victoria/Grand Marquis, Lincoln Town Car 4.6L V-8, 1997 and later F150 pickup trucks, vans & Expedition with 4.2L V-6, 4.6L V-8, 5.4L V-8, 6.8L V-10; 1997-2001 Mercury Mountaineer 5.0L V-8, 1998 and later Lincoln Navigator 5.4L V-8.

**Diesel applications,** 6.9 L V-8 diesel 1983-1986, 7.3 L V-8 diesel 1987-2003, 6.0L V-8 diesel 2003 and later.

**Part Number 95260** 40mm use with **61600** for 1992-1996 Econoline Vans, 1993-1996 F Series Pickup trucks, with 4.9 L engines. Developed with a larger head size and heat treated to maintain dimensional stability due to its thin design.

**Part Number 61800** 48 mm use with **#61600** for applications that need extra leverage for diesel engines.

U.S. PATENT 6,912,936



Part Number 61600  
Universal pulley holder



Part Number 95210  
48mm & 36mm Open  
End Combination



Part Number 95260  
40mm Open End



Part Number 61800  
48 mm Heavy Duty

See page 2 & 3 for Fan Clutch Wrench kits.



## FORD TAURUS / MERCURY SABLE STATION WAGONS & LINCOLN CONTINENTAL REAR TOE ADJUSTMENT WRENCH



Part Number 90650



These unique wrenches have been developed to allow for quick and easy rear toe adjustments on Ford Taurus & Mercury Sable Station Wagons also Lincoln Continentals. The #90650 is held by a long 1/2 inch drive extension which enables the Technician, in most cases, to easily adjust the vehicle's toe alignment from outside the cramped suspension, wheel and tire area on 1986-1995 Station Wagons. The #97650 is used on Ford Taurus & Mercury Sable Station Wagons 1996 and later also Lincoln Continental 1995 & later. These two tools are heat treated for long term service to the professional technician.



Part Number  
97650



## FORD & MERCURY REAR TOE ADJUSTMENT WRENCH "Taurus/Sable and Tempo/Topaz"



This specialty wrench is used on 1986 and later sedans. Both open ends have been designed with a 36 degree angle which eliminates any problem with clearance in adjusting the rear toe. Adjustments can be made while the vehicle sits on an alignment machine. This tool is made from quality steel with a high tech black finish.

Part Number 94750



## FORD/LINCOLN & MERCURY SERPENTINE BELT TENSIONER TOOLS

**90250:** 3/8 inch slot style, FORD/MERCURY 1988- and later Tempo/Topaz with 2.3 L engines and 1986-1991 Taurus/Sable With 2.5 L engines.



These tools are designed to reach down through the engine compartment in areas that are not easily accessible with standard tools or "universal" belt tensioner tools. Many times engine area accessories and frame components (alternators, drive belts, fluid containers, shock towers and fender wells) inhibit the direct access with out removing components or needing two technicians to release the belt tensioner. **For belt installation assistance, see "Belt It" #94170 on Page 4.**

\* There may be additional applications for other vehicles



**90270:** 1/2" square style for all vehicles using 1/2" square style tensioners. Including Crown Victoria, Grand Marquis, Lincoln Town Car all with 4.6L, also Cougar & Thunderbird with 3.8L & 4.6L, Expedition, Navigator, pickups and vans with 4.2L V-6, 4.6L V-8, 5.4L V-8 & 6.8L V-10.

## FORD & MERCURY STRUT CARTRIDGE SLOT SOCKET "For Use On Most Mustangs, T-Birds, Cougars and Capris"



Part Number  
90770  
Hand Use  
Only

This specialty socket has been designed to aid in the installation and removal of the front strut cartridge/insert used on all 1979 thru 1993 Ford Mustangs and 1979-1986 Mercury Capris. In operation, this unique socket fits snugly over the end of the strut cartridge/insert, holding it firmly from turning with a thick, internally designed blade. Made from heat treated steel.

## CUMMINS•DETROIT DIESEL•CATERPILLAR 3/4 INCH FUEL INJECTION FLARE NUT SOCKET

Part Number 99100

The area surrounding the injection pumps on later Cummins model 4 valve ISC 8.3 liter and ISB 5.9 liter engines, Detroit Diesel series 50 & Caterpillar engines are very difficult to access when removing the fuel supply lines. This specialty socket has been designed with a custom slim configuration and a 3/8" square drive to fit into this confined area.

This unique 3/4" Fuel Injection Flare Nut Socket gives the technician the ability to access and remove fuel pump lines with little effort. Used with a ratchet and extension, the socket slides along the fuel line onto the flare nut which now can be loosened for pump removal. The Flare Nut Socket is also used to tighten the fuel line nuts when the injection pump is reattached to the fuel lines.

Not for ISM engines



## CUMMINS ENGINE ROTATING TOOL - VARIABLE DEPTH

This special 3/8" drive barring tool is used when making valve adjustments or pump settings and is made with a two piece sleeve. The two piece sleeve allows proper contact with the flywheel when the flywheel is at different depths from the hole where the tool is inserted. For use on 1987 and newer Cummins B & C series engines and J.I. Case 3.9L, 5.9L, 6.7L and 8.3L diesel engines. Most of the popular Dodge diesel pickup trucks require the use of this tool.

Part Number 95650A

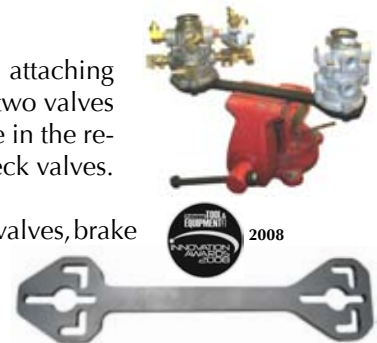


## BENDIX BRAKE VALVE HOLDER

This specially designed holding tool was manufactured to hold two treadle valves so that the attaching air pressure fittings can be exchanged from the old valve to the new valve. When holding the two valves side by side, the same exact angle of the pressure fitting can be attained. This saves a lot of time in the re-installation process. Some of these valves can have up to eight or more pressure lines with check valves. This quality tool comes with attaching hardware.

These brake / treadle valves include: Pressure protection valves (safety valves), quick release valves, brake (foot) valves, control valves, relay valves, spring brake control valves, trailer brake control valves, ratio valves, proportioning valves and many other types of valves.

Part Number 67400



## HEAVY DUTY 36 mm and 48 mm FAN CLUTCH WRENCHES

Designed with additional strength

36 mm, Part Number 88550

48 mm, Part Number 61800

These specialty fan clutch wrenches are the most popular sizes for use on 36mm and 48 mm viscous fan clutch assemblies found on many engines. This includes Dodge trucks with the Cummins B series diesel engines. [See page 2 & 3 for Fan Clutch Wrench kits.](#)



Part Number  
89100

## 10mm & 13mm SPECIAL OFFSET WRENCHES

For Cummins Injection Pump & Idle Lock Nuts

13mm Wrench

Part  
Number  
89150

10mm Wrench

These specialty offset wrenches have been designed to remove and install the 10mm and 13mm injection pump mounting bolts and idle lock nuts found on Cummins B series 5.9L diesel engines used in Dodge trucks. These tools have also been found to be useful in many other applications where these size fasteners are in a confined area.



## 14mm HEX BIT BRAKE TOOL

For Use on Ford 6000, 7000 & 8000 CF Series Trucks

Part Number 90150



This unique tool has been developed to aid in the removal and installation of front disc brake calipers found on most 1984 and later Ford 6000, 7000 & 8000 CF series trucks. The use of this tool allows for quick and easy removal of the caliper without disassembling the front axle and steering arm assembly.

## FORD TRUCK REAR BRAKE ADJUSTING TOOL

For Use On Single Axle Lucas-Girling Brakes

Part Number 90700A



This tool has been designed for easy brake shoe adjustment on most 1984 and later F-600 and larger Ford trucks and buses which come with a single rear axle equipped with Lucas-Girling hydraulic brakes. This tool has been designed with unique rounded blade ends to work in a confined area.

PATENT PENDING

## HONDA / ACURA BUSHING X-TRACTOR™ "REMOVAL AND INSTALLATION TOOL"



- Easily and quickly remove and install trailing arm bushings in 15 minutes per side versus the factory "book" time of 1.8 hours per side.
- No removing the trailing arm from the vehicle and using a hydraulic press.
- No need to disconnect brake parts such as calipers, rotors, brake shoes, brake fluid lines and emergency brake cables.

Works on:

**Honda:** Civic 1988-2000, CRV 1997-2001  
CRX 1988-1991, Del Sol 1993-1997

**Acura:** Integra 1990-2001

Part Number 65130



2009

Part Number  
65120  
1990-1993  
Acura update

## HONDA AND ACURA CAMSHAFT AND BALANCE SHAFT SEAL INSTALLER

This unique tool has been developed to aid in the installation of balance and camshaft seals for most Honda and Acura engines. This tool allows the technician to properly align and press the seal into the seat without the removal of major engine components.

This seal installer has been designed for use on the following

Automobiles and SUV's

Camshaft

Balance

**HONDA**

seal

shaft seal

Accord 2.2L 4 cylinder

90-97

•

•

2.3L 4 cylinder

98-02

•

•

Odyssey

2.2L 4 cylinder

95-97

•

•

2.3L 4 cylinder

98

•

•

Prelude

2.2L 4 cylinder

92-01

•

•

2.3L 4 cylinder

93-96

•

•

CRV

2.0L 4 cylinder

97-01

•

**ACURA**

CL

2.2L 4 cylinder

97

•

•

2.3L 4 cylinder

98-99

•

•

Integra

1.6L 4 cylinder

90-92

•

1.7L 4 cylinder

92-93

•

1.8L 4 cylinder

93-01

•



Part Number  
60170



## HONDA AND ACURA 4" OFFSET

### HARMONIC DAMPER PULLEY HOLDING TOOL (50mm)

This unique 50mm tool has been developed to aid in the removal and installation of the crank bolt on most Honda and Acura engines. In operation with the use of a 1/2" breaker bar or ratchet this tool holds the harmonic damper pulley from rotating when removing the pulley bolt. There is a hole in the center of the tool to allow the use of a socket and extension to break loose or tighten the pulley bolt. The holding tool works with the following engines:

**HONDA**

|               |                 |            |
|---------------|-----------------|------------|
| Accord        | 2.2L 4 cylinder | 90-97      |
|               | 2.7L V-6        | 96-97      |
|               | 2.3L 4 cylinder | 98-02      |
|               | 2.4L 4 cylinder | 03 & later |
|               | 3.0L V-6        | 98-07      |
|               | 3.5L V-6        | 08 & later |
| Accord Hybrid | 3.0L V-6        | 05-07      |
| Civic         | 1.6L 4 cylinder | 92-00      |
|               | 1.7L 4 cylinder | 01-05      |
|               | 1.8L 4 cylinder | 06 & later |
|               | 2.0L 4 cylinder | 03 & later |
| Civic Hybrid  | 1.3L 4 cylinder | 03 & later |
| CRV           | 2.0L 4 cylinder | 97-01      |
|               | 2.4L 4 cylinder | 02 & later |
| Del Sol       | 1.6L 4 cylinder | 93-97      |
| Element       | 2.4L 4 cylinder | 03 & later |
| Fit           | 1.5L 4 cylinder | 07 & later |
| Insight       | 1.0L 3 cylinder | 00 & later |
| Odyssey       | 2.2L 4 cylinder | 95-97      |
|               | 2.3L 4 cylinder | 98         |
|               | 3.5L V-6        | 99 & later |
| Pilot         | 3.5L V-6        | 03 & later |

Prelude

2.2L 4 cylinder

92-01

2.3L 4 cylinder

92-96

Ridgeline

3.5L V-6

06 & later

S2000

2.0L 4 cylinder

00-03

2.2L 4 cylinder

04 & later

**ACURA**

CL

2.2L 4 cylinder

97

3.0L V-6

97-99

2.3L 4 cylinder

98-99

3.2L V-6

00-03

Integra

1.6L 4 cylinder

90-92

1.7L 4 cylinder

92-93

1.8L 4 cylinder

93-01

Legend

3.2L V-6

91-95

MDX

3.5L V-6

01-06

3.7L V-6

07 & later

RDX

2.3L 4 cylinder turbo

07 & later

RL

3.5L V-6

96 & later

RSX

2.0L 4 cylinder

02-07

TL

3.2L V-6

97 & later

3.5L V-6

07 & later

TSX

2.4L 4 cylinder

04 & later

Part Number  
60100A



2007

## HONDA & ACURA SERPENTINE BELT TENSIONER TOOL

Part Number  
68170

This tool was designed to reach down through the engine compartment in areas that are not easily accessible with standard tools or "universal" belt tensioner tools. The #68170 works with Acura 3.0CL 3.0L V-6 1997 and later also, Honda Accord 3.0L V-6 1998 and later. Does not work with Civics 2006 and later.





## HONDA S2000 CLUTCH ALIGNMENT TOOL



This tool was developed to aid in the alignment of the clutch disc to the flywheel and cover. Made from heat treated chromalloy steel, this tool will last. It is very accurate for perfect alignment. The knurled end allows you to remove the tool very easily.

This tool works on:  
Honda S 2000, 2000 and later.

Part Number 68350



## HONDA / ACURA AIR HAMMER OR STRIKE SHIFT LINKAGE PIN R&R TOOLS



Part Number 65650  
Air Hammer



Part Number 64550  
Strike tool

Each version of these tools allow the technician to accurately remove and install the shift linkage pin on vehicles using shift rod linkage. The air hammer version (#65650) can speed removal and installation and has a depth stop in its design for proper pin installation. The strike tool (#64550) features a knurled handle for good grip, and a "guide step" at the end of the tool for precision removal and installation of the shift linkage pin. Models: **Honda** CRX 1984-1991; Civic 1986-2002 **Acura** Integra 1987-2001



## HONDA•HYUNDAI•MAZDA•MITSUBISHI•NISSAN•TOYOTA UNIVERSAL OHC VALVE SPRING COMPRESSOR

"FOR USE ON MOST FOREIGN & DOMESTIC ENGINES"

This universal valve spring compressor has been developed to remove and install the valve springs with the cylinder head still on the engine and in the car or with the cylinder head removed. The multipoint adjustable base of this tool bolts securely to the head. The newly developed lever has 16 multiple adjustment positions and is securely attached to the bar with a positive acting slider. The lever also has a 3/8" square drive and pivots from the bar thus compressing the spring. Quick removal and installation of the spring retaining keepers is then easily accomplished through the large openings on both sides of the compression tube.

Part Number 91400A\*



PATENT  
PENDING

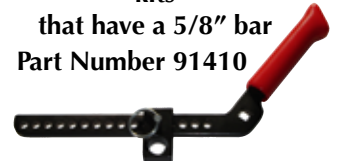
\* There may be  
additional applications  
for other vehicles  
Not for 5 valve heads



### UPDATE KIT

Updates #91400 or similar  
kits

that have a 5/8" bar  
Part Number 91410



The update kit includes: Handle,  
slider and two detent clevis pins.

## HONDA & ACURA RADIATOR DRAIN PLUG SOCKET

Includes '85 & later Honda Automatic Trans Dipstick and Filler Cap "For Use On Most Import Automobiles"

This specialty socket has been designed to open and close most radiator drain plugs that have thumb wings. Radiator plugs, in many cases, are located in confined areas enclosed by cowl sheet metal making access for turning difficult. In operation, this unique socket snaps on a 3/8" square drive extension allowing it to reach into confined areas. The socket has a double slotted end that captures the thumb wings in order to turn the drain plug open or closed. For use on most import and domestic cars, this tool is made from quality alloy steel and comes in a Schley high tech black finish.



Part Number 91900

## HONDA & ACURA FUEL FILTER BANJO BOLT SOCKET



Part Number  
89800

This specialty socket is for use on most 1986 and later fuel injected Honda and Acura automobiles. It has been designed to easily remove and install the specialty shaped banjo bolt used to attach the fuel line to the fuel filter. In operation, this socket fits completely over the head of this oddly shaped banjo bolt for 360 degrees of contact. This allows a firm grip on this "often very tight" banjo bolt and eliminates the possibility of stripping the minimal flats provided on this O.E. fitting when using a 17mm open end wrench.





## LEXUS & TOYOTA HARMONIC DAMPER PULLEY HOLDING TOOL



This harmonic damper pulley holding tool has been developed to aid in the removal and installation of the crank bolt on most Lexus & Toyota automobiles, trucks and SUV's engines.

These damper pulleys need a special tool to hold the pulley stationary for the center bolt to be removed. The bolt is extremely tight and without the #64300, removal is extremely difficult at best without removing the radiator or other components. This tool allows the factory torque to be attained without using chain wrenches or use of impact.

This holding tool works with the following engines:

**Lexus 1990 and later:** 3.0 L6, 3.0 V6, 3.3 V6, 4.0 V8, 4.3 V8, 4.7 V8.

**Toyota 1992 and later:** 3.0 V6, 3.3 V6, 4.0 V6, 4.7 V8

*Excludes 3.0L 4 Runner 1992-1996*

**4 cyl:** 1983-1995 22RE, 1995-2004 2RZ & 1995-2004 3RZ



2006



**Part Number 64300**



## TOYOTA HARMONIC DAMPER HOLDING TOOL

These pulleys need a special tool to hold the pulley stationary for the center bolt to be removed.

Works on: 3.4L V6 in 4 Runner 1996-2002, T100 pickup 1996-1998, Tacoma pickup 1996-2004, Tundra pickup 2000-2004

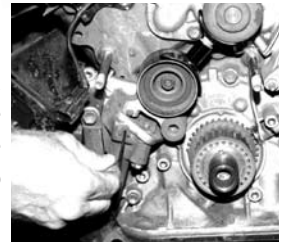
**Part Number 64400**



## TOYOTA / LEXUS TIMING BELT TENSIONER



Replacing the timing belts on 5VZ-FE, 3.4L V-6 and 4.0L, 4.3L, 4.7L V-8 engines is a very difficult task. The professional technician has no means to effectively compress the hydraulically activated belt tensioner without spending additional time removing engine components. In operation this tool is placed between the belt tensioner and the water pump pulleys. Then by slowly turning the tool's inner nut, pressure is applied to the hydraulic tensioner pushing it into a position that allows the technician to place the supplied locking pin into the hydraulic piston push rod. Once the locking pin is in place the tensioner compressor can be removed and the timing belt placed on all appropriate pulleys. After the belt is placed on the engine pulleys, the locking pin can be removed to return tension on the timing belt.



**Part Number 97300**



**Part Number 91880**

## TOYOTA TIMING BELT PULLEY PULLER

This handy tool is designed to remove the timing belt pulley from the crankshaft on Toyota 5M-GE Engines. These engines are found in 1982 and later Supras and 1983 and later Cressidas. This puller easily removes the pulley without damaging its outer ring and also eliminates the need to remove the radiator as is necessary when attempting to adapt a standard gear puller.



## HONDA, NISSAN & TOYOTA VALVE ADJUSTMENT TOOLS

**Part Number 88800** 12mm Jam Nut **Part Number 88950** 10mm Jam Nut

(Includes the VTEC engine")

This Valve Adjustment Tool has been designed for a wide variety of cars with 10mm and 12mm jam nut valve adjustment screws. This two in one tool features a window in its socket so the technician can see the position of the screwdriver blade holding the adjustment screw as the jam nut is tightened. This visual contact in addition to the feel of holding the screwdriver allows for quicker valve adjustment times as the technician can hold the adjustment screw exactly where he wants it. The unique handle pivots from one side to the other, so the window is always visible.



## 39 mm 12 POINT SOCKET FOR TOYOTA/LEXUS

This 39 mm was released to help the technician remove and install 12 point axle nuts on 2007 and newer Tundra and Sequoia trucks / SUV's. Our 12 point forged 39 mm impact socket with 1/2" drive is the strongest in the field with the torque requirements of this application our #68960 will do the task everytime without breakage.

AVAILABLE 12-09

Works on:

**TOYOTA:** Tundra pickup 4X4 2007 & later  
Sequoia SUV 2008 & later

**LEXUS:** LX570 SUV 2008 & later  
LS460 2007 and later  
LS469H 2007 and later  
LS600H 2008 & later.



Part Number 68960



## MAZDA, MITSUBISHI, NISSAN & TOYOTA UNIVERSAL RADIATOR DRAIN PLUG SOCKET

"For Use On Most Import Automobiles"

Part Number 91900



This specialty socket has been designed to open and close most radiator drain plugs that have thumb wings. Radiator plugs, in many cases, are located in confined areas enclosed by cowl sheet metal making access for turning difficult. In operation, this unique socket snaps on a 3/8" square drive extension allowing it to reach into confined areas. The socket has a double slotted end that captures the thumb wings in order to turn the drain plug open or closed. For use on most import and domestic cars, this tool is made from quality alloy steel and comes in a SP High Tech black finish.



## TOYOTA /LEXUS VALVE ADJUSTING TOOLS

For Overhead Camshaft Engines Using Spacer Shims!



This unique tool has been designed to allow for easy valve adjustment on most Toyota's overhead camshaft engines using spacer shims for valve adjustment. In operation, the tip of the pliers pushes between the spacer shim and the camshaft as the pliers are squeezed close. This action then moves the shim and its valve lifter down away from the camshaft lobe. In this down position the separate wedge tool is placed between the valve lifter ledge and the camshaft. This wedge tool then maintains a gap between the shim and the camshaft as the pliers are removed. The spacer shim can then be removed through this gap and replaced with one of the correct thickness. Made from quality heat treated alloy steel, this tool (#88250) come as a set with pliers and spacer wedge. The #88250 does not work with Land Cruiser 1993-1997 and Lexus LX450 1996-1997.



Part Number 88250

Complete set for Toyota/Lexus  
(Includes Pliers & Wedge 6mm & 7mm)

Part Number 88251

Replacement Spacer Wedge (6mm & 7mm)

Part Number 88250-6

Replacement Pliers

## UNIVERSAL CAMSHAFT PULLEY HOLDING TOOL

For use on Nissans, Toyotas and other OHC engines

Part Number 96800



This wrench is designed with grooved pins to hold the camshaft pulley stationary while loosening and tightening the center shaft bolt. While useful on most Asian overhead cam engines, it is most needed on transverse mounted V6 engines such as the VG30 used in Nissan Maximas, as well as, the 3VZFE and 1MZFE engines used in Toyota Camrys. The rear pulleys on these models are in very close proximity to the shock tower making removal and replacement difficult without this locking device.



## SHIELDED OXYGEN AND AIR FUEL SENSOR SOCKET

**Forged • 6 Point • Super Strong**

This unique tool has been designed to R&R "can" type shielded oxygen sensors and air fuel sensors currently found on later models vehicles.

The depth and outer diameter of the socket are critical features enabling it to fit in the limited space of the heat shield.

For maximum strength this 6 point tool is forged steel and comes in the SP High Tech black finish. The "B" model will work on all oxygen and air fuel sensors that are shielded including:

|                       |                      |                         |
|-----------------------|----------------------|-------------------------|
| Toyota 2003 and later | Honda 2006 and later | Hyundai 2006 and later  |
| Lexus 2006 and later  | Acura 2007 and later | Kia 2006 and later      |
|                       | Mazda 2006 and later | Nissan 2007 and later   |
|                       |                      | Infiniti 2007 and later |

**PATENT PENDING**

**Part Number  
66750B**



## TOYOTA • LEXUS V6 CAM SEAL R&R TOOL

This unique tool with it's patent pending press and pull cup design allows the technician proper camshaft seal removal and installation on most Toyota and Lexus V6 engines. With this new design for removing cam seals, the conventional and difficult pick method is no longer necessary.

Once the cam gears are removed, screw in the threaded press rod. Insert the cup, washer and drive nut. Turn the nut until the cup presses all the way through the seal. You will feel the cup free-up behind the seal. Now remove the press rod including the nut and washer and thread the large stud into the cup and turn it until the cup pulls the seal out.

A second cup is used to press in the cam seal utilizing the threaded press rod.

Works on:

Toyota 1996 & later 3.0L & 3.3L V6

Lexus 1990 and later 3.0L V6 and 3.3L V6



**Part Number 65510**

Patent Pending

## MAZDA, NISSAN, TOYOTA / LEXUS CAM SEAL INSTALLER

**Part Number 63800**



This tool is designed to install the cam seals in 4 & 6 cylinder engines for Mazda, Nissan & Toyota/Lexus engines that have 10 & 12 mm X 1.25 cam bolts. These engines are mounted transversely which puts the camshaft end in very close proximity to the shock tower making replacement of the cam seal extremely difficult using conventional methods. Screw the threaded rod into the cam end, slide the body over the rod against the seal and press in the seal using the nut provided. This tool



## TOYOTA / LEXUS FRONT AXLE LOCK NUT REMOVER KIT

This unique tool combines a 30 mm, 12 point special depth impact 1/2 inch drive socket with a lock nut release tool to unlock the 30 mm axle nut on both front and rear wheel drive vehicles. The lock nut release tool has a patent pending unique angle that allows the technician to easily unlock the 30 mm axle nut.

Works on: Toyota: Avalon 2002 and later  
Camry 2002 and later  
Corolla 2003 and later  
Prius 2001 and later  
Sienna 2002 and later  
Solara 2004 and later

Lexus: ES300 2002-2003  
ES330 2004-2006  
ES350 2007 & later  
RX300 1999-2003  
RX330 2004-2006  
RX350 2007 & later

And other vehicles with 30 mm axle lock crush nuts.

**Part Number 65400 for Socket & Release tool**  
**Part Number 65410 Socket only**  
**Part Number 65420 Lock Nut Release tool**



**CAUTION  
WEAR SAFETY  
GOGGLES WHEN  
STRIKING.**



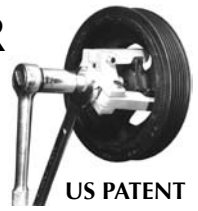
# •HYUNDAI•MAZDA•MITSUBISHI•SUBARU•



**Part Number  
64900**

## HARMONIC DAMPER PULLEY PULLER

This unique tool has been developed to aid in the removal of the harmonic damper pulleys found on Mitsubishi Eclipse 1995-1999 2.0L DOHC non-turbo and many Chrysler Corporation engines. This pulley is hard to access and remove due to space limitations in and around the engine compartment. This low profile puller has been designed for use on the Mitsubishi Eclipse 1995-1999 2.0L DOHC non-turbo. **See Page 12 for other applications.**



**US PATENT  
D561544S**

## MAZDA FAN CLUTCH WRENCHES

**Part Number 61200** Set (95210 & 61600) Navajo 4.0L OHV 6 cylinder 1991-1994, 4.0L OHV 6 cylinder Mazda B4000 1995 and later.

*There are additional applications for FORD vehicles, see page 14.*

**Part Number 95210**

**Part Number 61600**



**U.S. PATENT 6,912,936**

## MAZDA FUEL & AIR CONDITIONING LINE COUPLING RELEASE TOOLS FOR 5/16, 3/8, 1/2 & 5/8 LINES

These unique tools have been developed for use in disconnecting the fuel and air conditioning line couplers found on most late model automobiles. These special quick connect couplers must be disconnected whenever the intake or A/C System is removed. In operation, this tool closes around the line and then, with plenty of leverage from grips, is popped into the coupler, releasing the coupler's grip on the line.



**ANGLE TIP**

**Part Number 90550**  
5/16 & 3/8 inch set

**Part Number 90560**  
1/2 & 5/8 inch set

**Part Number 90550-1** 5/16 inch

**Part Number 90550-2** 3/8 inch

**Part Number 90560-1** 1/2 inch

**Part Number 90560-2** 5/8 inch



**FLAT ACCESS**

**Part Number 94570**  
5/16 & 3/8 inch set

**Part Number 94570-1** 5/16 inch  
**Part Number 94570-2** 3/8 inch



## MITSUBISHI 41mm TRANSMISSION LOCK NUT WRENCH

This wrench is used on Mitsubishi 4x4 trucks with the KM145 transmission. This includes the 1984 and later Montero and MAX pick-up. The wrench loosens the 41mm main shaft lock nut which is located in a confined area of the transmission which is firmly staked in position. Made from quality heat treated steel.

**Part Number 89750**



## MITSUBISHI / HYUNDAI / PLYMOUTH & EAGLE TENSION PULLEY SPANNER WRENCH

This tool allows for the easy adjustment of the camshaft spur belts having idler pulleys with pin holes. In operation, this spanner wrench grips the center of the idler pulley and rotates it around its off-center retaining bolt. This rotation then allows for camshaft spur belt tension adjustment. Made from heat treated alloy steel and a soft grip handle.

**Part Number  
98700**



## MITSUBISHI / CHRYSLER DOHC VALVE LIFTER REMOVAL TOOL



A special tool is needed to depress the valve spring for removal of the hydraulic valve lifters. The tool slides between the cam tower and the cam lobe over the valve spring retainer. By pulling up on the tool the valve spring is depressed and the hydraulic valve lifter can be removed. The tool is also used to replace the hydraulic valve lifter. The tool is used with both turbo and non-turbo in the following engines: 1.6 liter and 2.0 liter, 4 cylinder, 1989 and later, 3.0 liter 6 cylinder, 1991 and later, 3.5 liter 6 cylinder, 1995 & 1996.

**Part Number 99700**





## VOLVO TIMING BELT TENSIONER TOOL WITH 6 mm HEX ADJUSTER

On the 1998 and later Volvo engines the timing belt tensioner is located down near the bottom of the engine in a hard to reach area. This uniquely designed tool reaches down and rotates the 6 mm hex adjuster on the timing belt tensioner so that one technician can easily set the correct tension preload and tighten the lock down bolt. This unique tool works on all engines 1998 and later with the 6 mm Allen adjuster and includes:

- 4 cylinder, 1.9L
- 5 cylinder 2.3L, 2.4L & 2.5L
- 6 cylinder 2.8L & 2.9L



Part Number 63300



## VOLVO BOSCH DIESEL INJECTION TIMING INDICATOR TOOL



This tool allows for the accurate setting of the Bosch diesel fuel injection pump timing. The tool screws into the back of the injection pump giving a reading necessary for setting the correct pump timing. This quality tool comes complete with a dial indicator which reads in graduations of 0.01mm. This makes the timing easy to set as the timing has a range from 0.83mm to 1.15mm. For use on Volvo 1981-1986 Diesel and Turbo Diesel 6 cyl 2.4L engines.

*Also works with VW, Audi through 1992 and 1989-1994 Dodge 6 Cyl 5.9L Diesel*



Part Number 83300

## VOLVO UNIVERSAL OHC VALVE SPRING COMPRESSOR

This universal valve spring compressor has been developed to remove and install the valve springs with the cylinder head still on the engine and in the car or with the cylinder head removed. The multipoint adjustable base of this tool bolts securely to the head. The newly developed lever has 16 multiple adjustment positions and is securely attached to the bar with a positive acting slider. The lever also has a 3/8" square drive and pivots from the bar thus compressing the spring. Quick removal and installation of the spring retaining keepers is then easily accomplished through the large openings on both sides of the compression tube. This quality tool comes complete with an "easy grip" handle and is packaged in a blow molded box. Not for 5 valve engines.

**PATENT PENDING**



Part Number 91400A

## VOLVO SERPENTINE BELT TENSIONER TOOL

This tool was designed to reach in areas that are not easily accessible with standard tools or "universal" belt tensioner tools. Many times engine area accessories and frame components (alternators, drive belts, fluid containers, shock towers and fender wells) inhibit the direct access to release the belt tensioner.

14mm hex style for: **S40 2000-2002, V40 2000-2002, S60 2001-2002, S70 1999-2002, V70 1999-2002, V70XC 2001-2002, C70 2000-2002, S80 1999-2002.**

See also "Belt It" #94170A on Page

Part Number 68170



## FIAT & YUGO 12mm OIL DRAIN ALLEN WRENCH

Part Number 90830

This specialty wrench fits on Fiat & Yugo oil drain plugs with a 12mm hex. This tool was designed with plenty of leverage and a soft grip handle for ease in use. The tool is heat treated and comes with a black finish.



## SUBARU 12mm VALVE ADJUSTMENT WRENCH

Used on Subarus with 5mm square drive valve adjustment screws with a 12mm jam nut. This two in one tool features a window in its 12mm socket so the technician can see the position of the 5mm socket while it holds the adjustment screw as the 12mm jam nut is tightened. The unique handle pivots from one side to the other, so the window is always visible.



Part Number 89700

## BMW T-60 TORX BELT TENSIONER TOOL

This unique tool allows the technician to access the T60 belt tensioner found on BMW 135, 335, 535 and all other models using the N54 twin turbo straight 6 cylinder engine. The tensioner is in a confined area that a standard T60 socket has a hard time accessing. This unique wrench design allows the technician to loosen the spring pressure with minimal force. The #68200 wrench is designed to cut labor time by reducing the number of parts needed to be removed in order to gain clearance for the tensioner. Our tip design fits snugly in the tensioner so the wrench won't slip. Improved access, more leverage, snug fit and a way to save time makes this tool a must for all BMW technicians.



Part Number  
68200



## AUDI, BMW AND VW FAN CLUTCH WRENCHES

These uniquely designed tools are used in conjunction with #62100 to loosen and tighten the fan clutch on Audi, BMW and VW. The unique design of the #61600 works with all water pumps that have bolts holding the pulley on the pump. On later year model Audi A6 and VW passat water pump pulleys are pressed on and pins in the #63600 are inserted into the pulley to hold the water pump stationary for fan clutch removal and replacement.



Part Number  
62100

The 32 mm Fan Clutch Wrench #62100, works with #61600 on the following applications:

**Audi's** 1996 & Later (except pressed on pulleys, see below #63600)

**BMW** 3, 5, 6, 7, 8, X & Z series and used with #61600 (The #61600 works on all engines except the BMW 4.0L & 4.4L V-8 engines)

**VW's** 1998 and later (except pressed on pulleys, see below #63600)

U.S. PATENT  
6,912,936



Part Number  
61600

The 32 mm Fan Clutch Wrench #62100, works with #63600 on the following applications with pressed on water pump pulleys:

**Audi** A6 1996-2001 2.8 L, S4 2000-2002 2.7L, A6 2000-2004 2.7L, Allroad 2001-2005 2.7L

**VW** Passat 1998-2005 2.8 L



Part Number  
63600



## BMW "A" ARM THRUST BUSHING WRENCH

On 1988 and later, 5 & 7 series BMW's, the lower "A" arm bushing nuts are inaccessible with standard wrenches. This narrow access wrench allows the technician to hold the nut with 12 point positioning. Having the box end feature allows a strong hold for quick removal of the bushing bolt.

The #62200 works on the following applications:

22 mm 1988-1996 5 & 7 series

21 mm 1996 and later 5 series & 1996-2001 7 series

*Does not work on M5 models*



Part Number 62200



## BMW REAR TOE ADJUSTER For 5, X5 & 7 Series

Designed to be used on 5, X5, and 7 series vehicles that have 16 mm or 18 mm crush nuts on the rear toe cam bolt adjusters. This double ended 12 point box wrench has been designed with a non standard, zero degree angle. Made with an extended box end hex offset and custom fit length. These configurations are necessary when accessing these fasteners in these extremely confined areas. This tool can be used on: 5 series 1997 and later, X5 series 2000 and later & 7 series 1995 and later.

Part Number 63100



**AVAILABLE 12-09 VW & AUDI 32MM 12 POINT DEEP SOCKET**



**Part Number 68950**

This 32 mm 12 point impact socket was released to help the technician remove and install 12 point axle nuts on VW & Audi SUV's. Our forged 12 point 32 mm socket with 1/2 inch drive is the strongest in the industry giving the technician the comfort of knowing that this socket will do the job every time. Torque requirements are high and our #68950 is the reliable choice Works on: VW Touareg 2004 & later & AUDI Q7 2006 & later



**VW & AUDI POWER STEERING AND WATER PUMP PULLEY REMOVAL AND REPLACEMENT AID**



**Part Number 96280**

This tool's double triangular head configuration is designed to be used on pulleys that utilize socket head bolts. The tool holds the power steering or water pump pulley stationary while removing or replacing the three socket head bolts that attach the pulley to the shaft. Used on **power steering and water pumps** on all Volkswagen and Audi water-cooled, four-cylinder, gas or diesel engines, from 1975 & later, Volkswagen V-6 1992 and later. In addition it is used on **the power steering pump** pulley with Audi V-8 engines, 1990 & later, Audi V-6 engines, 1992 & later, Audi 1981-1995 and Volkswagen 1983-1988 5 cylinder engines that have socket head bolts holding the pulley to the power steering pump.



**BOSCH DIESEL INJECTION TIMING INDICATOR TOOL**



This tool screws into the back of the injection pump giving a dial indicator reading necessary for setting the correct pump timing. This quality tool comes complete with a dial indicator which reads in graduations of 0.01mm. This makes the timing easy to set as the timing has a range from 0.83mm to 1.15mm. For use on VW and Audi diesels through 1992.

**Part Number 83300**



*Also works with 1981-1986 Volvo 6cyl 2.4L diesels, 1989-1994 Dodge 6 cyl 5.9L diesels.*

**CIS FUEL INJECTOR PULLER**



This tool has been developed to easily remove CIS fuel injectors on many in-line engines including all gasoline water-cooled Volkswagen, Porsche 924, and Audi automobiles. In operation, this tool fits down around the injector base and with the use of a screwdriver as a lever it "pops" out the injector eliminating possible damage to the injector hose. Made from heat treated steel with a back finish.

**Part Number 83400**



**DIESEL INJECTION PUMP LOCKING PIN**



This tool allows the drive belt to be removed without the injector losing its general timing position. If the drive belt has been broken or is missing, this tool will locate the general timing position of the pump as called for in the belt installation instructions. This locking pin is made of steel with a precision ground circumference for an accurate fit. For use on VW and Audi diesels through 1992. **Part Number 83250**



**MASTER CYLINDER PRESSURE CAP**

**AUDI • BMW • MERCEDES • PORSCHE • SAAB • VOLVO • VW**

**For Most Import Automobiles**

**Part Number 89250**

This universal cap has been designed for use with pressure bleeders on most master cylinders or clutch slave cylinders. For use on most Audi, BMW, Mazda, Mercedes, Porsche, Saab, Volkswagen and Volvo. Comes with 1/4-18 NPT threaded opening.





## VW / AUDI TIMING BELT PULLEY HOLDER

This crank pulley holding tool has been developed to aid in the removal and installation of the crank bolt on VW and Audi four cylinder engines. These crank pulleys need a special tool to hold the pulley stationary for the crank bolt to be removed and reinstalled to the factory torque requirement. Previous to this tool a chain wrench has been used in the past. This, in most cases, damages the pulley which in turn prematurely wears out the belt.

This tool works on:

1.8L 4 cylinder turbo VW & Audi 1998-2006

2.0L 4 cylinder VW & Audi 1993-2005

2.0L 4 cylinder turbo VW & Audi 2006 & later

Part Number 67600



## VW & AUDI STRUT SHOCK NUT SOCKETS

Part Number 87300



This tool has been designed to allow for the easy removal and installation of the shock retaining nut used on most front wheel drive Volkswagens and Audi's. At the bottom of the tool it has a slot drive to fit the slot in the top of the lower retaining nut, and a hole through its center to allow for an Allen wrench to hold the shock from turning.



## VW & AUDI TENSION PULLEY SPANNER WRENCH

These tools, for use on VW's and Audis, have been designed to allow for the easy adjustment of the camshaft spur belts having idler pulleys with pin holes. In operation, this spanner wrench with its protruding pins, grips the center of the idler pulley and rotates it around its off-center retaining bolt. This rotation then allows for camshaft spur belt tension adjustment. #86400 is used on early Audi and VW's through 1997. #62400 is used on Audi and VW's 1998 and later. Made from heat treated alloy steel, this unique tool comes with a black finish and a soft grip handle.

Part Number  
86400



Part Number  
62400



PATENT PENDING

## SUPER DUTY 12 & 6 POINT OXYGEN SENSOR WRENCH

For Use With Any Size Electrical Connector

Part Number  
88750A

This unique wrench has been designed for 16-valve GTI Volkswagens, and can be used with most all oxygen sensors no matter what size electrical terminal connectors they have. Its compact design with a 3/8 inch square drive allows for easy access to the oxygen sensor which is often located in a very confined area like the rear oxygen sensors on all VW 4 CYL 1996 and later. This tool works on both Foreign and Domestic cars.



## VW / AUDI SPARK PLUG BOOT PULLER AND INSTALLER

The VW and Audi steel spark plug boots are designed to seal and increase contact between the spark plug and spark plug wire. With the increased seal and location of the boot, a special tool has been developed to access and remove the spark plug boot and fits all older and newer applications. The tool is also needed in snapping the spark plug boot on to the spark plug that is in a very confined area. This spark plug boot tool was designed in hardened stainless steel for long term service for the professional technician. The "T" handle gives the technician plenty of pulling power to remove and replace the most difficult spark plug boot. Updated to fit new style and VW & Audi spark plug boots 2006 & later.



Part  
Number  
98180A



## MASTER CYLINDER PRESSURE CAP

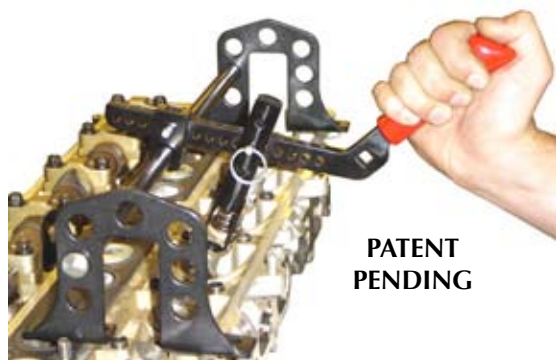
Part Number 89250

This universal cap has been designed for use with pressure bleeders on most master cylinders or clutch slave cylinders. For use on most Audi, BMW, Mercedes, Porsche, Saab, Volvo and VW. Comes with 1/4-18 NPT threaded opening.



## VW/AUDI & PORSCHE UNIVERSAL OHC VALVE SPRING COMPRESSOR

This universal valve spring compressor has been developed to remove and install the valve springs with the cylinder head still on the engine and in the car or with the cylinder head removed. The multipoint adjustable base of this tool bolts securely to the head. The newly developed lever has 16 multiple adjustment positions and is securely attached to the bar with a positive acting slider. The lever also has a 3/8" square drive and pivots from the bar thus compressing the spring. Quick removal and installation of the



**PATENT  
PENDING**

spring retaining keepers is then easily accomplished through the large openings on both sides of the compression tube. This quality tool comes complete with an "easy grip" handle and is packaged in a blow molded box. Not for 5 valve heads.

Part Number 91400A



### UPDATE KIT Update #91400 or similar kits that have a 5/8" bar

The update kit includes: Handle, slider and two detent clevis pins.

Part Number  
91410

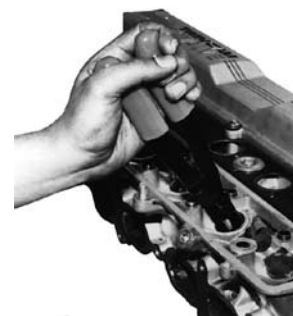


## NARROW ACCESS VALVE STEM SEAL REMOVAL PLIERS SPARK PLUG BOOT PLIERS



Part Number 92350

These pliers have been developed to remove the valve stem seals which are used on most overhead camshaft engines which includes 4 valve per cylinder engines that have very narrow access to the valve stem seal do to the design of the heads. These pliers feature "gripping" serrations in the tip allowing them to grasp both original equipment and aftermarket seals regardless of their configuration. Made from quality heat-treated steel with easy grip handles.



## VW CLUTCH ALIGNMENT TOOL

For Use on Fox, Golf, Jetta, Rabbit and Scirocco

This clutch alignment tool has been designed to center the clutch disk with the pressure plate when it is installed. The use of this tool is a must whenever changing a clutch. It is made of glass filled nylon for strength and held to exact tolerances for an ideal fit. For use on all water-cooled Volkswagens up to 1993 except those with 16 valve engines.



Part Number  
81251

## AIR COOLED VW

### VW VALVE 13 MM JAM NUT ADJUSTMENT TOOL

This tool features a window in its socket to see the position of the screwdriver blade holding the adjustment screw as the jam nut is tightened. This allows for quicker valve adjustment times as the technician can hold the adjustment screw exactly where he wants it. The unique handle pivots from one side to the other, so the window is always visible. Made from heat treated steel this tool comes with a soft grip handle.

**Part Number 88900**



### END PLAY MEASURING TOOL **Part Number 80250**

This tool has been designed to measure the end play movement of the VW crankshaft without the use of a dial indicator. With the tool bolted to the end of the case using a feeler gauge measure the gap created by the end play. The taking of this end play measurement is necessary whenever a VW engine is rebuilt to prevent the rear main bearing from siezing up. A must for rebuilding an engine. Works on all air-cooled VW engines



### VW OIL PRESSURE PISTON PULLER

This quality tool has been designed to remove the oil pressure relief piston in VW engines. A piston which many times becomes stuck due to corrosion and gunk build-up and which should be removed during an engine overhaul for oil passage cleaning, insuring proper piston operation. This tool simply slides inside the case into the piston, then the tools tip expanded, it grabs hold of the piston pulling it out with the tool. This tool is a necessity when overhauling a VW engine or just checking out oil pressure problems. For use on all type I, II, III & IV engines.



**Part Number 80500**

### VW DISTRIBUTOR DRIVE PULLER

Designed for the removal and installation of the distributor drive in all air-cooled VW engines while the engine is assembled. Easily change the direction of the distributor rotor by changing the drive slot direction. This handy tool is precision ground to fit in the drive hole, thus assuring perfect alignment of the drive for easy removal or installation. This tool has been designed for a sure grip on the drive, for use on all type I, II & III engines.



**Part Number 79150**

### VW CLUTCH ADJUSTING WRENCH

**Part Number 86250**

This tool has been designed to simplify the task of adjusting clutch cables on air-cooled VW's having wing nuts. The tool has four gripping areas, rather than the wing nut's two, which provide for greater leverage and ease in turning the nut. Made of quality steel this tool comes with a black finish.



### PORSCHE & VW FLYWHEEL LOCK

This universal flywheel lock has been designed for use on all air-cooled Porsche engines (series 356, 912, 914 & all 911s through 1969) and on all air-cooled Volkswagen engines (type 1,2,3 & 4). This tool is a must when changing a flywheel or its seal and it comes in handy when changing a clutch.

**Part Number 80350**



## MOTORCYCLE

### HARLEY DAVIDSON FRONT FORK CAP TOOL

This special tool has been designed to R&R the front fork caps on 1984 and later big twin Harley Davidson Motorcycles. Removing the fork cap is necessary when servicing fork fluids. This is required at each 10,000 mile service. In most cases it eliminates the need to undo electric connectors and remove the flairing on FLH, FLHT, FLTR and FLHX models, this results in a savings of over 30 minutes.

**Part Number 67250**



### 12 & 6 POINT 2 1/8" OFFSET OXYGEN SENSOR WRENCH

This unique wrench works on 2007 and later **Harley Davidson Motorcycles**. Starting in 2007 these motorcycles have an oxygen sensor in a confined area of the exhaust system. Using the 2 1/8" offset oxygen sensor, removal and replacement is simple without removal of the exhaust system.

**PATENT PENDING**

**Part Number 93750A**



### MOTORCYCLE AXLE WRENCH

Used with **HONDA•KAWASAKI•SUZUKI•YAMAHA**



This unique tool is used to install and remove front wheel axles and swing arm pivot shafts. It is a double sided wrench which has both a 19 mm and 24 mm hex. There is also a 3/8" square drive hole in the handle to provide easy torque adjustments. Made from heat treated steel.





## NEW TOOL IDEA SUBMISSION FORMS

Thank you for your interest in having Schley Products Inc. review your automotive hand tool idea. Schley Products is a leader in bringing new products to the market over the past several years. Our development time for products is unparalleled which can result in award or royalty payments sooner for the inventor. Our wide base of distribution includes private labeling for major mobile tool suppliers and includes direct supply to new car manufactures for their dealerships.

Schley Products evaluates new products using a number of steps. These steps include market research that determines whether there is good potential for your idea. Market potential includes looking at areas such as; a precise solution to a problem, originality and uniqueness, making a job easier, or a better design of a present tool.

If we determine your idea has good market potential, we will offer an award or royalty agreement. The amount of the award or royalty bases itself on the market potential of your idea. The decision of Schley Products Inc., with respect to the award or royalty, is solely at the discretion of Schley Products Inc., and is final.

Following you'll find an IDEA SUBMISSION POLICY & IDEA SUBMISSION AGREEMENT. You can fill out and send in to us with a working model, photograph or drawing of your idea. This will help benefit the market research phase of the development process. In order to gain full protection for your idea you can file for patent protection prior to submitting your idea. However, most of the inventors that we have dealt with over the years have not taken this route initially. They have relied on Schley's reputation for treating inventors fairly and have found it unnecessary to go the expense of filing a patent application until such time as it becomes apparent that the idea is marketable and further protection is desirable.

We are looking forward to receiving your information packet for review. You can send your idea to the address below.

Very truly yours,

SCHLEY PRODUCTS INC.,  
5350 E. Hunter Ave  
Anaheim CA., 92807

January 1, 1992

Schley Products Inc., appreciates the opportunity to review and evaluate new products and new ideas presented to it. Schley Products strives to give intelligent consideration and to deal frankly and fairly with those persons and organizations who make such presentations. Schley Products employs a staff of creative designers and engineers who originate and create, engineer and produce ideas and new products and who develop methods and techniques of improving those products already in production. This staff may have developed or have had suggested or will have suggestions to them a product or process similar to or identical with that which you wish Schley Products to consider. You can understand that Schley Products cannot and will not become obligated to pay for products and ideas that are already available to it. Accordingly, and in order to ensure against any misunderstandings, it is necessary to set forth the terms and conditions upon which Schley Products will review and evaluate your suggestions and samples of new products and new ideas.

**Prior to signing the attached IDEA SUBMISSION AGREEMENT, please be sure that you have read and fully understand the following terms and conditions which regulate and govern that basis of your presentation. These conditions are as follows:**

1. Schley Products will review a new product or new idea only when the same is accompanied by the attached Idea Submission Agreement properly signed and filled out. A separate form must be submitted for each new product or idea. The form will not be returned, therefore, you should retain one copy for your own records.
2. If Schley Products elects not to further pursue your new product or new idea, we will attempt to return it to you, but Schley Products shall have no liability of for any reason all or any portion of the presented material is not returned to you or if there is any damage to the presented material. Accordingly, you should retain a complete copy of all presented material for your own records.
3. The decision as to whether or not Schley Products will pursue the product or idea presented is solely within the discretion of Schley Products, this decision in such regard will be final and conclusive.
4. Should a new product or new idea be rejected, Schley Products has no obligation to disclose the reasons for such rejection since by such disclosure, Schley Products might be placed in a position of premature disclosure of its merchandising plans.
5. Schley Products cannot agree to hold your presentation in confidence for the reason that it must be disclosed to various employees and sometimes to those outside the company in order to determine its value and usefulness to Schley Products. Accordingly, is understood and agreed that no confidential relationship is expressed or implied by Schley Products acceptance of your presented materials for consideration and evaluation; and by presenting the subject materials, you hereby authorize Schley Products to disclose the same to such of its employees and to such other persons or entities as may be necessary or desirable for Schley Products, in its sole discretion, to determine the value and usefulness of the presented materials.
6. Schley Products has no obligation to compensate you for the idea or products described in the materials submitted, whether or not such ideas or products were already in the public domain or were previously known by Schley Products or its affiliates.
7. No officer, employee or representative of Schley Products is permitted to accept disclosure of an idea "in confidence" and no "confidential relation" may be established with the submitter.
8. Unless and until a mutually **satisfactory agreement is signed** extending rights in your idea or product suggestion, it is understood and agreed that you retain all rights afforded you by the patent, trademark, and copyright laws of the United States with respect to your idea or product suggestion.
9. Ordinarily, Schley Products will review a new product or new idea only when the same is presented in a tangible medium such as a sketch, written explanation and/or set of instructions, video, or prototype form.

The conditions given above have been established for the purpose of retaining the goodwill of the submitter and maintaining the good name of Schley Products Inc. If the submitter is willing to recognize the above conditions and sign the following Idea Submission Agreement, Schley Products Inc., will be glad to receive this disclosure and give it full consideration.

Thank you for your interest in our company.

Signature \_\_\_\_\_ Date \_\_\_\_\_

**SCHLEY PRODUCTS INC.  
IDEA SUBMISSION AGREEMENT**

Enclosed herewith is a new product or new idea as described below. By submitting the same, the undersigned represents and warrants that he/she is the sole owner of the entire right, title, and interest in and to such new idea of new product and has the right to transfer all such right, title, and interest in and to such product or idea to Schley Products, Inc.

My product (or) idea relating to \_\_\_\_\_

\_\_\_\_\_

is submitted to you on a non-confidential basis and its' submission does not obligate Schley Products in any way. I understand that upon submission of my product or idea Schley will promptly review and consider whether Schley desires to offer me an award or royalty contract to use the product or idea. In the event I do not enter into a contract with Schley, I understand that Schley assumes no obligation and that any claim which I may have shall be based solely upon patent rights I might now have or will obtain on my product or idea.

It is understood by me that Schley Products Inc., will not be bound in any manner by suggestions or ideas of a general nature not in such a form when disclosed that they can be protected under the Patent and Copyright Laws of the United States of America.

I hereby release Schley Products Inc., and its representatives of any liability in this connection and rely solely upon such protection of my creation as is afforded me under the Patent and Copyright Laws of the United States of America.

The undersigned further represents and warrants that he/she has read and understands the Idea Submission Policy of Schley Products, Inc., dated January 1, 1992, and does hereby agree that this new product or new idea is being submitted subject to each and every one of the terms and conditions set forth in such Policy. The undersigned further represents and warrants that he/she is eighteen (18) years of age or older. (If not, this Agreement must also be signed a parent of guardian.)

Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Telephone Number \_\_\_\_\_ ( ) \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Name of item being submitted: \_\_\_\_\_

\_\_\_\_\_

Brief description of item: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- |   |           |          |
|---|-----------|----------|
| 1. Have you done a patent search?         | YES _____ | NO _____ |
| 2. Have you filed a patent application?   | YES _____ | NO _____ |
| 3. Do you have a patent?                  | YES _____ | NO _____ |
| 4. When did you first conceive this idea? | _____     |          |
| 5. Do you have a working model?           | YES _____ | NO _____ |

List here each separate document and piece included with submission. Please enclose copies of any documents which you may pertaining to your idea, including any patent.

\_\_\_\_\_

\_\_\_\_\_

# PART LISTS

## REPLACEMENT PARTS LIST

### UNIVERSAL BRAKE CALIPER KIT #86100B

|          |   |
|----------|---|
| 85250-1  | STUD 7/8 - 9 X 6"   |
| 85250-2  | RETAINING "C" RING FOR STUD                               |
| 85250-3  | 1/4" PLATE  |
| 85250-4  | NUT 7/8" - 9 X 3"   |
| 85250-5  | SNAP RING 1-1/8"  |
| 85250-7  | ADAPTER #1  |
| 85250-8  | ADAPTER #2  |
| 85250-9A | ADAPTER #3  |
| 85250-10 | ASSEMBLED MAIN BODY<br>(INCLUDES 85250-1 THROUGH 85250-5) |
| 86150-4  | ADAPTER #4  |
| 86150-5  | ADAPTER #5  |
| 86150-6  | ADAPTER #6  |
| 86100B-7 | ADAPTER #7  |

### UNIVERSAL VALVE SPRING COMPRESSOR #91400A

|             |                    |
|-------------|--------------------|
| 82290-1A    | MAIN BAR           |
| 91400-2     | STAND (2 required) |
| 91400-2A    | DEPRESSING TUBE    |
| 91400-3A    | ARM                |
| 91400-4A    | SLIDER BLOCK       |
| 91400A-0-TR | BLOW MOLDED BOX    |
| 500-1/4X1   | CLEVIS PIN         |

### CRANKSHAFT PULLEY PULLER AND INSTALLER TOOL #92100

|         |                                 |
|---------|---------------------------------|
| 92100-1 | MAIN BODY                       |
| 92100-2 | BOLT HEX HEAD M10 X 1.5 X 140MM |
| 92100-3 | THREADED ROD M12 X 1.75 X 140MM |
| 92100-4 | PUSHER WASHER 1.125 X .515      |
| 92100-5 | INSERT PLUG 7/8" DIAMETER       |

### ADJUSTABLE HOSE CLAMP PLIERS STRAIGHT #95600

|       |   |
|-------|---|
| 95610 | REPLACEMENT TIP KIT<br>(2 TIPS, 2 O-RINGS, 2 PUSH NUTS) |
|-------|---|

### ADJUSTABLE HOSE CLAMP PLIERS 45° #95620 & 90° #95640

|          |   |
|----------|---|
| 95620-4K | REPLACEMENT TIP KIT<br>(2 TIPS, 2 O-RINGS, 2 PUSH NUTS) |
|----------|---|

### ADJUSTABLE HOSE CLAMP PLIERS #95600, #95620 & #95640

|          |                              |
|----------|------------------------------|
| 95600-6K | ADJUSTING ROD AND SPRING KIT |
|----------|------------------------------|

### TOYOTA TIMING BELT TENSIONER COMPRESSOR #97300

|         |          |
|---------|----------|
| 97300-5 | LOCK PIN |
|---------|----------|

### HONDA & ACURA CAM SEAL AND BALANCE SHAFT SEAL INSTALLER #60170

|                  |                        |
|------------------|------------------------|
| 60170-2          | 10 mm X 1.25 LONG STUD |
| 60170-3          | 8 mm X 1.25 LONG STUD  |
| 60170-4          | 8 mm X 1.25 SHORT STUD |
| 60170-5          | INSERT                 |
| 260-M8X1.25 8.8  | 8 mm FLANGE NUT        |
| 260-M10x1.25 8.8 | 10 mm FLANGE NUT       |

### TOYOTA / LEXUS / MAZDA / NISSAN CAM SEAL INSTALLER #63800

|                   |  |
|-------------------|--|
| 63800-1           | CAM SEAL INSTALLER CUP                 |
| 65500-3-MA-C      | 2.50" LONG 1/2X20 - M12X1.25 SET SCREW |
| 63800-3-C         | 2.50" LONG 1/2X20 - M10X1.25 SET SCREW |
| 200-1/2-20        | HEX NUT                                |
| 300-1/2 ID WASHER | WASHER                                 |

### LEXUS / TOYOTA HARMONIC DAMPER PULLEY HOLDER #64300

|       |              |
|-------|--------------|
| 64310 | HARDWARE KIT |
|-------|--------------|

### HARMONIC DAMPER PULLEY PULLER #64900

|           |                             |
|-----------|-----------------------------|
| 97400-1   | PULLEY PULLER HUB           |
| 97400-3   | CENTER BOLT                 |
| 97400-4   | PULLEY PULLER PUSH ROD 5.5" |
| 97400-5   | CLEVIS PIN                  |
| 97400-6   | PULLEY PULLER PUSH ROD 4.0" |
| 97400-7   | PULLEY PULLER PUSH ROD 7.5" |
| 64900-1-T | PULLEY PULLER ARM           |
| 64900-8   | PULLEY PULLER PUSH ROD 6.5" |
| 64900-0-T | BLOW MOLDED BOX FOR 64900   |

### HONDA / ACURA BUSHING X-TRACTOR™ #65130

|            |                       |
|------------|-----------------------|
| 65100-1-MA | CUP                   |
| 65100-9    | PULLER ASSEMBLY       |
| 65100-5-T  | BOLT WITH TIP         |
| 65120      | ACRUA INTEGRA ADAPTER |
| 65100-0-T  | BLOW MOLDED BOX       |
| 65110      | REPLACEMENT CABLE     |

### TOYOTA / LEXUS CAM SEAL R&R TOOL #65510

|                   |                    |
|-------------------|--------------------|
| 65500-2           | REMOVER CUP        |
| 65500-3-MA-C      | THREADED STEP STUD |
| 65500-4-MA-C      | REMOVAL STUD       |
| 63800-1           | INSTALLER CUP      |
| 200-1/2-20        | HEX NUT            |
| 300-1/2 ID WASHER | WASHER             |
| 65510-0-TR        | BLOW MOLDED BOX    |

### GM OIL PUMP DRIVE REMOVAL TOOL #65550

|              |                        |
|--------------|------------------------|
| 65550-2      | OIL PUMP REMOVAL PLATE |
| 65550-3-MA-C | LOCKING STUD           |
| 65550-6-MA-C | EXTRACTOR STUD         |

### VW / AUDI TIMING BELT PULLEY HOLDER #67600

|                |                 |
|----------------|-----------------|
| 150-M8X1.25X35 | BOLT M8X1.25X35 |
| 350-8MM        | WASHER 8MM      |

### GM STEERING PUMP SEAL REMOVER #68500A

|             |                 |
|-------------|-----------------|
| 68500-1     | REMOVER CUP     |
| 68500-2-C   | REMOVAL STUD    |
| 68500-3-C   | THREADED STEP   |
| 68500-4     | SEAL INSTALLER  |
| 200-1/2-20  | HEX NUT         |
| 65500-0-T-R | BLOW MOLDED BOX |



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