





## vehicle | SPECIALTY Index:

<b>Steering &amp; Suspension</b> .....	1096-1125
<b>Drive Shaft &amp; Axle</b> .....	1126-1147
<b>Engine Mechanical</b> .....	1148-1209
<b>Cooling Systems</b> .....	1210-1227
<b>Ignition Tools</b> .....	1227
<b>Electrical Service</b> .....	1228-1255
<b>Tubing Cutting, Flaring and Bending</b> .....	1256-1261
<b>Fuel Management</b> .....	1262-1285
<b>Body Mechanical</b> .....	1286-1306
<b>Exhaust</b> .....	1307-1314
<b>Inspection</b> .....	1314-1325
<b>Trailer Testing</b> .....	1326-1328
<b>Motorcycle Tools</b> .....	1329

## STEERING & SUSPENSION

### Power Steering Testers & Bleeders



#### STATU22

##### Power Steering and Rack Tester

- Made to detect defective power steering pumps and gears, plus kinked or clogged lines
- Dual 2-1/2 in. easy-to-read gauge records pressure from 0-2000 PSI and 0-140 bar
- Adapters included
- Includes most adapters to test domestic cars and light trucks, and some imports
- The 2-1/4 in. gauge has a dual scale dial with ranges from 0 - 2000 psi and 0 - 140 bar



### Power Steering Belt Tools



#### OTC5079

##### Heavy Duty Power Steering Pump Analyzer

- Troubleshoots problem components in a heavy-duty power steering system
- Flow and pressure reading meter measures both 1 to 10 gallons oil flow and up to 3,000 PSI of pressure
- When connected in line, this universal analyzer will isolate the failed components in just minutes - there is no wasted time as in trial and error methods

This set is complete with high pressure hoses, 9/16"-18 standard fittings, and quick disconnect couplers to handle Eaton/Vickers, TRW, Ross, and Shepard power steering systems.

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#### MITMVA661

##### GM Power Steering Bleed Adapter

- Custom design to fit late model GM vehicles
- Aids in eliminating rapped air from GM power steering system
- Designed for use with Mityvac Hand Pump
- 90-degree adapter fitting available
- Non-slip design for easy installation

When installed, the adapters form an airtight seal in the neck of a vehicle's power steering pump. A hand vacuum pump then can be coupled to the adapter to exert a vacuum on the fluid's surface in the reservoir. As trapped air works its way out of the system, the vacuum prevents foam from forming at the surface and air from re-entering the system.



#### MITMVA665

##### Right Angle Connection Adapter

- Allows convenient use of power steering bleed adapters in applications with limited access
- Swivels 360° for optimum accessibility
- Threads directly into adapter body in place of standard straight barb
- Works with both the MVA661 and MVA662 bleed adapters
- Durable and easy to use
- Allows the option of side-angle access to power steering adapters MVA661 and MVA662 when bleeding power steering systems

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## STEERING & SUSPENSION

### Power Steering Belt Tools



#### SGT34650

##### Power Steering Tester in Molded Plastic Case

- Gives fast, accurate power steering analysis
- Test for defects in power steering pumps, gears and lines
- Large heavy duty gauge reads from 0-2,000 PSI and 0-140 BAR
- Use to rule out power steering problems before expensive suspension or steering linkage problem is attacked
- Includes 13 adapters and instructions



#### THX212

##### Power Steering Fluid Bleeder

- Bleeds air from power steering fluid systems
- Product is compatible with most makes and models of vehicles with power steering fluid
- Tapered adapter allows for use on most makes and models
- 2' hose gives added length for different applications
- 32 oz bottle is sufficient for most applications

#### THX383

##### Power Steering Belt Tool

- Heat-treated steel tool tightens belt on GM-type Saginaw pumps
- Slips over bracket to eliminate damage to pump housing
- Use with 1/2" drive ratchet or breaker bar
- Improved design resists breakage



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### Power Steering Pump Pulley Tools



#### KT170300

##### Pulley Puller and Installer Set

- Removes and installs most power steering and alternator pulleys on domestic vehicles
- Works with traditional V-shaped pulleys and serpentine belt system pulleys
- Packaged in a blow molded case



#### KT170350

##### 2/3 Jaw Universal Pulley Puller - 5 Ton

- Five ton reversible puller easily removes and installs pressed-on power steering, alternator and air pump pulleys
- Includes five-ton reversible puller that can be used as 2 or 3 jaw puller in 8 different combinations

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## STEERING & SUSPENSION

### Power Steering Pump Pulley Tools

**PA Astro**



**AST7874  
Pulley Puller and Installer Kit**

- Removes pressed on alternator and power steering pulleys on late model GM, Ford and Chrysler engines
- Installs late model GM alternator and power steering pulleys including Quad 4

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**GW GEARWRENCH**



**KDT41560  
Power Steering Pump  
Pulley Kit**

- Removes and installs power steering pump pulleys off most domestic vehicles
- Includes the necessary adapters for servicing GM 3.1 L, 3100, 3400, and 3800 V6 engines, GM 2.3L Quad 4 four cylinder engines and Ford 4.6L, 5.4L, and 5.8L modular V8 engines.
- Fits pulley hubs with diameters of 1-1/8 in., 1-1/4 in., 1-5/16 in. and 1-3/8 in.
- Includes quick disconnect tool for GM 1/2, 3/4, and 1 ton pickups
- Includes KDT3893 Disconnect Tool; KDT41561 Bushing and Screw Set and the KDT41562 Bushing and Screw Set

vehicle | SPECIALTY

**LANG TOOLS**  
Professional Tools For **4 Generations**



**KAS5239B  
Power Steering Pump / Alternator  
Pulley Remover and Installer**

- Designed for removing and installing power steering pump pulleys on most domestic vehicles including early GM, Chrysler and Ford
- Use on pulleys with grooved hub diameters of 1-1/8", 1-1/4", 1-5/16" and 1-3/8"
- Also, removes and installs GM belt-driven vacuum pumps and pressed-on water pump pulleys on GM 4 and 6 cylinders
- Packaged in a blow molded case

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**LANG TOOLS**  
Professional Tools For **4 Generations**



**KAS5238  
Master Power  
Steering Pump /  
Alternator  
Pulley Remover  
Installer Kit**

- Designed to remove and install press-on-type belt driven accessory pulleys found on most vehicles
- Kit includes components necessary to remove and install pulleys on pumps with the common 3/8-16 threaded shaft
- Unique interchangeable component removes and installs pulleys on GM Quad 4, GM 3.1 L, and Ford 4.6L engines
- Designed to be used with either hand tools or an impact gun. Kit includes an instruction pamphlet with detailed diagrams

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## STEERING & SUSPENSION

### Power Steering Pump Pulley Tools



#### LIS39000

##### No Slip Pulley Puller

- Removes and installs pressed on power steering, alternator and air pump pulleys without slipping
- The unique puller body completely houses the pulley hub to prevent slipping on even the tightest pulleys
- Fits most domestic models including GM 3.1 and Quad 4 engines
- Works on traditional V shaped pulleys and serpentine belt system pulleys

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#### OTC4530

##### Power Steering Pump Pulley Service Set

- Complete set of tools required to remove and install power steering pump pulleys of most domestic vehicles
- Fits pulley hubs with diameters of 1-1/8", 1-1/4", 1-5/16" and 1-3/8"
- Housed in a blow molded storage case to protect and organize components

Includes the necessary adapters for servicing: GM 3.1 L, 3100, 3400, and 3800 V6 engines, GM 2.3L Quad 4 four-cylinder engines and Ford 4.6L, 5.4L, and 5.8L modular V8 engines.



#### OTC4681

##### Power Steering Pump/Alternator Remover/Installer Tool

- Reversible 2-in-1 tool removes and installs press-fit alternator and power steering pump pulleys
- Also removes and installs other press-fit pulleys with a hub diameter of 1-1/8" (28mm), 1-1/4" (32mm), 1-5/16" (34mm), or 1-3/8" (35mm)



#### OTC7005

##### Power Steering Pump Pulley Replacer

- Designed to ensure damage-free installation
- Threads are 3/8"-1 6 to fit the threads of the pulley shaft
- Internal roller bearing allows for easy turning
- Weight 11 oz.
- An ideal companion to the OTC7185



#### OTC7185

##### Alternator / Power Steering Pulley Puller

- Works on pulleys with hub diameters of 1-1/8", 1-1/4", 1-5/16", and 1-3/8"
- With split collet design, the jaws grip the pulley flange for damage-free removal
- Mechanical screw power



The 7185 tool removes pulleys on most Chrysler, Ford, GM, and VW vehicles, including Saginaw, Thompson, and the Ford C2 power steering pumps; GM belt-driven vacuum pumps on both gas and diesel cars; and press-on water pump pulleys on GM 4-cylinder and V-6 engines.

#### OTC7771A

##### Ford Power Steering Pump Pulley Installer

- Installs power steering pump pulleys on 1992-newer Ford Crown Victoria and Mercury Grand Marquis with 4.6 V8 engine, 1997-newer Ford truck with 4.2 and 4.6 V6, 5.4 V8, and 6.8 V10 engines
- 8 mm x 1.25" threads fit Ford's C111 pump



#### OTC7830A

##### Power Steering Pump Pulley Kit

- Works on Ford, GM, and Chrysler vehicles with Saginaw, Thompson and Ford C111 and C2 power steering pumps.
- Fits 1 1/8", 1 1/4", 1 5/16", and 1 3/8" pulley hub diameters including 1988 and newer GM cars equipped with Quad 4 engines; 1991 and newer GM minivans with 3.1 L and 3800 V-6 engines; 1991 to current Ford 4.6L engines with a metric shaft
- Also includes No 7931 spacer for work on Chrysler Cirrus, Dodge Stratus and Plymouth Breeze

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## STEERING & SUSPENSION

### Steering Wheel Tools

**AP Astro**



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**AST7874**

**Pulley Puller and Installer Kit**

- Removes pressed on alternator and power steering pulleys on late model GM, Ford and Chrysler engines
- Installs late model GM alternator and power steering pulleys including Quad 4
- Included in a blow molded case for easy storage and transport

**GW GEARWRENCH**



**KDT2897**

**Alternator Pulley Puller and Installer Set**

- Remove pressed - on alternator and power steering pulleys on late - model GM, Ford and Chrysler engines
- The threaded end installs late - model GM alternator and power steering pulleys, including Quad 4
- Reverse the jaws to pull the alternator internal bearing
- The puller fits some AMCS



**KDT41620**

**Steering Wheel Puller Kit**

- This kit removes a steering wheel from most domestic and import cars with or without telescoping tilt columns
- Use the puller legs with the steering wheel puller to remove steering wheels on late model GM vehicles
- Steering wheel lock-plate depressor also included

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**GW GEARWRENCH**



**KDT2291**

**Steering Wheel and Crankshaft Puller**

- Pulls steering wheels on most U.S. and imported cars
- Floating swivel on center screw prevents damage to steering column
- Five sets of side bolts included: 3/8"-16 UNC, 5/16"-18 UNF, 5/16"-24 UNF, 1/4"-28 UNF, 8mm x 1.25
- Also removes the crankshaft pulleys on Chrysler 2.2L and 2.5L engines

**KDT3509**

**Steering Wheel Lock Plate Remover/Installer**

- Features a redesigned puller yoke to fit late model GM cars with (S.I.R.) air bags 1992 to present
- Works on older GM, Chrysler and AMC vehicles previously serviced by 2414
- Made of zinc and black oxide for corrosion resistance
- Replacement part: 3509-71- Lock Plate yoke
- Replacement part: 3509-72- Lock Plate collar package



It's simple to use, the narrower yoke prevents damage to the lock plate. Separate SAE and metric threaded collars screw to the center steering column. The center screw uses a 3/8" wrench flats to turn the collars onto center column.



**KDT3510**

**Steering Wheel Pulling Legs**

- Removes steering wheels safe and easy
- Used for late models that are not pre-drilled for standard bolts

This is to be used in conjunction with the 2291 steering wheel puller to remove steering wheels on late model GM vehicles that are not re-drilled to receive standard bolts. This can be used on several applications, which include Cadillac 1997, Chevrolet / GMC 1997-98, Buick 1997, Oldsmobile 1997, Pontiac 1988-1993 (Lemans) and 1997. This also includes the bushings to cover the following, Ford 1997 and Chrysler 1999 Jeep Grand Cherokee.

## STEERING & SUSPENSION

### Steering Wheel Tools



#### KT170330

##### Steering Wheel Puller

- Prevents damage to steering shaft threads
- Puller will remove steering wheel from most passenger cars and light/medium duty trucks
- Complete with five sets of side bolts
- Weight: 2.3 lbs.



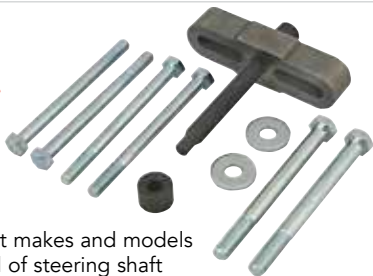
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#### KT170348

##### Steering Wheel Puller

- Prevents damage to steering shaft threads

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#### LIS45000

##### Steering Wheel Puller

- Universal puller for most makes and models
- Screw pad protects end of steering shaft
- Heavy duty for long wear

Includes the following parts: 45020 puller screw, 45050 screw pad, 45090 puller frame, (2) 45200 3/8" - 16 bolt, (2) 45210 5/16" - 18 bolt and (2) 45220 5/16" - 24 bolt in a clam shell package.

#### LIS57340

##### Steering Wheel Lock Plate Tool

- Fits all domestic lock plates, including tilt and telescoping columns
- Comes with standard and metric adapters for most all domestic lock plates

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#### LIS19940

##### Pivot Pin Remover

- Removes the pivot pin on GM, Ford and Chrysler tilt and telescoping Saginaw steering columns
- Includes: 19940 pivot pin remover and 19970 cap screw



#### SGT66400

##### Steering Wheel Holder and Pedal Depressor

- Holds the steering wheel, brake pedal, accelerator or clutch pedal in a desired position
- Saves time and money by eliminating the need for two technicians to do one job
- Easy to assemble, install and release - components slide into position
- Fine adjustments can be made by using the hex adjuster
- Locks in place by putting pressure against the seat

Virtually 100% coverage to fit all cars and trucks either between seat and steering wheel, or seat and pedal. Coated to prevent slipping and marring. Packaged in a blow-molded plastic case. Complete instructions included.

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#### SUN3900

##### Steering Wheel Puller

- Cap screw sizes are 6/16" (24 x 3" long), 3/8" (16nc x 3" long) and 5/16" (18nc x 3-1/2" long)
- Specialized puller set for steering wheel, pulley and fly wheel puller

This is a special tool used for removing steering wheels. It works on most GM, Ford and Chrysler cars. It can also be used as a two or three way puller to remove pulleys and flywheel from small engines and snowmobiles. Made with the quality and durability to last!

## STEERING & SUSPENSION

### Steering Wheel Tools

# OTC



#### OTC4546

##### Steering Wheel Holder and Pedal Depressor Kit

- This kit has two applications: 1) holds steering wheel in position for alignment adjustments, and 2) depresses brake pedal for various brake checks, including brake lamp operation
- Rod easily slides in actuator for fast, easy installation of tool on brake pedal or steering wheel

Kit includes: actuator assembly; extension rod for actuator (use when depressing brake pedal); hook assembly (hooks on steering wheel when depressing brake pedal or holding steering wheel); and flat pad (rests on front seal when holding steering wheel). Replacement parts: 4546-1 - Handle and Rod 4546-2 - Steering Wheel and Pedal Holder.



#### OTC7245

##### Steering Wheel Puller

- Removes steering wheels on most domestic and imported vehicles, with or without telescoping steering columns
- Includes five sets of cap screws for various thread requirements
- Forcing screw features a swivel end to protect steering shaft
- Cap screws included (pairs): 3/8" - 16 x 3-1/2"; 5/16 - 18 x 3-1/2"; 5/16" - 24 x 3-1/2"; M8 - 1.25 x 90mm; and 5/16" - 18 x 4" (SIR).



#### TIG10705

##### Universal Pivot Pin Extractor

- Provides fast and effective removal of even the most seized pivot pins, found on a variety of equipment
- The Aluminum Spacer Tube will extract pivot pins up to 6.5" x 2.45" including pins commonly found on loaders, excavators, tractors and farm equipment
- The included Hammer Adapter is designed to thread onto the Jost 5th wheel bracket pin to shock it loose before the puller is connected
- The kit includes two sizes (1/2" and 5/8") of weld-on adapters, featuring a centering nub on the mating side to ensure correct alignment during welding. Replacement packs are available



# OTC



#### OTC7403

##### Steering Wheel, Pulley, and Flywheel Puller

- Pulls steering wheels on most late model cars
  - Works as a regular 2/3 way puller to remove pulleys and small engine flywheels
  - Works on domestic cars with or without collapsible steering columns
- Cap screws included (pairs): 3/8-16 x 3-1/2"; 5/16-18 x 3-1/2"; 5/16-24 x 3-1/2"; M8-1.25 x 90 mm; and 5/16-18 x 4 in. (SIR).



#### OTC7929A

##### Steering Wheel Puller Leg Set

- Particularly useful during steering wheel removal when there are no tapped holes in the assembly
- Designed for use with either the OTC7245 or the OTC7403 OTC steering wheel puller
- These legs get behind the steering wheel assembly to provide an even, straight pull
- Collar is designed for use of Ford and Chrysler vehicles

Works on: 1988–1993 Pontiac LeMans, 1997–newer GM cars, SUVs, and light trucks, 1997–newer Ford SUVs and light trucks, 1999–newer Jeep Grand Cherokee, 2003–newer Jeep Liberty, 2004–newer Dodge Sprinter van.

#### OTC7984

##### Master Steering Wheel Service Set

- Covers all lock plates and steering columns
- Covers tilt and telescoping steering wheels with or without air bags
- Includes a forged puller flange with 5 sets of hardened hex head bolts for 2 or 3 way pulling configurations
- Includes a set of steering wheel puller legs for steering wheels without tapped holes and a steering wheel pivot pin remove



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#### OTC7889

##### Steering Pivot Pin Remover

- Works on 1969-current GM, Chrysler and Ford vehicles with Saginaw steering columns
- Makes tilt steering columns much easier to service

## STEERING & SUSPENSION

### Tie Rod Tools

**Astro**



**AST7802**

**Tie Rod / Pitman Arm Adjusting Tool Set**

- Special tool design facilitates 360° rotation of adjusting sleeve in tight areas
- Accommodates 1/2" drive ratchet or breaker bar
- Blow molded case for easy storage and transport

Kit includes: 1 piece Pitman arm tool and 4 piece tie rod tools.

**LANG TOOLS**  
Professional Tools For 4 Generations



**KAS615**

**Tie Rod Wrench**

- Spring-loads upper jaw pivots to accommodate tie rods ranging in size from 10mm-18mm
- Wrench is self-adjusting
- Cam action increases the gripping pressure as the load applied to the handle increases
- Heat-treated for durability
- Works on most spline, hex, and two flat design tie rods

This tool is used for adjusting tie rods on vehicles with rack and pinion steering. Fits various sizes ranging from 10mm to 18mm. This Tie Rod Wrench is made with the durability and strength to get the job done!

**K TOOL INTERNATIONAL**



**KI71519**

**Tie Rod End Tool**

- Turns smooth tie rods easily
- Able to remove inner tie rod without removing the outer tie rod
- Inexpensive and effective way to turn smooth tie rod ends
- Simply slide tool over the end and tighten collar to allow access without an extension
- Lifetime warranty

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**Cal-Vari TOOLS**



**CAL946**

**Inner Tie Rod Removal Tool**

- Easily turns smooth inner tie rod ends, as well as tie rod ends with flats
- Allows user to remove inner tie rod without removing the outer tie rod
- Low profile design to fit into tight spaces

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**Lisle**



**LIS45750**

**Inner Tie Rod Tool**

- Includes 1-1/2" crow's foot for Chevrolet Colorado and GMC Canyon
- Works on the inner tie rods with inaccessible wrench flats

Many inner tie rod end sockets do not have a complete hex on the full length of the socket. The rounded socket ends prevent access to the wrench flats. The 45750 tool utilizes six crow's feet, sizes 1-1/2", 1-3/16", 1-1/4", 1-5/16", 1 7/16" and 33.6mm, to engage the wrench flats. The long socket then slips over the tie rod end and connects to the crows foot.

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**LIS46280**

**32.5mm Crow's Foot for Inner Tie Rod**

- Works on the inner tie rods with inaccessible wrench flats
- Fits '04 Escape AWD, '05-'06 Escape 2WD and 4WD
- Fits 04-05 Focus
- Fits '99-'02 Cougar with 14" or 15" wheels
- Fits '05-'06 Mercury Mariner 2WD and 4WD

This Crow's Foot is for use with 45750 inner tie rod tool. Fits many Ford applications.

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## STEERING & SUSPENSION

### Tie Rod Tools



#### LIS54500

##### Large Inner Tie Rod Tool

- Fits a lot of newer trucks and SUVs
- Fits both domestic and import
- Longer socket than the 45750 fits newer trucks and SUVs
- Of this style inner tie rod tool, the only one on the market
- Patent design has a retainer ring that makes sure the wrench won't slip

Removes and installs inner tie rods with inaccessible wrench flats on many trucks and SUVs. Fits Toyota, Nissan, Ford, Lincoln, Mercury, and Chevrolet truck and SUV applications. Four crowsfoot sizes 33.6mm, 1-7/16", 38.4mm, and 42mm.



#### LIS46600

##### Universal Inner Tie Rod Wrench

- Works on both inner tie rods with the round end socket or the type with the flats up to 1-31/64"
- Works on many Chrysler applications, Ford and Nissan with the non-flat round end socket
- Comes with 1/4" short head hex wrench
- Use with 1/2" drive
- Speeds tie rod replacement time



#### LIS46800

##### Master Inner Tie Rod Set

- Includes all 9 crowsfeet to work on many applications
- The long socket slips over the tie rod end and the crowfoot engages on the socket for easy removal and installation
- The inner tie rod can be removed and installed without removing the rack
- Sizes: 29mm, 1-3/16", 1-1/4", 32.5mm, 1-5/16", 33.6mm, 1-3/8", 1-7/16" and 1-1/2"



#### MAY29910

##### The Speedy, Universal Inner Tie Rod Tool

- Patented roller and cam mechanism grips securely on round, hexagonal and octagonal tie rods
- Extended working diameter range: 35mm - 45mm / 1-3/8" - 1-3/4"
- Works on 99% of inner tie rod models
- Accommodates most every length and diameter of tie rod
- No fussing with separate, loose attachments

The patented roller and cam mechanism adapts itself automatically to every kind of shape and diameter of the inner tie rod. The SPEEDY slips on easily, does away with fumbling for separate size attachments: saving you time and money!



#### MAY29915

##### Tie Rod Tool Repair Kit

- Replaces the rotating mechanism in the 29910 Tie Rod Tool
- Designed for quick and easy replacement
- Please refer to the instructions packed with 29910
- High quality design
- Made in France



#### PBT70897

##### Steering Rack End Wrench

- Service all inner tie rod ends
- Suits multiple rack ends and sizes: hex drive, round with two drive flats and round with no drive flats
- Use on vehicles with limited access to avoid need to remove the rack assembly
- Cam design increases force as load is applied
- Reduces repair time and prevents damage to rack components

Suits rack end diameters from 33mm (approx 1-5/16") to 41mm (approx 1-9/16"). 19mm (3/4") hex drive

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## STEERING & SUSPENSION

### Tie Rod Tools



#### OTC6295 Front End Service Set

- Kit includes 5 popular tools used for servicing Pitman arms, ball joints, and tie rods on most vehicles

Set includes: OTC7314A - Pitman arm puller; OTC7315A - tie rod end remover, OTC7503 - outer tie rod remover/ball joint separator; OTC6296 - Pitman arm/tie rod end puller; and OTC6297 - ball joint separator.



#### OTC7023 Universal Tie Rod Adjusting Tool

- Permits 360 degrees rotation of sleeve for required adjustment
- Four-position feature lets you locate tool to grip sleeve properly, even when access is limited
- Universal services most models of compact and standard-size passenger cars and light trucks
- Weight: 13 oz.

#### OTC7315A Tie Rod End Remover

- Redesigned to use on imports and many front wheel drive vehicles, including SUVs with rack and pinion steering
- Live center tip on forcing screw swivels to align tool to tie rod stud to ease in removal and prevent damage to stud



#### OTC6275 Tie Rod/Pitman Arm Adjusting Set

- Accomodates 1/2" drive ratchet or breaker bar
- Packaged in a blow molded case

Set includes: OTC7095 – For compact cars with 3/4" diameter adjusting sleeves; OTC7096 – For full size cars with 7/8" diameter adjusting sleeves; OTC7097 – For light trucks with 1-1/8" diameter adjusting sleeves; OTC6274 – For Ford 3/4-ton and 1-ton trucks with 1-13/16" diameter adjusting sleeves; OTC6084 – Pitman arm adjusting tool for Ford F-250 thru F-450 trucks with 1-7/16" dia . adjusting sleeves.



#### PBT70950 Heavy Duty Wrack Wrench

- New larger size provides coverage for domestic and import light trucks and SUV's
- Suits multiple rack ends and sizes (hex, round with two flats, round with no flats)
- Fixed position rings provide added strength
- Patented cam design increases force as load is applied
- Universal design suits inner tie rods from 38mm (1-1/2") to 48mm (1-7/8")

## STEERING & SUSPENSION

### Tie Rod Tools



#### OTC7595A

##### Inner Tie Rod Removal Set

- Remove and install inner tie rods without removing steering gear
- The adapters fit into the tie rod socket, and a 1/2" drive ratchet or breaker bar fits the drive end
- For use on most Chrysler, Ford and GM vehicles

OTC7572 socket is 16" long and is "stepped" to accept 1-3/16" tie rods and 1-5/16" tie rods. OTC7678, OTC7593, OTC7594 adapters fit into socket and work on 1-3/16", 1-5/16" and 1-7/16" tie rods.

#### OTC7503

##### Outer Tie Rod Remover

- Handles up to 5 tons of knuckle twisting force
- Jaw reach is 3" with a spread of 3"
- Can be used to separate lower ball joints on import FWD vehicles
- It works on imported and domestic models, front or rear wheel drive, cast or stamped-steel steering knuckles.



#### OTC7501

##### Heavy Duty Inner Tie Rod Wrench

- Unique cam design covers sizes from 38-48mm hex, 2 flats, round or any style rack ends
- This wrench fits all the way to the inner side of the tie rod link, which could have a variety of shapes
- This universal wrench will fit on all styles and allows the technician to unscrew the tie rod link for replacement
- If servicing steering components during alignments, steering damage, or routine maintenance, this wrench is invaluable



#### OTC5068

##### Truck Tie Rod Socket

- Designed to withstand the force of a 3/4" drive impact wrench
- Works on inner and outer tie rod ends on 12,000 to 16,000 lb. truck axles



#### OTC6084

##### Tie Rod Adjusting Tool

- Adjusts Pitman arms on heavy duty 3/4 and 1 ton trucks with 1-7/16" diameter adjusting sleeves

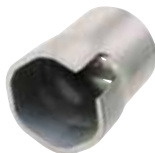


#### OTC6065

##### Tie Rod Socket for Medium-Duty Trucks

- Accommodates a 1/2" drive impact wrench

Removes tie rod ends on Chrysler, Ford, and GM 1-ton trucks. It also works on many medium-duty trucks, Class 2 through 6.



Innovative autobody tools and equipment



#### STC71470

##### Tie Rod Coupler

- Ability to temporarily steer a damaged vehicle that suffered a broken tie rod during a collision
- Temporary steering fix saves tow drivers up to 15 minutes allowing them to secure car on roll back
- Tie Rod Coupler I-bolt set screws secures the coupler to the broken tie rod by tightening set screws



#### STC71465

##### Tie Rod Pliers

- Tie Rod Pliers' unique design with a socket end and pointed spindle end allow easy wheel pivoting
- Tough alloy steel C-Clamp locking pliers provide a quick temporary steering repair for vehicles
- Tie Rod Pliers provides temporary fix by reconnecting the ball and socket tie rod ends



#### KITI71561

##### Pitman Arm Puller, Ball Joint Separator, Tie Rod and Front End Service Tool Kit

- Professional front end service tool set makes it easy to separate pitman arms, tie rods, and ball joints without damage
- 5 tools are in different shapes and sizes and can remove even the most stubborn ball joints/ tie rods/ pitman arms
- Made of heat-treated alloy steel for strength and durability
- All tools are packed in a convenient ABS carrying case
- Individual pieces covered by a lifetime warranty

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## STEERING & SUSPENSION

### Pitman Arm Tools



#### SCH14900 Sheppard Steering Box Pitman Arm Popper

- Fits short & long sector shafts with bolt or nut arm attachment
- Forged and heat treated alloy steel "C" frame puller
- Fine threaded pressure bolt reduces effort
- Ball bearing tip pressure bolt protects sector shaft end
- Fits Sheppard Box #s: M80, M90, M100, M110, 292, 392, 492 & 592 found in Chevy / GMC, Freightliner, Kenworth, Mack, Navistar, Paccar, Peterbuilt, Volvo and many other HD truck & construction configurations

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#### SCH11880 Heavy Duty Pitman Arm Remover

- Remove pitman arms on 3/4 & 1 ton trucks with restricted access to steering gear box
- Heavy duty forged "popper" services the pitman arm in the vehicle; gear box removal is not required on most models
- Services GM, Ford and Dodge 2- and 4-wheel drive trucks with heavy duty steering boxes
- Reduces component service time, increasing job profitability
- Tool requires less space and torque when compared to standard jaw pullers



#### SCH68800 GM Pitman Arm Remover

- Remove Pitman Arm on C and K series trucks and SUVs without removing the steering gear box
- Services 1988 to 2000 GM vehicles and other manufactures with similar gear box designs
- Pitman Arm "Popper" easily removes the arm with the steering gear box still mounted in the vehicle
- Heavy duty Chromoly (chromium-molybdenum) steel design is durable and easy to use
- Reduce component service time increasing job profitability



#### KDT2289 Pitman Arm Puller

- Puller removes full-size Pitman arms
- Puller has a drop-forged and heat-treated steel yoke
- Screw size 5/8"-18 thread

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#### KT170360 Pitman Arm Puller

- Tool provides steady, smooth pull of a screw type puller needed for bigger jobs
- Heavy duty yoke is drop forged from alloy steel
- Both yoke and center screw are heat treated
- Weight: 2.1 lbs.



#### KT170365 Professional Pitman Arm Puller

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#### LIS41900 Pitman Arm Puller

- Heavy duty puller works on most cars and trucks
- Designed to work on even the most stubborn Pitman arm pulling jobs
- Position puller jaws over Pitman arm and turn center screw to free Pitman arm
- Puller body is drop-forged and heat-treated for strength



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#### LIS41970 Pitman Arm Puller

- For 2005 and later Ford F250, F350
- Jaws are forged and heat-treated
- Heavy duty puller for large pitman arms



A heavy-duty puller for the large Pitman arms on Ford 250 and 350 trucks. Jaws are forged and heat-treated for strength. Position puller jaws under the Pitman arm, turn center screw to remove.

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#### OTC6296 Pitman Arm/Tie Rod End Puller

- The versatile design allows this tool to be used as a Pitman arm remover for many small, domestic rear wheel drive vehicles
- Can also be used as a tie rod end puller for many domestic and import vehicles
- The jaws, with a spread of 1", give a positive grip in tight work places



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## STEERING & SUSPENSION

### Pitman Arm Tools



#### OTC6496

##### Pitman Arm Puller

- Compact design of puller allows easy access to the Pitman arm
- Live center on forcing screw and easy use of a standard wrench results in less effort required
- Tool is forged steel for durability and long life
- This tool helps to cut removal time from 3-1/2 hours to 40 minutes!

Works on the following four-wheel-drive vehicles:

- 1998 - 2002 Lincoln Navigator
- 1997 - 2002 Ford F-150 and Expedition
- 1991 - 2001 Oldsmobile Bravada
- 1991 - 2001 S10/S15 GM Trucks and Blazers
- 1992 - 2002 Suburban
- 1988 - 2002 GM and Chevy 1/2-, 3/4- and 1-ton pickups
- 1992 - 2002 Chevy Tahoe and GMC Yukon

#### OTC8149

##### Conical Pitman Arm Puller for Compact and Intermediate Cars

- Conical Pitman Arm Puller designed for strength
- Large 3/4-16 X 4-3/4 forcing screw for power
- Designed to fit Pitman arms on smaller cars
- Larger forcing screw for more power and strength
- Designed to pull stubborn pitman arms



#### OTC8150

##### Conical Pitman Arm Puller - Light Trucks

#### OTC7310A

##### Pitman Arm Puller for Medium and Heavy Duty Trucks

- This puller is designed for the toughest Pitman arm jobs
- Adjustable and have rugged forged jaws shaped to fit the job
- Two clamp bolts lock the jaws on the Pitman arm ensuring a solid grip
- Includes an adapter for added versatility
- Covers a variety of pulling jobs
- Maximum jaw spread: 2-1/4"



#### OTC7311A

##### Pitman Arm Puller for Cars and Light Trucks



#### OTC6497

##### Super Duty Pitman Arm Puller

- Pitman arm can be removed while steering gear is on vehicle
- 3-1/4" spread handles the large Pitman arms
- 2 clamp bolts lock the jaws for secure grip
- Works on 2005-current Ford Super Duty trucks, F-350 and F-450



TIG10389

TIG10385

#### Pitman Arm Pullers

- Eliminates dangerous hammering and cutting torch methods
- May be used with up to a 3/4" impact tool
- High strength steel casting designed for high-capacity pulling

#### TIG10385 - Sheppard M100 Style

#### TIG10389 - Sheppard M110 Style



#### TIG20175

##### Pullers 10102, 10803 and Case

- Features two of our most popular tools for servicing heavy-duty drivelines
- Reduces the risk of damage to driveshafts, yokes, joints and bearing cups
- Engineered for use with up to a 1" impact wrench
- Stay organized with our high-density foam-filled case
- Kit includes: 1 x 10102 Heavy Duty Universal Joint Puller; 1 x 10803 Heavy Duty Yoke Puller



#### TIG20388

##### 10385, 10386, 10388, 10389 & Case

- All of our Pitman Arm tools in one convenient service kit
- Kit includes: 1 x 10385 Sheppard M100 Pitman Arm Puller; 1 x 10386 Pitman Arm Spreader; 1 x 10388 Intermediate Pitman Arm Puller; 1 x 10389 Sheppard M110 Pitman Arm Puller
- Eliminates dangerous hammering and cutting torch methods
- Manufactured from high-strength steel for strength and durability
- Stay organized with our high-density foam-filled case

## STEERING & SUSPENSION

### Pitman Arm Tools



#### TIG20102

##### 10102, 10104, 10201, 10217 & Case

- Features the necessary tools for servicing U-joints on virtually all class 3 to 8 intermediate and heavy-duty trucks and buses
- Kit includes: 1 x 10102 Heavy Duty Universal Joint Puller; 1 x 10104 Intermediate Universal Joint Puller; 1 x 10217 Bearing Cup Installer - SPL 140/170/250 Series; 1x 10201 Bearing Cup Installer - Traditional Bolt Retained
- Tools are manufactured from high-strength steel for strength and durability. Even the most seized u-joints can be serviced with the 20102 U-Joint Service Kit
- Stay organized with our high-density foam-filled case



### Forks & Separators

#### AST78807

##### 5 Piece Pickle Fork Ball Joint Separator Set

- Solid construction
- Used to remove ball joints, tie rods, pitman arm, and other linkages
- One piece design ensures durability, rigidity, and complete transfer of hammering forces
- Included are the following sizes to fit most automotive applications: Open Size – 11/16", 15/16", 1-1/16", 1-7/16", and 1-5/8". Depth – 2-3/4" (69.8mm), 3" (76.2mm), 2-7/8" (73mm), 2-3/8" (63.5mm), and 3-1/8" (79.3mm)



#### KDT2287

##### 12" Ball Joint Separator 15/16" Opening

- Tool separates ball joint from steering knuckles
- Separator is forged to withstand hard usage
- Over all length: 12"
- Constructed with the highest quality components under the most stringent manufacturing guidelines



#### KDT3916

##### Universal Ball Joint Separator

- For separating ball joint from the spindle support arm on domestic and import front wheel drive vehicles
- Adjustable for different size ball joints
- 1-1/8" and 2-1/8" (30mm and 56mm) maximum opening capacity



#### LIS41500

##### Ball Joint / Tie Rod / Pitman Arm Separator Set

- For separating ball joints, tie rods, Pitman arms and other uses
- Six tools in one for exceptional versatility and value
- All forks are threaded to interchange with either handle
- Forks are heavy-duty forgings
- Handles are heat-treated alloy steel

Kit Includes: 41510 handle, 41520 pneumatic driver, 41530 1 1/8" fork, 41540 15/16" fork and 41550 11/16" fork in a clam shell package.

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#### KT171501

##### Tie Rod Separator, 11/16"

- Use to replace worn out tie rods and separate shock absorber links
- Tine opening is 11/16"



#### KT181995

##### Tie Rod Separator Air Chisel



#### KT171502

##### Ball Joint Separator, 15/16"

- Use to replace worn out ball joints and to remove CV drive shafts on FWD vehicles • Tine opening : 15/16"



#### KT181996

##### Ball Joint Separator Air Chisel

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## STEERING & SUSPENSION

### Forks & Separators



#### LIS41220

##### 5 Piece Thick Pickle Fork Kit

- The thicker fork design provides extra lift when replacing worn out ball joints, pitman arms, pickup track bars and other applications
- Forks are threaded to interchange with either the handle for hammering or the pneumatic driver (.401 Shank) and a 6-1/4" extension that works with either handle to provide extra reach
- The forks are heavy-duty forgings and the handles are heat-treated alloy steel
- Sizes include: 11/16", 15/16", 1-1/8", 1-7/16" and 1-5/8"

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#### LIS41440

##### 5 Piece Stepped Pickle Fork Kit

- Step design on the forks keeps the tool from bouncing back when separating ball joints, steering dampeners, tie rods, pitman arms and other applications
- Forks are threaded to interchange with either the handle for hammering or the pneumatic driver
- Forks are heavy-duty forgings and the handles are heat-treated alloy steel • Fork steps can be sharpened
- Sizes include: 11/16", 15/16", 1-1/8", 1-7/16" and 1-5/8"

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#### LIS41400

##### Stepped Pickle Fork Kit

- Kit includes one handle for hammering and one for use with an air hammer (.401" shank)

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#### LIS18530

##### 11-7/8" Ball Joint Separator 15/16" Opening

- This tool is used to replace worn out ball joints
- Also can be used to remove CV driveshafts on FWD vehicles
- The opening is 15/16" and the length is 11-7/8"
- Drop forged and heat-treated for long use

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#### OTC4559

##### Manual/Pneumatic Pickle Fork Set

- Use to separate ball joints, tie rods, and Pitman arms
- Set contains two handles: knurled handle allows use of a hammer; smooth handle fits in a pneumatic hammer
- Three sizes of pickle forks included: 1-1/8", 15/16", and 11/16"



#### OTC6299

##### 5 Piece Separator Set

- Used to remove shock linkage, tie rods, and ball joints
- Also great for general service on many cars and light trucks
- Set includes: OTC6531 – Size 11" x 1-1/8" Fork Spread; OTC6532 – Size 11-3/4" x 1-5/8" Fork Spread; OTC6533 – Size 11-5/8" x 1-7/16" Fork Spread; OTC6534 – Size 16" x 11/16" Fork Spread; OTC6535 – Size 16" x 15/16" Fork Spread.

#### OTC6297

##### Ball Joint Separator

- This tool is used to separate the ball joint from the spindle support arm
- Works on many domestic and import front wheel drive vehicles, and is adjustable up to 2" for different size ball joints



#### OTC6535

##### Ball Joint Separator

- Ball joint service is easier with this tool
- Designed to remove ball joints from spindle support arms
- Can be used on a wide variety of vehicles, from compact cars to light duty trucks
- 16" long and has a 15/16" fork spread



## STEERING & SUSPENSION

### Forks & Separators



#### OTC6533 Separator Tool

- Will remove camber adjustment sleeves on Ford pickups that have an adjustable camber
- Also a separating tool for tie rods on medium and heavy duty trucks
- Works as a Pitman arm wedge on light trucks
- 11-5/8" long with a 1-7/16" fork spread



#### MLK609033 Ball Joint Separator

- Fast and damage-free removal of ball joints
- Rugged and flat design
- Comes with 3 interchangeable forks (24, 27 and 31mm)
- Completely drop forged
- Used for Audi, VW, BMW, and Mercedes Benz
- Comes with Vibro-Impact reaction screw, making your work quick and safe



#### MAY31940 5 Piece Pneumatic Separating Fork Set

- Used to wedge between linkages, knuckles, and joints quickly and easily
- Heavy duty alloy steel
- Black oxide finish for additional rust protection
- .401 parker shank
- Lifetime warranty



#### SGT91025 Tie Rod Separator Tool

- Made from a single piece of drop forged alloy steel
- Jaw opening between tapered prongs is 21/32"

### Ball Joint Service Kits & Tools



#### AST7865 Ball Joint and 4 Wheel Drive Service Tool Kit

- The heavy duty tool set is excellent for removal and installation of press-fit parts such as ball joints, universal joint and truck brake anchor pins
- Remove even rusted and corroded parts

Set includes: C-frame press, 3 receiver tubes sizes: 2-3/4" x 3", 2-1/4" x 2-1/2" and 1-3/4" x 2", installation and removing adapters: 4-wheel drive ball joint service kit that allows service for 1967 thru current 1/2 and 3/4 ton 4WD vehicles having the Dana 44 front axle (found on Ford, GM, Dodge, IHC and Jeep vehicles).

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#### AST7868 Master Ball Joint Adapter Set

- Includes all the receiving tubes and removing/installing adapters needed to work on most GM, Ford and Dodge 2-wheel and 4-wheel drive pick-ups, vans and sport utility vehicles through 1997
- Works on press fit upper and lower ball joints
- Set also includes live center forcing screw plug
- Blow molded case for easy storage and transport
- Fits 1-1/8", 1-1/4", 1-5/16", 1-3/8" Pulley Hub Diameter

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## STEERING & SUSPENSION

### Ball Joint Service Kits & Tools



**AST7897  
Ball Joint Service Tool  
and Master Adapter Set**

- Removes and replaces ball joints
- C Frame press alone can be used to remove and replace universal joints
- Also included is the #2030-1 live center forcing screw plug
- Blow molded case for easy storage and transport

Set includes all the receiver tubes and removing/installing adapters needed to work on press-fit upper and lower ball joints on most GM, Ford, and Dodge 2 and 4 wheel drive Pickups, Vans and Sport Utility vehicles through 1997.



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**CTA3755  
10 Point Honda/Acura Rear  
Trailing Arm Socket, 19mm**

- Lower rear control arm socket
- 1/2" drive



**CTA4006  
Chrysler Ball Joint Socket 1-59/64**



**CTA4007  
Chrysler Ball Joint Socket 2-9/64**



**LIS43620  
Ball Joint / Truck Brake Anchor Pin / U-Joint Press**

- Tough tool makes easy work of 3 different jobs:
  - Removes and installs press fit type ball joints found on cars and light trucks
  - Tool makes removing and installing truck brake anchor pins fast and easy
  - Also works on u-joints to press joint from the drive shaft for replacement



**KTI71556  
Ball Joint Service Tool  
and Master Adapter Set**

- For removing and replacing ball joints
- Remove and replace universal joints by using the C-Frame press
- Includes one live center forcing screw, receiver tubes, and removing/installing adapters
- Packaged in a red blow-mold case for storage and carrying

Ball joint service tool and master adapter contains: all new receiver tubes and removing/installing adapters required to work on a press-fit upper and lower ball joints on most Ford, GM, and Dodge 2 and 4 wheel drive pickups, vans and sport utility vehicles through 1997.

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**KTI71555  
Ball Joint Master Service  
Adapter Add On Set**

- Kit includes all receiver tubes and removing/installing adapters needed to work on most GM, Ford, and Dodge 2WD and 4WD pick-ups, vans and sport utility vehicles through 1997
- Works on press fit upper and lower ball joints

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**KTI71550  
Ball Joint Service Set 4 in 1**

- Removes and installs press fit parts, such as ball joints, universal joints and truck anchor pins without makeshift techniques
- Includes three receiver tubes (2-3/4" ID x 3" OD, 2-1/4" ID x 2-1/2" OD and 1-3/4" ID x 2" OD)

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## STEERING & SUSPENSION

### Ball Joint Service Kits & Tools



#### KDT31430

##### 9 Piece Bushing Remover/Installer Set 1-5/8" to 1-3/4"

- Remove and insert bushings such as those in cars, trucks, buses, tractors, construction and off - road equipment
- Size is stamped on each bushing adapter
- All included in a plastic blow molded case

This 9-piece bushing remover and installer set includes the following bushing adapters: 1-5/16" to 1-7/16"; 1-11/32" to 1-1/2"; 1-7/16" to 1-9/16"; 1-1/2" to 1-5/8"; 1-9/16" to 1-11/16"; 1-9/32" to 1-3/4"; and 1-3/4". Also includes driver and driver nut.

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#### OTC6530

##### Ball Joint Super Set

- Combines the popular OTC7249, OTC7918 and OTC7996 ball joint sets into one SUPER set
- Comes complete with an application cross reference and instructions in a blow-molded case
- This assembly enables the user to remove and install ball joints without removing the control arm from the vehicle
- The OTC designed and produced C-frame tool can be used alone to remove and replace universal joints
- Every tool you need to complete ball joint service

This set allows for the removal and installation of press-fit ball joints on many GM and Ford light-duty trucks, vans and SUVs through 2003; Dodge light trucks through 1998; Dodge vans, Durango and Dakota through 2003; and Honda Accord, Civic, del Sol, and Prelude through 2001.



#### OTC6539

##### Truck Master Ball Joint Service Kit

- This 55+ piece kit covers press-in ball joints on Trucks/Vans/SUV's
- Application cross reference and instructions included
- Complete master set
- Adapters are designed for specific vehicles
- Shows what adapters are required and how to use them when servicing ball joints

This 55+ piece kit covers press-in ball joints on the following Truck/Van/SUV applications; Toyota, Hyundai, KIA, Infiniti, Isuzu, Nissan, Chrysler, Dodge, Jeep, Plymouth, Mitsubishi, Ford, Lincoln, Mercury, Mazda, Chevrolet, Buick, Oldsmobile, Pontiac, Cadillac, GMC, Hummer. Information at your fingertips – the comprehensive manual includes diagrams with instructions - eliminating guesswork of which adapters are required. New Truck/Van/SUV kit with manual covers vehicles thru 2008.



#### OTC6529

##### Car Master Ball Joint Service Kit

- Finally, a complete ball joint service kit for cars
- Master Ball Joint Service Kit with 50+ adapters
- Includes all adapters for applications up to 2008+
- Includes reference guide thru 2008 referencing press fit or bolt in ball joints
- Kit contents can be used for general removal and installation of many press fit components

Also includes adapter application diagrams and charts, and quick reference charts.

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## STEERING & SUSPENSION

### Ball Joint Service Kits & Tools



#### OTC6559

##### Ball Joint Master Service Set

- The 6559 Ball Joint Master Service Kit offers complete coverage of Car and Truck/Van/SUV applications. With 70+ adapters, c-frame and application guide means there is nothing else to add for servicing ball joints.
- The majority of vehicles have press-in ball joints, so stop searching for make-shift solutions for servicing these vehicles - everything required is laid out in this one complete kit.
- With a kit of this magnitude, finding the correct adapters and using them correctly is key to minimizing service time. That is exactly what the included ball joint application guide is designed to do - contains application charts and diagrams with step-by-step instructions. Coverage up to 2008 model year.



#### OTC7918

##### Master Ball Joint Adapter Set

- Includes receiver tubes and removing installing adapters needed to work on most GM, Ford, and Dodge two- and four-wheel drive vehicles, through 1997. Application chart included
- Works on press-fit upper and lower ball joints
- Set also includes the No. 7917 live center forcing screw plug, and a plastic storage/carrying case

This set was created specifically to expand the capability of your No. 7249 ball joint service set. It includes all the receiver tubes and removing/installing adapters needed to work on press-fit upper and lower ball joints on most GM, Ford, and Dodge 2- and 4-wheel-drive pickups, vans, and sport utility vehicles, through 1997.

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#### OTC8031

##### Jeep/Truck Ball Joint Set

- A complete set of adapters and special large C-frame to remove and install ball joints
- High clearance, specially designed and produced OTC large C-frame allows for the repair of the most recent vehicles
- Large C-frame, 19 adapters, and replaceable forcing screw tip to allow the use of the adapters in the OTC6530 kit to be used for other applications
- Kit comes in a blow molded case and includes an application chart and instructions

Serves most Chrysler/Dodge light-duty trucks, 1999-2006 and Jeep Cherokee, Wrangler, and Liberty vehicles, 1997-2006.

## STEERING & SUSPENSION

### Ball Joint Service Kits & Tools

# OTC



#### OTC7249

##### Ball Joint Service Tool Set

- The tools in this set will press in, or out, most sizes of press-fit ball joints
- The C-frame can be used alone to remove and replace universal joints

Contains: C-frame press, 3 receiver tubes (2-3/4" I.D. x 3" O.D., 2-1/4" I.D. x 2-1/2" O.D., and 1-3/4" I.D. x 2" O.D.), installing adapter, removing adapter and plastic carrying case, Weight: 15 lbs., 3 oz.



#### OTC7894

##### Dodge Ram / Jeep Ball Joint Service Adapter Kit

- Use with the No. 7249 ball joint set to remove or install aftermarket and original equipment upper and lower ball joints, and the offset ball joints used to change caster/ camber
- Works on: 1984-newer "downsized" Jeep Wagoneer and 2WD and 4WD Cherokee and Comanche; 1987-newer Jeep Wrangler; 1990-newer Jeep Renegade; 1993-newer Jeep Grand Cherokee; 1994-newer Dodge Ram 1/2-ton 4WD pickup

# OTC



#### OTC6731

##### Ford Ball Joint Adapter Update Kit

- Use with an OTC ball joint press to remove and install upper and lower ball joints in various Ford vehicles
- Includes 1 installing cup
- Includes 2 receiving cups

Three piece kit contains specialty ball joint adapters for use with the industry standard OTC 7248 C-Frame. The OTC6731 is designed to work with the following Ford vehicles: Ford F-150 1997-2003, F-250 1997-2004, F-350 1992-2004, F-450 1999-2002, F-550 1999-2002, Ford Excursion 2000-2004, Ford Expedition 1997-2002, Ford Explorer 1995-2004 and Ford Ranger 1998-2004.



#### OTC7704

##### 4WD Ball Joint Service Kit

- For use on 1967-current 1/2- and 3/4-ton 4WD vehicles having the Dana 44 front axle (found on Ford, GM, Dodge, IHC, and Jeep vehicles)

#### OTC5053

##### Mack Kingpin Socket

- Designed for 1/2" square drive ratchet or breaker bar, the socket that fits the slotted adjusting screw in tapered kingpins used on most Mack front axles (12,000 to 20,000 lbs.)



# OTC



#### OTC29504

##### Ball Joint Receiver Tool 2-1/2in. OD 2-1/4in. ID

- 2-1/2" outside diameter, 2-1/4" inside diameter



#### OTC8033

##### Chrysler 1-59/64" Small Ball Joint Socket

- Similar to Miller Tools No. C-3560
- Socket is 2" long with a 3/4" drive
- Fits 1-59/64" ball joints

Removes and installs the screw-in type ball joints used on mid-size, rear-wheel drive Chrysler cars.



#### OTC8034

##### Chrysler 2-9/64" Large Ball Joint Socket

- Socket is 2" Long
- The drive size is 3/4"
- Fits 2-9/64" ball joints
- Similar to Miller Tools No. C-3561

This tool is made to remove or install the screw in type ball joints, used on Chrysler or Dodge light trucks and vans.



#### OTC7825

##### Ford Ball Joint Remover

- Weight: 1 lb., 5 oz.

This tool enables you to quickly remove the lower ball joint on 1992 to current 3/4" and 1 ton vans (E-250 and E-350) when used with ball joint service set Nos. 6530,7248, and 7249.

## STEERING & SUSPENSION

### Ball Joint Service Kits & Tools

# OTC



#### OTC7080 1" Drive Ball Joint Spanner Wrench

- Tool permits easy torquing with 1" socket for proper upper ball-joint pre-load
- Weight: 8 oz

Designed for removal and installation of ball joint adjusting sleeves on 1/2, 3/4 and 1 ton Dana 44 open yoke front axles found on Ford, GM, Chrysler, International and Jeep 4WD vehicles.



#### OTC7491C GM Upper Control Arm Knock-Out Tool

- Removes the inserts on the upper control arm alignment brackets of light duty GM trucks
- Features an indexed forcing bolt that pulls straight and evenly, and works with off-center knock-outs

The tool fits 1989–2001 Chevrolet and GMC 1/2-, 3/4-, and 1-ton trucks, two- or four-wheel drive. Also works on 1990–2001 all-wheel drive Chevrolet Astro vans and GMC Safari vans, 1997–2002 1/2-, 3/4-, and 1-ton full size vans.



#### OTC6007 Lower Control Arm Prying Tool

Installing a ball joint on a lower control arm typically requires the effort of two people. However, with this tool and our OTC7420 or OTC7421 pry bar, it's a one-person job.

# OTC



#### OTC7503HD Heavy Duty Tie Rod and Ball Joint Remover

- Works on FWD, RWD, and 4WD import and domestic vehicles
- Twice the load capacity (10 ton) as the original 7503 puller
- Uses a large 3/4" live center forcing screw with interchangeable tips included; cone, flat, and cup, for multiple applications
- 3" Jaw Spread
- 4" Reach



#### OTC7068 Upper Control Arm Bushing Service Set

- Includes all adapters needed for quick bushing removal/installation without removing control arm from vehicle
- Mechanical screw power quickly removes the worn bushing and installs the new one without damaging the control arm
- Includes C-frame, screw assembly, and all adapters and inserts necessary to do the job correctly

Now you can easily replace press-in type upper control arm bushings on most rear wheel drive Ford, GM, and Chrysler vehicles.

# SUNEX TOOLS



#### SUN10213 3/4" Drive Ball Joint Socket 1-59/64"

- Removes and installs the screw-in type ball joints used on mid-size, rear-wheel drive Chrysler cars
- Fits 1-59/64" ball joints
- Forged from Chrome Vanadium steel



#### SUN10214 3/4" Drive Ball Joint Socket 2-9/64"

- Removes and installs the screw-in type ball joints used on Chrysler/Dodge light trucks and vans
- Forged from Chrome Vanadium alloy steel
- Fits 2-9/64" ball joints

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# SK

PROFESSIONAL TOOLS



#### SKT84688 3/4" Drive 1-7/8" Ball Joint Chrysler Impact Socket

- SureGrip® hex design drives the side of the fastener, not the corner
- Improved black coating retains more rust preventative compound than black oxide
- Specifically designed for automotive applications
- Lifetime warranty



This ball joint impact socket has a 1.66" diameter and is 2.09" in length.

#### SKT84689 3/4" Drive 2-1/8" Ball Joint Impact Socket

- This ball joint impact socket has a 1.94" diameter and is 2.09" in length.

## STEERING & SUSPENSION

### Ball Joint Service Tools



**LIS43620**  
**Ball Joint/Truck Brake Anchor Pin/U-joint Press**

- Tough tool makes easy work of 3 different jobs
- Removes and installs press fit type ball joints found on cars and light trucks
- Tool makes removing and installing truck brake anchor pins fast and easy
- Also works on u-joints to press joint from the drive shaft for replacement
- Tool comes with detailed instructions

**LIS18980**  
**Pneumatic U-Joint Driver**

- Faster than using a press or chisel
- Will not damage drive shaft and axle shaft ears like a press and a chisel will
- Fits a wide range of U-Joint Caps, up to 1-5/16" diameter
- Use the driver with an air hammer to remove u-joint caps

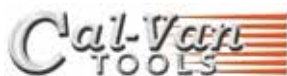


**LIS20400**  
**Universal Shock Absorber Remover/Installer**

- Tool to fit most all shock nuts
- 20400 fits most domestic models and some Ford OEM shock nuts
- Skin-packed • Shipping wt. 5 oz.



**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



**CAL199**  
**Heavy Duty U-Joint Puller**

- Used to remove the HD vehicle driveline U-joints on Class7 & 8 trucks using an impact wrench up to 1-inch
- Disassemble and reassemble U-joint cups without heat or hammering
- Larger diameter threaded shaft can handle U-joints that are severely seized and require higher force to pull and install
- Major tool components are heat treated for improved strength and durability
- Smoother thread allows for a lower, more consistent effort to rotate shaft

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



**KDT41690**  
**Front End Service Kit**

- Allows for easy removal
- 8 most used ball joints, tie rods and Pitman arms

Includes 20 x 140mm tie rod universal puller, ball joint separator, universal tie rod puller and universal tie rod remover.

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



**MLK432910**  
**Suspension Wear Indicator**

- Allows user to positively SEE, FEEL and HEAR problem areas while performing diagnostics
- Can be applied onto the steel with a special injection technique, allowing for the inspection of moving parts in the lower suspension of a vehicle on any surface
- It eliminates known struggles such as moving wheels in the unloaded condition, specially shaped tire irons, wood blocks, pry bars and etc

## STEERING & SUSPENSION

### Miscellaneous Suspension Tools



#### TIG10730

##### Service Kit for Low Air Leaf Pin & Bushing

- Easily remove and install the Freightliner Airliner and Peterbilt Low Air Leaf rubber isolated pin and bushing while the suspension remains on the vehicle
- 20 tons of pulling power
- Reduces the risk of damage to nearby components
- Manufactured from high-grade metals for strength and durability



#### TIG15000

##### Leaf Spring & Bushing

##### Service Kit - No Adapters Included

- Remove and install both rubber-isolated and threaded pins and bushings while the suspension remains on the vehicle. Requires a 10,000 PSI hydraulic pump and at least one adapter kit to operate.
- Capable of generating 20 tons of pulling strength, even the most seized and rusted pins and bushings don't stand a chance
- Components are machined and assembled in-house, undergo rigorous testing and receive multiple finishing treatments to ensure they endure even the toughest jobs



#### TIG15030

##### Freightliner Airliner

##### Rear Suspension Pin & Bushing Adapter

- Easily remove and install the Freightliner Airliner and Peterbilt Low Air Leaf rubber isolated pin and bushing while the suspension remains on the vehicle
- Designed for use with the 15000 Pin and Bushing Starter Kit



#### SCH12250

##### Ford 6.4L PS Diesel Turbo Arm Actuator Link Puller

- Reduce service time by separating the link and arm on the truck
- Remove 6.4L Power Stroke Actuator Link Rod from turbo arm without removing turbo
- Compact design provides access in tight areas
- Self-aligning with fine threaded pressure bolt for durability
- 2008 to 2010 Ford 6.4L Power Stroke Diesel Engines



#### CTA4045

##### GM Torsion Bar - Large

- Holds torsion bar while making adjustments
- Services 2011 and up HD C/K trucks
- Forged construction with bright blue body
- Holds torsion bar while making adjustments



#### OTC7248

##### U-Joint Removing/Installing Tool

- This helpful tool uses a forcing screw press to safely remove and replace automotive universal joints with needle bearings, including GM plastic pin CV U-joints



#### OTC7822A

##### GM Torsion Bar Unloading Tool

- Rugged tool is built for GM's K-3500 series trucks with heavy duty chassis and a larger torsion bar
- It features a larger C-frame opening to accommodate beefier torsion bars
- The tool holds the torsion bar while you make adjustments
- Also works on 1988 to 2003 GMC and Chevrolet 1/2, 3/4 and 1 ton pickups; the S-10 Blazer and S-15 Jimmy, 4WD pickups with 4.3L V-6 engines; and 1991 to 2001 Oldsmobile Bravada



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#### OTC7832

##### GM Torsion Bar Unloader

- Required to safely release the tension on the front suspension torsion bar to service the front suspension
- Larger design to cover the newer GM truck applications
- Application: 2011 and newer HD C/K trucks
- Similar to 7822A with larger design
- Limited Lifetime Warranty



## STEERING & SUSPENSION

### Miscellaneous Suspension Tools



#### OTC4244 Rear Suspension Bushing Tool

- Removes FAS II Airliner Freightliner Rear Suspension bushings in a fraction of the time of traditional methods
- Handles Neway AD Series Truck and Tractor suspension bushings
- Saves on average 45 minutes per bushing (4 per vehicle) on flat rate of 1.5 hours per bushing
- 15-ton capacity cylinder • Limited lifetime warranty

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#### OTC4245 Rear Suspension Bushing Master Kit

- Includes 2510A air/hydraulic pump



#### OTC4247 Hendrickson Suspension Bushing Master Kit With Pump

- Tool includes adapters to align it to bushing axis to reduce likelihood of improper installation
- Includes a high force 25-ton cylinder for hard-to-remove bushings. Also includes the OTC Stinger Series 2510A Air/Hydraulic Pump, with a Hose and Coupler

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#### OTC6730 Large C-Frame Adapter Kit

- Adapters designed to be used with Large C-Frame Assembly OTC 521808
- Adapters used to make Large C-Frame Assembly fit the ball joint adapters found in the 6530 Master Ball Joint Kit
- Used with OTC 8031 SUV/Truck Ball Joint Adapter Kit
- Made of sturdy steel construction



For use with the large C-Frame (OTC 521808) that is found in the OTC 8031 SUV/Truck Ball Joint Adapter Kit, and the ball joint adapters found in the 6530 Master Ball Joint Kit.

### Strut Compressors

**Branick**  
INDUSTRIES, Inc.



#### BRA7600 Branick 7600 Strut Spring Compressor

- Doesn't require adaptors
- Multi-position hooks
- Heavy duty Acme thread
- Versatile mounting options
- Easy to use

Since the mid-80s we have been the tool of choice. Now the new OEM approved Model 7600 handles even tough applications like the Jeep Cherokee Trailhawk, RAV4, F-150, and GM pickups/SUVs... without the need for adaptors. The multi-position upper spring hooks are adjustable up to 4", in 1" increments, giving the Model 7600 the flexibility to fit difficult coil spring configurations while its long handles provide extra torque to make compression easier.

**JACK TECH**

#### JCTSK3000 Strut Spring Compressor

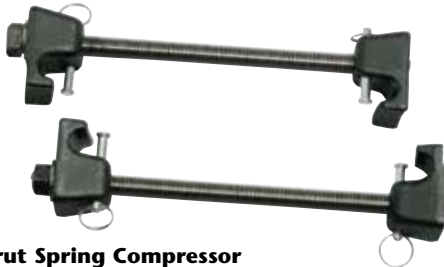
- Designed to increase the capacity to hold and compress any type or size of struts and springs
- Equipped with 14" holding vice and 20.5" high which can be adjusted to fit and compress any types of strut in upright or upside down positions
- One man operation system that takes less than 10 seconds to compress spring
- Universal adjustable holding arms prevent spring from popping out
- Patented Rack and Pinion gear and patented Double Clutch Disc systems provide maximum stability and safety as well as durability and longevity



## STEERING & SUSPENSION

### Strut Compressors

#### GW GEARWRENCH



##### KDT3387

##### MacPherson Strut Spring Compressor

- Use this tough tool for quick and easy replacement of struts, springs and shock absorbers
- Compresses springs both on or off the vehicle with hand or power tools
- Maximum capacity: 6" (outer diameter)
- Wire diameter: 5/8"
- Instructions are included with this tool

This tool allows you to quickly compress coil spring to replace shock absorber, spring sets, repair bent strut or strut tube and repair damaged spindle. No other clamps or devices are needed.



##### KDT3450

##### Coil Spring Compressor for up to 5-5/8" Springs

- Use tool to remove and install automotive coil springs up to 5- 5/8" outside diameter
- Designed to grasp a spring with a maximum 3/4" wire diameter
- Can be used on straight or curved springs
- Forged alloy steel arms hug contour of helix

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**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

##### LIS62300

##### McPherson Strut Tool

- Safe - universal - inexpensive
- Fits all strut spring sizes, import and domestic
- Heavy duty clamps and bolts, for a secure hold
- Clam-shell Package
- Shipping wt. 6 lbs. 3 oz.
- Not for use on coil over spring applications



##### KTI70370

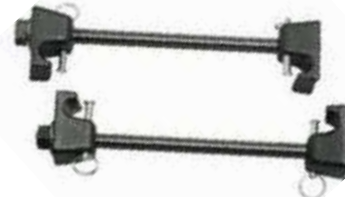
##### McPherson Strut Spring Compressor

- Works on most MacPherson strut assemblies and is used with replacements
- Use the compressor when replacing bent strut or strut tube and damaged spindles
- Use on or off vehicle
- Acme threaded screw for durability
- Not for use on GM "A", "C", "J" or "X" body cars

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Made in U.S.A.



##### KTI70371

##### MacPherson Heavy Duty Strut Spring Compressor

- Works with most MacPherson strut assemblies to quickly assist in replacement of bent struts, strut tubes and damaged filters while on or off the vehicle
- Tool manufactured with ACME threaded screw for durability

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##### KTI70375

##### Coil Spring Compressor

- Single action tool boasts strong, steel jaws that securely hook into coil springs for their removal and installation
- Works with most domestic and some imported vehicles
- Should not be used on MacPherson struts • Weight: 3.5 lbs.

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



Made in U.S.A.

##### KTI70372

##### Universal Strut Spring Compressor

- Services a wide range of MacPherson struts without the need to use special adapter shoes
- Jaws are held in place by safety lock pins
- Tool can be driven by hand or with an impact wrench
- Compresses springs ranging from 4" - 9" O.D. with wire diameters of 7/16" - 11/16"
- Packaged in a blow molded storage case • Lifetime warranty

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## STEERING & SUSPENSION

### Strut Compressors

# OTC



#### OTC6637

##### Strut Tamer II Extreme

- New forged locking jaws includes larger pads and offset to clamp onto and compress springs even tighter than before
- New extra thick 5/8" compression arms for superior strength, stability and safety
- New locking trunnions for optimal stability during spring compression
- Spring Capacity: 2-1/2" to 10" Diameter, 1-1/4" to 24" Vertical Stroke, Gear Reduction: 2:1 Torque Compression
- Meets the new ASME PASE safety standards for spring compressors



The 6637 Strut Tamer II Extreme sets a new standard in strength and safety for strut spring compressors. This unit meets the new ASME PASE safety standards for spring compressors and is capable of safely compressing the largest strut springs. A replacement for the Strut Tamer Extreme with improvements designed to provide quick and safe strut service for technicians.



#### OTC6494

##### Clamshell Strut Spring Tool

- Safety locking pins hold the compressor jaws in place
- Tool compresses springs of 4" to 9" O.D., with wire diameters of 7/16" to 11/16"
- Built to use with an impact wrench

Servicing MacPherson struts is convenient and affordable with this compressor. It fits a wide range of struts and requires no special adapter shoe.

# OTC



#### OTC6637-ST

##### Strut Tamer II Extreme with Stand

- New forged locking jaws includes larger pads and offset to clamp onto and compress springs even tighter than before
- New extra thick 5/8" compression arms for superior strength, stability and safety
- New locking trunnions for optimal stability during spring compression
- New arm-locking rings eliminate the need for tools to adjust
- Includes stand with wheels for easy mobility in the shop

The new standard in strength and safety for strut spring compressors. This unit meets the new ASME PASE safety standards for spring compressors and is capable of safely compressing the largest strut springs. The 6637-ST includes the Strut Tamer II Extreme and stand with wheels to move around the shop and save space.

Spring Capacity: 2-1/2" to 10" Diameter, 1-1/4" to 24" Vertical Stroke, Gear Reduction 2:1 Torque Compression



#### OTC7294

##### MacPherson Strut Spring Hook Compressor

- These devices compress sizes of MacPherson strut springs
- Compression is achieved by alternating from one assembly to another
- Each device has a heat treated alloy thrust screw (5/8" - 11 x 12") with forged hooks

## STEERING & SUSPENSION

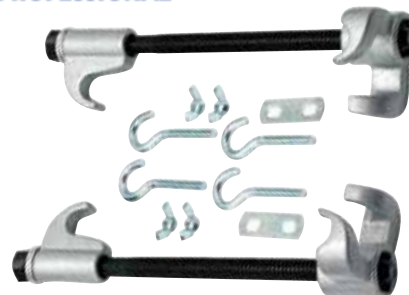
### Strut Compressors



#### TIG90102 Strut Compressor

- Safely and efficiently removes and installs the spring-over steering stabilizer found on most self-steering axles.
- Eliminates dangerous ratchet strap and pry-bar methods.
- Built in measuring device enables accurate installation; 15"-25" center-to-center working range.
- Patent-pending design features 3/4" hex drive engineered for use with up to a 1/2" impact tool

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#### SGT63000

#### The Strutter® 2, MacPherson Strut Coil Spring Tool with Acme Threads

- With Acme threads and economically priced
- Quickly and easily work on the MacPherson Struts found on virtually all modern domestic and imported vehicles
- Consists of two cold headed bolts made of chromium molybdenum alloy steel - the nuts are Grade 5
- Use with impact wrench ON or OFF the car
- Contains complete instructions and safety kit

NOTE: Not for use on any unusually large MacPherson Strut springs which have a coil outside diameter of over 6" or a wire diameter larger than 5/8". Do not use on General Motors "A," "C," "J" or "X" Body cars.

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#### SGT62900 The Strutter® MacPherson Strut Coil Spring Tool

- Can be used with impact wrench or hand tool
- Used ON or OFF the car! Sells for a fraction of other types
- Each set contains complete instructions and a safety kit
- The one piece cold headed bolts are made of chromium- molybdenum alloy steel
- The nuts are Grade 5

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#### SGT62200 Single Action Coil Spring Compressor

- Remove, install and compress coil springs that can be reached through the center of the coil
- Smooth bearing action and finest quality heat treated steel makes for safe, quick compression
- Single turning action on central shaft
- Use with a hand operated ratchet wrench to pull arms closer together

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#### SGT62400 Spring Compressor Ns 120294 Mdd

- Remove, install and compress coil springs that can be reached through the center of the coil.
- Smooth bearing action and finest quality heat treated steel make for safe, quick compression.
- Single turning action on central shaft.
- Tool fits inside spring then use with a hand operated ratchet wrench to pull arms closer together.
- Shaft has Acme threads and an overall length of 6"

## STEERING & SUSPENSION

### Strut Compressors



#### SGT62500

##### Single Action Coil Spring Compressor Kit

- Remove, install and compress coil springs that can be reached through the center of the coil
- Smooth bearing action and finest quality heat treated steel makes for safe, quick compression
- Single turning action on central shaft
- Fit tool inside spring
- Use with a hand operated ratchet wrench to pull arms closer together. A front end shop must!!!

Kit combines capabilities of SGT62200 and SGT62400 at almost half their combined price! Handles standard, compact and sub compact vehicles. Consists of standard single action tool plus shorter shaft for smaller vehicles.

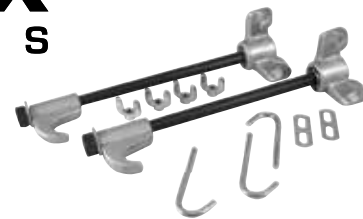
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#### SIRST9050

##### Portable Strut Master Strut Compressor

- It is portable for convenient use both on and off the car
- Exclusive self contained compressor is designed with fully adjustable jaws
- Portability with the power of a work station model
- It has a wide coil spring and strut application range
- Equipped with the first of its kind, exclusive safety latch mechanism



#### SUN3903

##### 2 Piece Spring Compressor Coil Springs

- Strong steel jaws securely hook into coil springs
- Use on or off the car
- Acme rod turning screws for strength and accurate adjustment

Remove, install and compress coil springs that can be reached through the center of the coil. Smooth bearing action and finest quality heat treated steel makes for safe, quick compression.



#### SUN3904

##### 3 Piece Strut & Coil Compressor

- Durable plastic coating
- Ideal for removal and installation of auto and light truck coil springs
- Strong steel jaws securely hook into coil springs
- Use on or off the vehicle



#### TPRT3300

##### Techny EZ Strut Spring Compressor

- Ball bearing equipped slide for smooth operation
- Compressing arms with pivoting head
- Stationary and movable locking jaw
- Pivoting screws bring bearing in-line for ease of insertion of new strut
- Portable, save time by conveniently rolling the Techny EZ Strut Compressor tool to any job site



## STEERING & SUSPENSION

### Strut & Alignment Tools



#### CTA3039 14 Piece Shock Absorber Tool Kit

- Comprehensive kit for repairing and replacing shock absorbers
- Components manufactured from Chrome Vanadium
- Contains 7 go-through deep sockets: 16/17/18/19/21/22/24mm, three 1/2" Hex bits sizes 6, 7 & 8mm, one sliding T-bar
- Also contains: two slot bit sockets 5x8mm & 6x8mm, and one 21mm Hex Go Thru ratchet.
- Packed in blow mold case

#### CTA1080 Mercedes Strut Nut Socket

- Removes and installs the top shock retaining nut on W203 body Mercedes vehicles
- 2-pin design with 22mm hex body



#### CTA2867 Twin Camshaft Holder Audi / VW

- Special bars lock camshafts relative to each other during timing belt and tensioner service, or when removing crank bolts
- Use with CTA 2872 TDC Lock Pin Tool
- Applications: VW/Audi V6 2.7L and 2.8L with 5 valves per cylinder



#### DOWTC614 Tomcat Camber Adjustment Tool

- "Makes Camber Adjustment a One-Man Job"
- Works on many GM and Chrysler vehicles using two-bolt lower strut mounts
- Inflatable air bladder fits between tire and strut for easy and controlled adjustment of camber settings
- Eliminates the need for special camber bolts
- Includes: 2' air hose and bladder, low pressure pop-off valve to prevent overinflating and air control valve for inflating and controlled deflating

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#### OTC7045B Front Coil Spring Compressor

- Fits most late-model rear wheel drive domestic vehicles in which the coil springs are between the upper and lower control arms
- Features four case-hardened, self-aligning plates to ensure correct load distribution under tension
- Includes two 3-3/8" ID plates and two 4" ID plates
- Will not work on Mercedes Benz vehicles

## STEERING & SUSPENSION

### Strut & Alignment Tools

## STEELMAN®

**JSP78554**

#### 39 Piece Strut and Shock Installation/Removal Kit with Case

- Used for repairs and maintenance on front suspension struts and shocks
- Used for clamping the piston rod when removing and installing the shock absorber
- Precise torque can be attained when tightening the shock absorber piston rods
- Chrome Vanadium sockets and hardened bits



## OTC

**OTC9798**

#### Quick Coupler

- Built to withstand high pressure
- No oil loss when disconnecting the hose
- 3/8" NPTF



This is one of many accessories sold separate for high pressure power units. This is precision built and designed for high pressure. It permits disconnecting hose without loss of oil. It's very handy and simple to use.



**OTC7829**

#### Ford Camber/Caster Adjustment Wrench

- Has a 21 mm, 12-point design
- Accommodates a 1/2" drive ratchet or breaker bar

This wrench is specially bent to fit on the caster/camber adjusting cam on 1995 to 2001 Ford Explorer 4WD SUVs, and 1997 2WD and 4WD F-150 pickups.



**OTC7840**

#### GM Camber/Caster Adjustment Tool

- For use on 1993 and newer Chevrolet Camaro and Pontiac Firebird
- Instructions included

When caster/camber adjustment is necessary, this tool fits into the holes in the cross-member and lower control arm. Simply turn the turnbuckle nut on the tool to hold the proper adjustment. This allows you to quickly and easily tighten the adjusting bolts in the cross member.

## TOOL AID®

TOOLS FOR THE PROFESSIONAL



**SGT61800**

#### Strut Alignment Level

- Super strong magnet - mounts on brake rotor, spindle or steering knuckle
- Easy to read, unbreakable bubble level
- Camber settings from -3° to +3° for additional adjustment
- Works on all vehicles equipped with MacPherson struts
- Can remain on the vehicle during repair, or can be removed

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## STECK

Innovative autobody tools and equipment



**STC71410**

#### Axle Popper Wedge and Shim Kit

- Axle Popper's wedge forked end (71411) applies even pressure to both sides of the shaft for sure release of the shaft
- It is versatile as the tapered ends of the fork allow the technician to strike the Axle Popper Wedge or use it as a pry bar to release the half shaft
- The Shim (71412) is included to fill the gap between the half shaft and the transaxle on some vehicles

## DRIVE SHAFT & AXLE

### Hub Tools



#### MLK433918 Aluminum Wheel Hub Grinder - Trucks

- Special grinder used to clean the wheel rim contact surface, designed for vehicles with stud bolts
- Corrosion is removed quickly and easily
- Stud Grinder for Trucks
- 8-point
- Comes with 1-basic unit and 10 discs

⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



#### MLK433618 Aluminium Wheel Hub Grinder - Type 2

- Special grinder used to clean the wheel rim contact surface, designed for vehicles with stud bolts
- For use on cars with studs
- Corrosion is removed quickly and easily
- Velcro and 8 points keep the disc inside the holder without turning
- Comes with 1 basic unit and 10 discs



#### MLK433502M 6" Wheel Hub Grinder Type 1 (1 Holder + 1 Disc)

- Special grinder for cleaning the wheel and hub contact surfaces
- Burned in corrosion residues are completely removed in a quick and easy process
- Actual process time per hub about 3 to 25 seconds depending on residue thickness



#### MLK433507 Inner Rim Cleaner

- Works easily with cordless drill or air drill
- Includes on base unit and one disc
- For optimal cleaning of the inner wheel contact surface
- Prevents corrosion related distortion of wheel bolt tightening torque and allows you to completely remove burnt in corrosion
- To be used only on the inside of an aluminum rim, particularly the inner area prior to wheel balancing

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#### OTC6575-3 Hub Grappler™ Hydraulic Kit

- Simply install the supplied drive screw through the ram and Hub Grappler cross block and hook up shop air to the pump
- The Hub Grappler is now ready to hydraulically power out the most stubborn wheel bearings quickly and easily

Kit includes a through hole ram, air/hydraulic pump, 6' hose with couplers, drive screw and nut.

#### OTC7208A Hub Remover

- Used to push the axle shaft from the front hub
- Includes a spare locknut, permits use with the 1177 slide hammer
- Weight: 2 lbs., 7 oz.
- Used for servicing front-wheel-drive cars



#### OTC6574 Universal Hub Puller HD with Plate

- Adjustable sliding legs can be positioned anywhere
- Wide range of 4" to 8"+ bolt circle
- Forged puller assembly with 1" drive screw capable of 20 tons of force
- Drive screw approved for use with an impact gun and can be struck with a hammer



⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

#### OTC5085 Hub Oil Seal Puller

- Eliminates bearing and hub damage that can occur when a punch and hammer is used to remove the seal
- Extra long 28" handle provides leverage, unique pulling head design quickly and easily removes the seal in one piece
- Built from the highest quality heat treated steel
- Removes hub seals on trailer and truck axles, including truck steering axles



⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

## DRIVE SHAFT & AXLE

### Hub Tools

# OTC



#### OTC6575

##### OTC Hub Grappler™ Wheel Bearing Puller

- Used to service wheel hubs and bearings on the car
- New puller design increases applied force and rated for use with an impact gun
- Can be used on either the front or rear application
- Eliminates the need to re-align the vehicle
- New jaws are designed and sized to properly fit hub applications
- No need to remove steering components or knuckle



#### OTC6575-2

##### Hub Tamer™ to Grappler Update Kit

- The new jaws are designed and sized to properly fit hub
- Hub Grappler Application Guide included
- Includes the Hub Grappler Puller, 6 new adapters
- Kit includes everything to update the previous Hub Tamer Kit to the New Hub Grappler kit

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#### OTC6575-1

##### Hub Grappler Puller

- The new jaws are designed and sized to properly fit hub applications and can be quickly located on the puller bar without the use of fasteners
- The new 3/4" custom drive screw coupled with the special equalizer washer provides smooth operation while the proprietary heat treating extends its life 5-10 times longer than similar designs
- The new Hub Grappler Puller is specifically designed to apply maximum force with minimal effort from an impact gun to also minimize service time New and improved design

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# OTC



#### OTC6576S

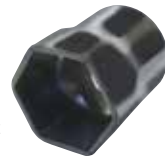
##### Dodge Hub Service Set

- Two methods of removal which includes removal of the hub with the aid of the power steering, and removal of hub with the aid of the Hub and Bearing Puller (included)
- Unique design makes this a one person operation to remove the hub with the bearing in tact
- 6576 fits Dodge 3/4 and 1 Ton 4WD 1994-Present applications
- 6577 fits Dodge 3/4 and 1 Ton 4WD 1994-Present applications
- Also fits GM and Ford 4WD Truck hubs

#### OTC6612

##### Heavy-Duty 54mm Hex Locknut Socket

- Feature a 1/2" square drive 54mm hex locknut socket designed for use on front wheel adjusting nuts found on Toyota FJ, LN, and RN models Can be used with an extension and torque wrench for accurate tightening



#### OTC8342

##### Hub Resurfacing Kit

- For most domestic and import vehicles with either front or rear disc brakes
- Includes holder and five sanding discs
- Run at speeds of 10,000 rpm or less for best results. (Do not exceed 10,000 rpm)



# Lisle



#### LIS61850

##### 5 Piece Truck Hub Seal Installer Kit

- Fits the Most Popular Size Seals for Class 7 and Class 8 Trucks
- The driver is designed to hold the seals to make installation easier
- Includes five drivers and handle extension for extra reach
- For driving seals on hubs with deep brake drums without removing the drums
- Fits trailers and some medium duty trucks

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## DRIVE SHAFT & AXLE

### Hub Tools



#### PBT70970

##### Hub Clamp Expander

- Allows easy removal and installation of struts and ball joints
- Interchangeable spreaders prevent damage to aluminum or cast iron hubs
- Adjustable for use on hubs with centralized or non centralized slotSuits domestic and import vehicles
- Allows on vehicle repair



#### TMRMI982

##### 2" Rotor and Hub Cleaning Tool Kit

- Works with Electric Drill
- Includes Hub Cleaner Tool, 2" Replacement Pads (10 pieces), and 2 replacement Velcro Rings
- Surface Prep Discs are made from Weaved Nylon with Grain - Medium Grit

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#### TMRMI987

##### 2" Replacement Pads for TMRMI982

- 10 pack of surface prep discs - medium grit
- Pads made from weaved nylon with grain
- 2 Velcro attaching pads included
- Use with TMRMI982



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#### TIG90150

##### Heavy Duty King Pin Press

- Remove king pins in minutes with relative ease and efficiency. The patented design of the 90150 King Pin Press weighs 75% less than our closest competitor and requires only one operator to use
- Three different forcing screw options are included, providing the technician the ability to service everything from 3/4 ton pickups to Class 8 trucks. A shortened 1 1/4" forcing screw allows you to access king pins in the tightest wheel wells - even on busses
- Our three most popular tie rod end removers are also included: 10301, 10302 and 10304
- Application: for use on straight and tapered king pins from 7/8" to 2 5/32"
- Isuzu NPR and GMC/Chevrolet W-series trucks require a custom adapter: 90150-15. Not compatible with FL981 axles where the tie rod is cast to the spindle



#### LTILT830A

##### Universal Hub Shocker Puller

- Redesigned cutout for all five-six-eight lug applications
- Stronger mounting holes
- 3/4" heavy duty steel back plate
- Flanged nuts for improved safety and performance
- 1/4" square tubing, 1/4" striking plate

## DRIVE SHAFT & AXLE

### Locknut & Specialty Sockets



#### KT171920

##### Locknut Socket Set, 7 Piece, 1/2" Drive

- Wheel Bearing Locknut Socket Set, 7 Piece, 1/2" Drive, Includes Hex and Rounded Hex, in Case

**KT171921 - Locknut Socket 55mm Hex**

**KT171922 - Locknut Socket 2-3/8" Hex**

**KT171923 - Locknut Socket 2-1/2" Hex**

**KT171924 - Locknut Socket 2-1/2" Rounded**

**KT171925 - Locknut Socket 2-3/4" Rounded**

**KT171926 - Locknut Socket 2-9/16" Rounded**

**KT171927 - Locknut Socket 2-3/8" Rounded**

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# SUNEX<sup>®</sup>

## T O O L S



#### SUN2847

##### 7 Piece Wheel Bearing Locknut Set

- For use with 1/2" ratchet or breaker bar
- Will provide the sockets needed to handle most popular applications
- Heavy duty blow molded case

Set includes sizes: rounded hex: 2-3/8", 2-1/2", 2-9/16", 2-3/4"; 6 point hex: 2-3/8", 2-1/2" and 55mm.

# OTC



#### OTC4542

##### 7 Piece Wheel Bearing Locknut Socket Set

- For use with a 1/2" ratchet or breaker bar
- Sockets will work on a variety of automobile manufacturers

Set includes: hex locknut sockets 55 mm, 2-3/8" and 2-1/2" rounded hex locknut sockets 2-1/2", 2-3/4", 2-9/16" and 2-3/8"

# Lisle



#### LIS29900

##### 4 WD Bearing Lock-Nut Tool

- Full tooth engagement is designed not to slip
- Fits 4-slot 2-1/2" lock rings used on common 4-WD trucks
- Use with 1/2" drive
- Not for use with impact wrench
- See application chart for uses

#### LIS27250

##### 4 Slot 1/2" Drive Bearing Lock Nut Tool

- Not for use with impact wrench
- Chevy 1/2, 3/4, 1 Ton 4WD front 60-72
- Chevy 1/2, 3/4 4WD front 73-84
- Chevy 1 Ton 4WD rear 73-81
- Chevy 3/4 & 1 Ton 2 & 4WD rear 46-72
- Chevy 1 Ton 4WD front 77-81
- GMC 1/2, 3/4, 1 Ton 4WD front 60-72
- GMC 1/2, 3/4 4WD front 73-84
- GMC 1 Ton 4WD rear 73-81
- GMC 3/4 & 1 Ton 2 & 4WD rear 46-72
- GMC 1 Ton 4WD front 77-81
- Ford Bronco II 4WD - except Dana 44 Thru '90
- Ford F100, F150, F250 under 8500 lb. - except Dana 44 80-96
- Ford F350 over 3500 lb. axle 86-96
- Dodge W150, 250 3500 lb. axle 69-97

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#### LIS27400

##### 6 Slot 1/2" Drive Bearing Lock Nut Tool

- Not for use with impact wrench
- Chevy 6 lug with 10/50 dia., ring gear 80-91
- GMC 6 lug with 10.5 dia., ring gear 80-91
- Chevy 1/2, 3/4, 1 Ton 4WD front 60-72
- Chevy 1/2, 3/4 4WD front 73-84
- Chevy 1 Ton 4WD rear 73-81
- Chevy 3/4 & 1 Ton 2 & 4WD rear 46-72
- Chevy 1 Ton 4WD front 77-81
- GMC 1/2, 3/4, 1 Ton 4WD front 60-72
- GMC 1/2, 3/4 4WD front 73-84
- GMC 1 Ton 4WD rear 73-81
- GMC 3/4 & 1 Ton 2 & 4WD rear 46-72
- GMC 1 Ton 4WD front 77-81
- Ford Bronco II 4WD - except Dana 44 Thru '90
- Ford F100, F150, F250 under 8500 lb. (Except Dana 44 80-96)
- Ford F350 over 3500 lb. axle 86-96
- Dodge W150, 250 3500 lb. axle 69-97

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#### LIS28000

##### 1/2" Drive Ratcheting Double Ended Bearing Lock Nut Tool

- Two tools in one - Small end fits Ford 1986 to 1994 light trucks with Dana 44 front axle
- Large end fits 1985 and newer Ford F150 - F350 trucks with the Dana 80 full floating rear axle

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## DRIVE SHAFT & AXLE

### Locknut & Specialty Sockets



#### GRE8370

##### 3/4" Drive 7 Piece Truck Pinion Locknut Set

- Extra-thin wall deep length impact sockets for removing/ installing transmission and differential end yoke locknuts
- Can be used on a wide variety of trucks
- Packaged in a metal case
- Lifetime Warranty
- Use caution and follow the manufacturer's recommendations when servicing these parts

Set includes: 2", 2-1/8", 2-1/4", 2-3/8", 2-1/2", 2-5/8" and 2-3/4".

## SUNEX<sup>®</sup> TOOLS

#### SUN4667

##### 7 Piece 3/4" Drive Truck Pinion Locknut Impact Socket Set

- For removing or installing transmission and differential end yoke lock nuts on most trucks
- Forged from chrome molybdenum alloy steel
- Packaged in a heavy duty blow molded case
- Fully guaranteed

Set includes: 2", 2-1/8", 2-1/4", 2-3/8", 2-1/2", 2-5/8" and 2-3/4".

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#### SUN2838

##### 4 Piece 1/2" Drive Deep Spindle Nut Impact Socket Set

- Deep design for GM and Chrysler spindle nut applications
- Forged from the finest chrome molybdenum alloy steel – the best choice for strength and durability
- Fully guaranteed
- Packaged in a heavy duty bow molded case

Set includes:

**SUN2800** - 30mm

**SUN2832** - 32mm

**SUN2834** - 34mm

**SUN2802** - 36mm

## GW GEARWRENCH<sup>®</sup>



#### KDT41650

##### Axle Nut Service Kit

- 7 extra long 1/2" Drive 6 point metric sockets are ideal for heavy duty use in removing and installing axle nuts
- Use with a ratchet, breaker bar, impact wrench, or torque wrench
- Includes: 29, 30, 32, 34, 35, 36, and 38mm
- Packaged in a blow molded case with laminated instruction cards or stickers integrated into case design for handy reference of application information

Applications: 30mm Axle Nut Socket - services GM body styles A, J, and N, plus Asian imports 36mm Axle Nut Socket - services many GM, Ford, and Chrysler full-size vehicles 32mm Axle Nut Socket - services late model Honda and Chrysler vehicles 34mm Axle Nut Socket - services many GM mid-size vehicles 29mm Axle Nut Socket - services late model GM, Ford, and Asian imports 35mm Axle Nut Socket - services many GM vehicles 38mm Axle Nut Socket - services various full-size vehicles including SUVs

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#### KDT41660

##### Spindle Nut Service Kit

- 1/2 in. drive sockets used for most 4WD SUV and light truck axle locknut applications
- Off corner loading on drive pins for increased strength
- Use with a torque wrench, ratchet, or breaker bar
- Made of chrome vanadium steel
- Packaged in a blow molded case with laminated instruction cards or stickers integrated into case design for handy reference of application information

#### KDT2467

##### Octagon Spindle Nut Wrench 3-7/8"

This four-lug wrench removes spindle nuts on 1/2-ton 4-wheel-drive vehicles. Use with 1/2" square drive tool. Wrench fits spindle nut on Chevy, 1/2-ton GMC, Blazer, Bronco, Bronco 11, Ranger, Explorer, 1/2- and 3/4-ton Ford, spline-type hub, IHC 1100 series and 1/2-ton Dodge vehicles. Will work on Ford vehicles with ratcheting type lock nuts on front axle.



## DRIVE SHAFT & AXLE

### Locknut & Specialty Sockets



#### **KDT2770** **4 Wheel Drive 1/2" Square Drive Spindle Nut Wrench**

- Outer diameter: 2.60"; Inner diameter: 2.23"
- Length: 2.94"
- Inside depth: 2.375"



Used for the following applications: 1973-1981 GM 3/4 and 1 Ton 4WD trucks; 1978-1984 Ford F250-350 Trucks; 1984-1992 Ranger, Bronco with manual hubs; 1990-1993 Dodge Trucks with Dana 44.

#### **KDT3246** **Ford F250/350 Trucks Spindle Nut Wrench**

- Length: 3.24"
- Outer diameter: 2.63", Inner diameter: 2.27"



Use with 1/2" square drive tool. Will work on Ford vehicles with ratcheting type lock nuts on front axle. Ford F250 heavy-duty axles, 1985 to current models; F350 heavy-duty axle 4 x 4, 1985 to current models; and 1987 Chevy 30 Series along with DANA 501FS and model 60 mono-beam axles. This is not to be used with power tools.

#### **KDT3195** **Ford F250/350 Trucks Spindle Nut Wrench**

- Use on 1985 to current Ford F250-350 with Dana 80 rear axle, and 10-1/4" ring gear
- Use on 1987 E350 to current with Dana 80 rear axle and 10-1/4" ring gear
- Use on 1988 to current F super duty with Dana 80 rear axle and 10-1/4"
- Use with 1/2" square drive tool



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#### **1/2" Drive Spindle Nut Socket**

- Heat treated, chrome plated, chrome vanadium
- 6 point deep • Carded



**KTI28229** - 29mm      **KTI28230** - 30mm

**KTI28230** - 30mm      **KTI28234** - 34mm

**KTI28235** - 35mm      **KTI28236** - 36mm

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#### **CTA1083** **Ford Transit Rear Hub Nut Socket**

- Heavy-Duty 4 point specialized impact socket for removing the rear hub nut on RWD Ford Transit
- The alignment shaft allows accurate placement onto the castle nut
- Services 2014 & up Ford Transit vehicles
- Comparable to Ford Factory Tool #205-1007



#### **CTA1724** **Toyota Front Hub Nut Socket**

- For the removal and installation of the front hub lock nut on 2007 & Up 2WD Toyota Trucks
- Applications include Toyota 4Runner 2WD (2007-2014), Sequoia (2008-2014) & Tundra (2007-2014)
- 3/4" square drive



#### **OTC1929** **2-5/8" Bearing Locknut Spanner Wrench**

- Six lug, spanner-type wrench removes and installs rear wheel bearing locknuts
- Built for use with a 3/4" square-drive ratchet or breaker bar
- Wrench for servicing Chevrolet and GMC 5,200 and 7,200 lb. axles



#### **OTC1930** **2-7/8" Bearing Locknut Spanner Wrench**

- Six-lug, spanner-type wrench to remove and install rear wheel bearing locknuts
- Built for use with a 3/4" square-drive ratchet or breaker bar
- Wrench for servicing Chevrolet and GMC 11,000 to 13,500 lb. axles



#### **OTC1931** **3-5/8" Tubular Spanner Wrench**

- Six lug, spanner-type wrench removes and installs rear wheel bearing locknuts
- Built for use with a 3/4" square-drive ratchet or breaker bar
- Wrench for servicing Chevrolet and GMC 15,000 lb. axles; 17,000 lb. 2 speed axles; 15,000 lb. trailing axles



## DRIVE SHAFT & AXLE

### Locknut & Specialty Sockets



#### AXLE/LOCK NUT SOCKETS

Size	6 PT		8 PT		
	1/2" Drive	3/4" Drive	3/4" Drive		
1-11/16"	OTC6006				
2-3/32"		OTC1901 INT18501	KAS1201		
2-1/4"	OTC7157		OTC1920 INT18520	KAS1220	
2-3/8"	OTC6936		OTC1902 INT18502	KAS1202	OTC1903 KAS1203 INT18503
2-3/8"		OTC1936 INT18536	KAS1236		
2-1/2"	OTC6921 OTC7158	OTC6795	OTC1921 INT18521	KAS1221	
2-9/16"	OTC6928		OTC1904 KAS1204 INT18504	OTC1928 KAS1230 INT18528	OTC1905 KAS1205 INT18505
2-5/8"			OTC1922 INT18522	KAS1222	
2-3/4"	OTC6601 OTC7269	OTC6796 OTC7796	OTC1923 KAS1223 INT18537	OTC1937 INT18523	KAS1244
2-13/16"			KAS1227		
2-7/8"			OTC1932 INT18532	KAS1232	OTC1933 INT18533
3"			OTC1906 INT18506	KAS1206	OTC1907 KAS1207 INT18507
3-1/8"			OTC1934 INT18534	KAS1234	OTC1935 KAS1235 INT18535
3-1/4"			OTC1908 INT18508	KAS1208	OTC1909 KAS1209 INT18509
3-3/8"					OTC1924 KAS1225 INT18524

vehicle | SPECIALTY

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**OTC7270A**  
Ranger and Bronco FW Bearing  
Locknut Socket, 1/2" Square Drive

Services 1984 - 92 Ford Ranger and Bronco II with manual hubs;  
1986 - 95 Ford F-series 1/2 ton truck; full size Bronco with Dana  
44 front axle; 1990-93 Dodge trucks with Dana 44 automatic hubs.



**OTC7698**  
Locknut Socket

- 1988-newer Isuzu Trooper, Rodeo, Amigo, and pickup;
- 1989-newer Honda Passport; and Jeep J20 pickups  
with Dana 60 axle

## DRIVE SHAFT & AXLE

### Locknut & Specialty Sockets

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AXLE/LOCK NUT SOCKETS					
Size	6 PT		8 PT		
	1/2" Drive	3/4" Drive	3/4" Drive		
3-1/2"		OTC1910 KAS1210 INT18510	OTC1911	KAS1211	INT18511
3-3/4"		OTC1926 KAS1228 INT18526	OTC1925	KAS1226	INT18525
3-13/16"			OTC1927	KAS1229	INT18527
3-7/8"		OTC1912 KAS1212 INT18512	OTC1913	KAS1213	INT18513
4"		OTC1914 KAS1214 INT18514			
4-1/8"		OTC1915 KAS1215 INT18515	OTC1940	INT18540	
4-3/16"			OTC1941	INT18541	
4-3/8"		OTC1916 KAS1216 INT18516	OTC1917	KAS1217	INT18517
4-7/8"		OTC1918 KAS1218 INT18518	OTC1919	KAS1219	INT18519
4-1/2"			OTC1938	KAS1239	INT18538
5-1/4"			OTC1939	INT18539	
30MM	LIS39500	KDT3161			
32MM	LIS39700	KDT3270			
34MM	LIS39750	KDT3449			
36MM	LIS39550				
54MM	OTC6612	OTC7612	KAS1231		
59MM			KAS1238		



**OTC7941  
FW 4 Pin Toyota  
Bearing Locknut Socket**

- Similar to Toyota No. 09318-12010-01
- Works on 1995 and newer Tacoma, and 1996 and newer T100 and 4Runner



This wrench's four-pin design accommodates the four holes in each locknut, which prevents slippage under high torque requirements.

**OTC7090A  
Ford Trucks Bearing Locknut Socket**

- Use on 1973-81 GM 3/4- and 1-ton trucks
- Use on 1978-84 Ford F-series H.D. 3/4 and 1-ton 4WD trucks
- 6 Ear locknut socket



**ASSENMACHER  
SPECIALTY TOOLS**  
ASTTOOL.COM



**ASSTOY288  
Toyota Front Hub Nut Socket**

- Comparable to Toyota Factory Tool # 09318-12010-8 Pin
- Comparable to Toyota Factory Tool # 09602-60010
- R & R of the Front Hub Lock Nut on Toyota Trucks (2WD) 2007-newer
- Applicable to Toyota
- Made in U.S.A.

Applications included: 2007 - 2014 Toyota - 4Runner 2WD 2008 - 2014 Toyota - Sequoia 2007 - 2014 Toyota - Tundra

## DRIVE SHAFT & AXLE

### Axle Tools



#### SCH14200

##### Universal C-Clip Remover

- Remove axle/u-joint c-clips with pneumatic hammer
- Remove front & rear wheel drive axle u-joint c-clips
- Remove 4 wheel drive axle u-joint c-clips
- Pneumatic hammer drives c-clip out of rusty, dirty u-joint cap grooves
- Made of durable 4130 heat treated steel for long life

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#### SCH13000

##### Staked Axle Nut Punch Kit

- 2 Piece Punch Kit services Staked Axle Nuts found on many American, Asian & European 2 & 4 wheel drive vehicles
- Punches are driven by a Air Hammer reducing service times
- Release punch tip is designed to access and release the axle nut crimp without damaging the axle or axle threads
- Stake punch re-crimps the axle nut similar to factory installations
- Tool bag included



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#### CTA8065

##### Large Bearing Splitter

- Removes generator gears, bearings, bearing cones and similar parts where ordinary puller jaws will not reach.
- May be used with CTA Gear Puller No. 8015 and 8020
- Features forged separators with knife edges to minimize damage to parts.
- Range: 0 -4-1/4" (0-108mm)



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#### CTA8099

##### 10 Ton Push Puller

- For use with CTA and other brands of Bearing Splitters when removing and installing Gears, Bearings, Shafts, Pulleys and other press-fit parts
- Spread: 2-1/8 to 7-1/4"
- Screw Size: 3/4 - 16 x 12
- Reach: 8-1/4"



#### LIS12800

##### Master Pneumatic Bearing Race and Seal Driver Set

- This master set contains 11 drivers to fit automobiles and trucks up to 1 ton
- Includes two handles, one for hammering and one for use with an air hammer
- The drivers can be used on both bearing races and seals
- All set contents are packaged in a blow molded case
- The set weighs 6 lbs. 11 oz.

Sizes include: 1.565, 1.750, 1.965, 2.325, 2.555, 2.830, 2.995, 2.470, 4.625, 3.813 and 3.180. To add the pneumatic handle to your current set order a LIS12820 pneumatic driver.



#### CTA8600

##### Adjustable Gland Nut Wrench - Small

- Fits hydraulic cylinders with gland nuts from 1" to 3-3/4" (25 - 95mm)
- Reverses to work on 1/4" - 7/32" pinholes
- Use with 1/2" square drive tools



#### CTA8605

##### Adjustable Gland Nut Wrench - Large

- For hydraulic cylinders with gland nuts from 2-6" / 51-152 mm (pin to pin)
- Reverses to work on 17/64" or 21/64" pinholes
- Use with 3/4" square drive ratchet or breaker bar

## DRIVE SHAFT & AXLE

### Axle Tools



#### LIS59400

##### Pinion Bearing Race Driver Set

- Set includes 8 drivers for driving inner and outer pinion bearing races
- For use on 1/2 and 3/4 ton Ford, Dodge and GM pickups
- Use the extended two-piece handle for driving rear pinion bearing races
- A pneumatic handle is also included for use with an air hammer

Sizes include: 2-11/16" 2-27/32", 2-7/8", 3", 3 1/4", 3 1/2", 3 3/4", 4 1/8"

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#### LIS56950 Magnetic Pinion Shaft Seal Installer

- Ideal for driving pinion seals into place
- Hollow adapter allows for driver to slide over shaft to drive seal
- Neodymium magnets hold seal in place until you are ready to drive into place
- Adapter is double-sided for different sized seals; works on many applications, especially Ford SUV pinion shaft seals
- Can also be used on standard seals



Tool is made from aluminum to make it lightweight and allow more driving power to transfer. Metal cap is replaceable.

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#### LIS12600

##### Bearing and Seal Installer

- Makes it easier to insert bearing race quickly, straight in on first try
- Helps reduce damage to both race and axle housing
- Six disc sizes fit most bearing race sizes
- Turn discs over to drive seals
- Clamshell package
- Shipping wt. 1 lb. 10 oz.



#### KTI70380

##### Rear Axle Bearing Puller Kit

- Make easy work of removing semi planting rear axle bearing
- Set includes three sizes to service most domestic cars

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#### KTI70383

##### Bearing Separator, 1" to 2-1/4"

- Removes generators gears, bearing cones, bearings and similar parts that puller jaws cannot reach
- Designed to reduce risk of damage to part
- Flush knife-edge blades get behind work where most puller jaws cannot fit or grip
- Manufactured with high quality, heat-treated steel
- Spread: 0" to 2-1/4"; threaded holes: 3/8" - 16"

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#### KTI70384

##### Reversible Puller and Bearing Separator, 1" - 4-1/4"

- Spread: 0" - 4-1/4"

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#### KTI70382

##### Bearing Separator, 0" to 4-1/4"

- Remove generator gears, bearing cones, bearings and other similar parts that puller jaws cannot reach
- Threaded holes are 5/8" - 18
- Can be used with KTI70312

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#### OTC7494A

##### Rear Axle Bearing Puller Set

- Redesigned to make the removal of semi-floating rear axle bearings easier
- New design allows you to capture the bearing firmly, distributing the pulling force over the entire bearing
- Includes three pullers to service most domestic cars
- Use with OTC1155 or 1156 slide hammer with 5/8" - 18 UNF thread
- Set includes three pullers: 1 to 1-7/8", 1-5/16" to 2-3/8", 1-3/8" to 2-7/8"

## DRIVE SHAFT & AXLE

### Axle Tools

# SUNEX<sup>®</sup>

## TOOLS



**SUN185026**

#### 1/2" - 9" Bearing Splitter

- Splitter halves made of forged steel
- Sharp Angled edges allow user to get between tightly assembled parts
- Zinc plated Splitter halves inhibit rust
- Splitter halves include threaded holes for the acceptance of pushing/pulling attachments
- Black oxide coating on screw portion inhibit rust
- Amerequip™ bearing splitters are made of forged steel and coated to maximize the life of the tool. The sharp leading edge of the splitters help get in between tight areas.



## TIGER TOOL

International Incorporated

**TIG11001**

#### Axle Shaft Puller

- Fully adjustable pulling arms and stud adapters are quick and easy to install
- Includes most common 5/8" - 18 Axle Stud Adapter Set; additional adapter sets also available
- Reduces the risk of damage to axle studs



# Lisle



**LIS12980**

#### Bearing and Seal Installer Master Set

- Set includes 9 drivers
- Helps reduce damage to both race and axle housing
- Make it easier to insert bearings with this master set. This master set includes nine discs sizes to fit most standard wheel bearings. It's simple to use, it simply turns discs over to drive seals. Made with the quality and durability to last!

**⚠ WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# LANG

TOOLS  
Professional Tools For 4 Generations



**KAS2577**

#### 8 Piece Floating Axle Housing Thread Restorer Kit

- Aids in the servicing of front and rear floating axle housings on sport utility vehicles, light and medium duty trucks and vans
- Contains seven thread restorer dies and one driver socket to refurbish damaged or corroded spindle threads
- Spindle driver enables the technician to easily use individual thread restorers with a standard 1/2" drive ratchet wrench
- Application chart provides quick thread restorer die identification per vehicle

**⚠ WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# OTC

#### Bearing Splitters

- Features "knife-like" edges which are easily placed behind the part to secure a gripping surface, even when clearances are extremely limited
- When used with an OTC Grip-O-Matic® puller, puller jaws grip attachment's outer edge; when used with a Push-Puller, puller legs are threaded into the attachment's two tapped holes



Part Number	Max Spread	Min Spread	Application (use with puller numbers)
<b>OTC1121</b>	15/16"	1/4"	OTC1020, OTC1022, and OTC1023
<b>OTC1122</b>	2"	1/8"	OTC1024, OTC1025, OTC1026, OTC1027, OTC7392 and OTC7393
<b>OTC1123</b>	4-5/8"	1/2"	OTC1035, OTC1036, OTC1037, OTC1038 and OTC927
<b>OTC1124</b>	5-3/4"	1/2"	OTC1035, OTC1040, OTC1041, OTC1042, OTC1065, OTC1063 and OTC938
<b>OTC1130</b>	9"	1/2"	OTC1035, OTC1040, OTC1041, OTC1042, OTC1065, OTC1063 and OTC938

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## DRIVE SHAFT & AXLE

### Axle Tools

# OTC



#### OTC6695

##### Ford Axle Shaft Seal Installer

- Works on 1998 - 2004 Ford F-250, F-350, F-450, and F-550 4 x 4's having the vacuum-operated front axle
- Correctly installs the seal onto the axle shaft and into the wheel knuckle,
- Prevents front hub vacuum leaks that would cause the 4WD to not engage

#### OTC6697

##### Ford Axle Shaft Seal Installers

- Correctly installs the seal onto the axle shaft and into the wheel knuckle, preventing front hub vacuum leaks that would cause the 4WD to not engage
- Works on 2005-newer Ford F-250, F-350, 4X4s having the vacuum-operated front axle



#### OTC6698

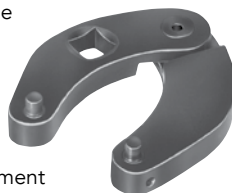
##### Ford Axle Shaft Seal Installers

- Works on 2005-newer Ford F-450, F-550, 4X4s having the vacuum-operated front axle

#### OTC1266

##### Adjustable Gland Nut Wrench

- Designed to fit hydraulic cylinders on most farm and construction equipment
  - Fits gland nuts from 2" to 6" diameter pin to pin
  - Reversible to fit 1/4" and 5/16" diameter pinholes
- Accommodates a 3/4" drive ratchet or breaker bar



#### OTC7077

##### Axle Stud Cone Pliers

- Now you can easily remove the tapered cone from studs used on medium- and heavy- duty truck rear axles
- This specially designed pliers gives you the leverage needed to expand the cone and remove it from the stud for axis removal



#### OTC09521-25011-01

##### Rear Axle Puller - Toyota

- T100, 4 Runner, Sequoia, LandCruiser, Tundra, Tacoma, Lexus, as well as select Nissan Mitsubishi and Izuzu models.
- Used to Pull the Front Axle Shaft Bearings in Toyota Trucks
- Used with 09521-25023-01.
- 09521-25011-01 Rear Axle Shaft Bearing Puller

# OTC



#### OTC7057

##### U-joint Remover Tool Set

- Works on 16N, 17N, 18N and 1710 series U-joints and spicer 1600-1610 to 1180 series U-joints
- Includes plastic storage box, No 1036 2-jaw puller and instructions
- Weight: 16 lbs., 3 oz

The service tool removes even the most rusted and corroded bearings easily and mechanically, without damage to costly U-joint components, even where the space is limited. It applies up to 7 tons of force to separate the yoke assemblies and remove bearings the right way. Far superior to sledghammer methods.

# SUNEX<sup>®</sup>

T O O L S



#### SUN212ZUMDL

##### Ford Driveline Socket - 12mm Universal Impact Socket For U-joints

- 12mm 12 Point Universal Impact Socket, 4-9/16" long
- Forged from the toughest steel, chrome molybdenum alloy
- Universal design makes it easier to work with
- Lifetime warranty



Will work on the following Ford models - Mustang, Crown Victoria, Taurus, Expedition, Excursion, Explorer, Ranger, F150 and all Mercury equivalents from 1980's to the present. It is not applicable for F250 and larger super duty trucks.

## DRIVE SHAFT & AXLE

### Axle Tools

# OTC



**OTC4295**  
**10 Piece Bearing Race and Seal Set**

- Permits installation of tapered bearing races and seals without damage to the component or housing
- Tapered side of driver is used to install races
- Invert the driver to the flat side to install seals

Includes: Driver handle with bolt, plus these tool sizes: 1.565", 1.750", 1.965", 2.325", 2.470", 2.555", 2.830", 2.995", and 3.180"

**OTC7248**  
**U-Joint Removing Installing Tool**

- Tool uses a forcing screw press to safely remove and replace automotive universal joints with needle bearings, including GM plastic pin CV U-joints



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**OTC4507**  
**10 Piece Bearing Race and Seal Set**

- Permits installation of tapered bearing races and seals without damage to the component or housing
- Tapered side of driver is used to install races
- Invert the driver to the flat side to install seals
- Set is housed in a blow-molded plastic storage case
- Weight 4lbs. 2oz.

Includes: Driver handle with bolt, plus these tool sizes: 1.565", 1.750", 1.965", 2.325", 2.470", 2.555", 2.830", 2.995", and 3.180"

# OTC



**OTC5190A**  
**Heavy Duty U-Joint Puller**

- Designed to fit all Class 7 and 8 trucks including a wide variety of drive-lines from Spicer and Meritor
- Improved material and heat treat on major components
- Larger diameter threaded shaft
- Improved strength and durability
- Compatible with: Spicer 1610, 1710, 1760, 1810, 1880, SPL 140, 170, 250. Meritor 16, 17, 18N, 1710, RPL20, 25

Can handle U-joints that are severely seized and require higher force to pull and install, tool will last longer thereby reducing tool replacement costs.

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**OTC7490**  
**U-Joint Remover Tool**  
**1/2" Drive**

- The pullers legs have holes for bolt storage
- Bolts included: 5/16"-24 x 1 1/2", 3/8"-24 x 1-1/2", 7/16"-20 x 1-1/2", M8-1.25 mm x 35 mm
- Works on most Dana Spicer and Meritor U-Joints - Except the Spicer Life series model SPL250X



**OTC4505**  
**19 Piece Bushing Driver Set**

- Enables you to remove and install bushings ranging from 3/8" to 1-3/8" in diameter, as used in cars, trucks, tractors, construction equipment, electric motors, and many other components having bushings
- Housed in a blow-molded storage case
- Weight: 3lbs 3oz

## DRIVE SHAFT & AXLE

### Axle Tools

# AP Astro



#### AST7824

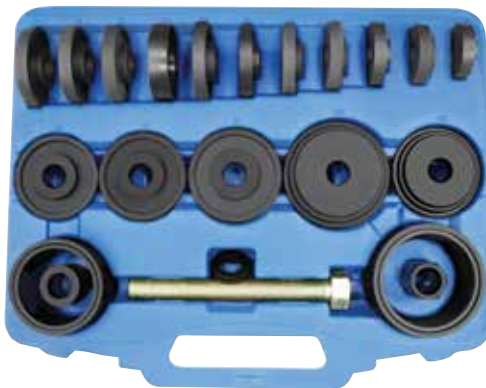
##### Bearing Race and Seal Driver Master Set

- Easier to insert wheel bearing race and seals without damage to race and axle housing
- Set includes nine disc sizes to fit most standard wheel bearings
- Turn discs over to drive seals
- Blow molded case for easy storage and transport

Set includes the following parts:

- |                                            |                     |
|--------------------------------------------|---------------------|
| No. 1 - Size 1.565"                        | No. 2 - Size 1.750" |
| No. 3 - Size 1.965"                        | No. 4 - Size 2.325" |
| No. 5 - Size 2.470"                        | No. 6 - Size 2.555" |
| No. 7 - Size 2.830"                        | No. 8 - Size 2.995" |
| No. 9 - Size 3.180"                        |                     |
| No. 10 - drive handle with flange hex bolt |                     |

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



#### AST78825

##### Master Front Wheel Drive Bearing Adapter Kit

- Includes heavy duty grade 7/8" grade 8 drive bolt for twice the durability of the industry standard
- Replace wheel bearings without the need for alignment after by keeping the strut assembly and steering knuckle in place during service
- Master set for a wide range of applications
- Hardened washers for repeated use and longer life
- Black phosphate coating for a more durable finish

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# AP Astro



#### AST78100

##### Goliath Ball Joint XL C-Frame Press

- Large ball joint press for max clearance and easier use of tall and stacked adapters
- Includes both long and short drive screws to maintain a shorter overall working length when desired
- Features 3X the throat space and includes a notched foot that allows for pressing out ball joints without removal of top mount grease fittings
- Astro's new forged alloy steel
- 9.1" throat, 11.9" length

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#### AST78620

##### Subaru Ball Joint Puller

- For difficult to remove, seized, rusted and/or corroded bolt-in Subaru ball joints
- Designed for easy use with vehicle on jack stands using a deep 24mm socket and impact or hand wrench
- Or use the included 5/8-18 thread adapter with any common slide hammer
- Unique sliding pin non-rotating design removes ball joints in a single pulling motion without spinning the ball joint stud, reducing the chance of ball joint breakage
- For Subaru Baja 2003+, Forester 1998+, Impreza 1993+, Legacy 1990+, Outback 2000+ and more

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## MUELLER KUEPS

German Automotive Tool Innovator



#### MLK432005

##### Twin Cone Bearing Set

- New Principle or the hub assemblies
- Fits nearly all kinds of wheel bearings as well
- Makes it a solid connection, easier to remove when using a slide hammer
- Made in Germany • Universal use

## DRIVE SHAFT & AXLE

### CV Joint & Boot Tools



#### LIS30500

##### CV Boot Clamp Pliers for Earless Type Clamps

- For earless-type clamps
- A sturdy, low-cost tool
- Works on earless-type clamps including those found on GM inboard CV joints
- Skin-packed • Shipping wt. 12 oz.

Constant Velocity (CV) Boot Clamp Pliers for ear less-type clamps found on many front wheel and four wheel drive vehicles.

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#### LIS30800

##### CV Boot Clamp Pliers for Ear Type Clamps

- For all ear-type clamps including GM FWD outboard CV joints
- Designed for use with a torque wrench, as required for stainless steel bands
- Skin-packed. Shipping wt. 15 oz.

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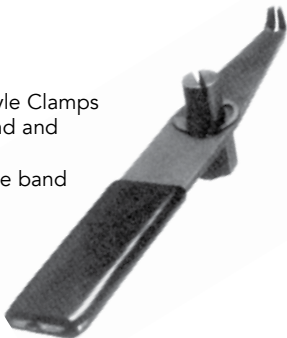


#### LIS30950

##### CV Joint Banding Tool

- For All Band-it and Band-it Jr. Style Clamps
- Use 5/8" socket or wrench to wind and crimp new band on boot
- Tool is easily disengaged from the band after the band is tightened
- Skin-packed. Shipping wt. 5 oz.

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**ASSENMACHER**  
SPECIALTY TOOLS  
ASTTOOL.COM

#### ASSCVB15

##### CV Clamp Crimping Tool

- Used on Crimp Style CV Boots
- For CV boots on all BMW and Toyota models
- Drive the CVB15 with your 3/8" drive ratchet crimp



#### KDT3191

##### CV Joint Boot Clamp Tightening Wrench

- 11.5" in length
- Use wrench to securely fasten band-it style free end clamps, roll band and clips or band-it Jr. style preformed CV boot clamps
- The mandrel tightens the clamp, holding it in place until the ears of the clamp are folded down

This wrench is used to securely fasten band-it style free end clamps, roll band clips or pre-formed CV boot clamp. The tool is used by turning the winding mandrel with a wrench. The mandrel tightens the clamp, holding it in place until the ears of the clamp are folded down.



#### KDT3955

##### CV Boot Clamp Tool

- Allows for proper installation of CV Boot
- Crimps joints with center pushing feature
- Works with hand, 1/2" drive ratchets, or torque wrench
- High leverage design
- Comfort grip

CV Boot Clamp Tool is used for installing and removing CV boot bands without damage to CV Boot.

## DRIVE SHAFT & AXLE

### Slide Hammers & Pullers



#### KT170510 Slide Hammer Pull Kit

- Easily removes flange-type axles, oil seals, bearings and other press fit parts
- Package in blow molded case

Kit includes: 5 lb. slide hammer; 8-function/3-jaw puller; 2-jaw puller; puller hook; rear axle puller; dent puller; and grip wrench adapter

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#### KT170520 10 Way Puller Set

- 5 pound slide hammer puller set with various jaws and attachments allowing for 10-way internal or external jobs
- Jaws can be setup for 2 or 3 way pulling: (3) 2-3/8" pulling jaws, (3) 3-1/4" pulling jaws, (3) 6-1/2" pulling jaws
- Grip wrench adapter threads into slide hammer with 5/8" - 18 thread and threads onto a 7/16" - 14 thread adapter for pulling use
- Rear axle pulling attachment, front hub puller assembly, dent puller and puller hook attachment
- All contents of set come in a convenient plastic, blow-molded carrying/storage case

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#### KT170356 Pilot Bearing Slide Hammer

- Center rod spreads forged steel jaws, pushing them out against the bearing for quick and easy removal of bearings and other parts located in tight spaces
- Spread: 1/2" - 1-1/2"



#### KT170355 Pilot Bearing Puller

- Use to remove fly wheel pilot bearings up to 7-1/2" long in tight spaces where a slide hammer just won't fit
- Versatile tool also works as a bearing and bushing puller for generators and starters
- Spread: 1/2" to 1-1/2" I.D.



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#### AST78410 Adjustable Blind Inner Bearing Slide Hammer Puller

- For bearings and bushings with 0.75 - 2.3" inside diameter or up to 2.0" when pulling from outside diameter
- Jaws remain in a straight extended orientation when adjusted and are made from forged CR-V
- 2.5 lbs Sliding Hammer, 5.9 lbs total weight
- 22.25" length
- Made from forged Chrome-Vanadium



#### TIG10803 Heavy Duty Yoke Puller Kit

- Simplifies and expedites removal of heavy duty yokes on drive shafts, transmissions & rear-end differentials without damage to components
- Works with 1/2" impact wrench
- Services Rockwell, Spicer & Meritor

## DRIVE SHAFT & AXLE

### Slide Hammers & Pullers



Use 21st century air hammer pulling power to get the job done Safe, Fast and efficient instead of a slow, manually powered 19th century slide hammer.



#### LTILT855A Texas Twister

- Converts air hammer into a pneumatic slide hammer
- One hand operation
- Safe controlled part removal without parts and fluids crashing to the floor
- New Puller Connector - 1/2" - 20 to 5/8" and 1/2" - 20 to 3/4" to connect Texas Twister to your 5/8" and 3/4" slide hammer bits and pullers

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#### KDT41700 10 Way Slide Hammer Puller Set

- Kit provides a wide range of puller applications such as flange-type axles, oil seals and other press fit parts
- Jaws can be set up for 2 or 3 jaw internal or external pulling jobs

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#### SGT81100 The Slugger, Heavy Duty Slide Hammer in a Tool Box

- Perfectly designed for the toughest repair applications
- 10 lb. slide weight designed for in-line impact
- Balanced for continued use without fatigue
- Special hand-fit weight for ease of work
- Packed in a handy metal tool box which can be locked
- An assortment of the most widely used Slugger parts packed in a handy metal tool box. Which can be locked for security

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#### SGT81000 The Slugger, Heavy Duty Slide Hammer

- Perfectly designed for the toughest repair applications
- 10 lb. slide weight designed for in-line impact
- Balanced for continued use without fatigue
- Special hand-fit weight for ease of work
- Dual hammer action for reverse or direct reconstruction blows

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



#### SGT80000 Economy Slide Hammer Set

- A basic set for the most popular Slugger hooks supplied in a carton without board or metal box
- Allows the technician to get started with a quality set at a significant savings with the option of adding other parts in the future as desired

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## DRIVE SHAFT & AXLE

### Slide Hammers & Pullers

# OTC



#### OTC6540

##### 8 Piece Rear Axle Bearing Puller Set

- Rear axle bearing puller fits min. bearing tube I.D. of 1" and max axle tube I.D. of 1-7/8"
- Rear axle bearing puller, fits min. bearing tube I.D. of 1-5/16" and max axle tube I.D. of 2-3/8"
- Rear axle bearing puller fits min. tube I.D. of 1-3/8" and max axle tube I.D. of 2-7/8"
- Slide hammer tee bar
- Slide hammer weight: 5 lbs
- Pulling hook
- Rear axle pulling plate
- Bearing cup remover

# OTC



#### OTC7947

##### Eight-Way Slide Hammer Puller Set with Plastic Case

- Puller jaws can be set up for 2/3-way internal or external jobs
- Attachments include a dent puller, internal/external pulling jaws, puller hook attachment, rear axle pulling attachment, and a grip wrench adapter
- Comes neatly packaged in a handy plastic carrying case

Add a variety of puller attachments to a 5 lb. slide hammer puller and you get the capability to pull flange-type rear axles, stubborn oil seals and bearings, and other press-fit parts.



#### OTC7948

##### 10-Way Slide Hammer Puller Set with Plastic Case

- Puller jaws can be set up for 10-way internal or external jobs
- Attachments include a dent puller, internal/external pulling jaws, puller hook attachment, rear axle pulling attachment, and a grip wrench adapter
- Comes neatly packaged in a handy plastic carrying case

Add a variety of puller attachments to a 5 lb. slide hammer puller and you get the capability to pull flange-type rear axles, stubborn oil seals and bearings, and other press-fit parts.



#### OTC4581

##### Stinger Slide Hammer Blind Hole Bearing Puller Set

- For pulling jobs requiring an internal pull, such as pilot bearings
- Set includes four collets which fit a wide range of applications
- Set includes a 2-1/2 lb. slide hammer with T-handle
- Housed in a blow-molded plastic storage case

Includes four collet sizes: 3/8" to 1/2", 9/16" to 11/16", 5/8" to 1", 1" to 1-1/4". When using select the appropriate sized collet by comparing it with the application. Insert the collet, expand it to fit the hole, then attach the slide hammer assembly. It's a great set and is easy to use!

## DRIVE SHAFT & AXLE

### Slide Hammers & Pullers



#### OTC4579

##### Stinger 9 Way Slide Hammer Puller Set

- Internal and External Jaws provide a variety of combinations to pull bearings, gears and seals
- Pulls Flange-type rear axle and most front wheel drive hubs
- Two and three-way cross blocks and cone provide perfect jaw configuration for many jobs

Includes: 2 way cross block, front hub puller, internal 3 jaw puller, external 3 jaw puller, rear axle puller, internal 2 jaw puller, grip wrench adapter, dent puller and puller hook. 5 lb. hammer in polished chrome finish in a blow molded case



vehicle | SPECIALTY



#### OTC1176

##### Reversible Jaw Slide Hammer Puller

- The basic slide hammer unit can be removed and used independently
- This puller with a 2-1/2 lb. hammer, 2-way and 3-way head is 27" in length
- The inside 2-jaw spreads 1-1/4" to 3-1/2" and the outside spreads 1" to 4-1/2"
- The inside 3-jaw spreads 1-1/2" to 4-1/4" and the outside spreads 1-1/2" to 4-1/2"
- Weight 8 lbs.

Here is an extremely versatile puller, which will accomplish many pulling jobs involving gears, bearings, outer races, grease retainers, oil seals, etc. Either two or three puller jaws may be used to handle "inside" pulling jobs such as bearing cups and outer races, as well as regular "outside" pulling jobs. It's a very dependable and versatile tool to have around.

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#### OTC1173

##### Special Slide Hammer Puller

- Ideal for pulling jobs in very close quarters, as in removal of small-bore bushings, bearings, oil seals, etc.
- Internal pulling attachment has a jaw spread of 1/2" to 1-3/8", adjusted by turning the slide hammer handle
- Handle end has a 1/2"-20 thread

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## SUNEX<sup>®</sup> TOOLS



#### SUN3911

##### Slide Hammer Puller Set

- Jaws can be set up for 2 or 3 jaw internal or external pulling

Set includes the following: 5 lb. heavy duty slide hammer, 8 function internal or external 3 jaw puller, Internal or external 2 jaw puller, Puller hook, Rear axle puller, Dent puller, and Special grip wrench adapter.

Jaws can be set up for 2 or 3 jaw internal or external pulling  
Eases removal of flange-type axles, oil seals, bearings and other press fit parts  
Heavy duty steel carrying case  
Puller radius: 1.5mm  
Includes: 5 lb. heavy duty slide hammer  
8 function int. or ext. 3 jaw puller  
Internal or external 2 jaw puller  
Puller hook  
Rear axle puller  
Dent puller  
Special grip wrench adaptor: 1.75mm.

## DRIVE SHAFT & AXLE

### Slide Hammers & Pullers



#### MLK433100 Suspension Master Kit

- Most complete Suspension Kit on the market
- To remove all components of the wheel knuckle
- Includes the Twin Cone Set, large Slide Hammer
- Neon color case



#### MLK433450 Slide Hammer 13lbs

- 13 lbs Slide Hammer "The Beast"
- Can be used with MLK432005
- Longer than anybody else

#### MLK433414 Uni Drive-Shaft Pusher/Hub Puller

- Universal tool for pushing out bonded or corroded drive shafts
- "Vibro Impact" principle
- Suitable for almost all 4- and 5-hole wheels
- Damage to drive shaft thread is prevented
- Impact wrench not included!



#### OTC7792 Slide Hammer Rear Axle Service Puller Set

- The tools you need for flange-type rear axle and bearing removal on most late model passenger cars and light trucks
- The axle bearing pullers, used with the slide hammer, make short work of removing semi-floating rear axle bearings

Consists of: No. 7374 - Rear axle pulling plate with 5 lb. slide hammer. No. 7495A - Rear axle bearing puller. Fits min. bearing tube I.D. of 1" and max. axle tube I.D. of 1-7/8". No. 7496A - Rear axle bearing puller. Fits min. bearing tube I.D. of 15/16" and max. axle tube I.D. of 2-3/8". No. 7497A - Rear axle bearing puller. Fits min. bearing tube I.D. of 1-3/8" and max. axle tube I.D. of 2-7/8". No. 27315 - Puller hook for use with the 5 lb. slide hammer.



#### TIG10102 Heavy Duty U-Joint Puller

- Fits spacer drive lines 1610, 1710, 1760, 1810, 1880, Meritor (Rockwell) 16N, 17N, 18N, 1710, Spicer SPL140, 170, 250, "Lifeseries" (virtually all class 7 and 8 trucks & machinery)
- Eliminates dangerous vice-and-socket or hammering methods
- Reduces the risk of damage to driveshaft, yokes, joints or bearing cups
- Engineered for use with a 1" impact tool



#### MTN9001 Pilot Bearing Puller - 7-1/2"

- Can also be used to pull bearings or bushings from generators or starters
- Includes 1/2" to 1 1/4" ID Capacity jaws
- Strength - helps pull out tough bearings
- Short length - allows reach into tighter areas
- Versatility - works on automobiles, trucks, and tractor



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## DRIVE SHAFT & AXLE

### Slide Hammers & Pullers

# OTC



#### OTC1178

##### Reversible Jaw Slide Hammer Puller Set

- This useful set contains OTC's popular No. 1176 reversible-jaw slide hammer puller, plus an assortment of special jaws and adapters.
- You get all the versatility of the No. 1176, plus attachments for pulling various size pilot bearings, oil seals, bushings, timing gears, harmonic balancers, and other lightly fitted parts!
- Weight: 10 lbs., 3 oz.



#### OTC1170

##### Pilot Bearing Puller with 3/4" Reach

- Built especially for inside pulling jobs, and particularly for removing flywheel pilot bearings on automobiles, trucks and tractors
- Also very practical for pulling motor, generator, and magnet bearings
- Reach: 3/4"; ID spread minimum: 1/2"; maximum: 1-1/2"



#### OTC1156

##### 2-1/2 lb Slide Hammer Puller with Threaded End

- Length: 24"                      • 2 1/2 lb. hammer
- 5/8"-18 threaded end            • Weight: 4 lbs. 12 oz.

This is a basic slide hammer, which may be used with an OTC internal pulling attachment or external-internal threaded adapters. This has a very sleek design, which helps grip and get the pulling job done.

#### OTC7372

##### Rear Axle Puller Plate

- This puller will enable you to remove flange-type rear axles from most late model cars and light trucks
- Works on axles having bolts and studs up to 9/16" diameter



# OTC



#### OTC4534

##### Multipurpose Bearing and Pulley Puller Set

- 2 – Forcing Screws (Live Center): 3/4"-16 x 6-11/16" and 3/4"-16 x 5"
- 2 – Cross-bar Yokes: 3 pin-hole at 3-1/4" to 5-1/2", 2 pin-hole at 2-3/8" to 3-3/8" 2 – Clamp Bolts
- 3 Pairs of Puller Jaws: 1-3/8" Max, 1-5/8" Max, 1-3/4" Max
- 1 Pair of Jaw Pins with Ball Spring
- 3 Pairs of Capped Bolts
- Spread: 3" to 5", Reach: 1" to 2-1/4"
- Housed in a blow-molded plastic storage case

This multipurpose bearing and pulley puller set is for a wide range of pulling jobs, including: bearings, alternators, generators, power steering and crankshaft pulleys, timing gears, and harmonic balancers. This set includes drop-forged components, which can be used in a variety of combinations.



#### OTC4518

##### 5 Ton Bar Style Puller Set

- Our two most popular bearing "splitters" (2" and 3")
- Four sets of hex push-puller legs
- A bar-type puller head with a 9/16" forcing screw
- Weight 10 lbs 8 oz

Separator tools are used with bar puller and legs for a wide variety of pulling jobs. The 5" puller cross-bar with a 6-1/4" forcing screw or each of the bearing separators may also be used separately or in combination with other pullers or tools. All included in a blow-molded plastic storage case which keeps the set contents organized and protected from loss.

## DRIVE SHAFT & AXLE

### Slide Hammers & Pullers



#### OTC1183 Bearing Splitter Combo Set

- This combo pack contains four of OTC's most popular bearing splitters, plus a pulley pulling attachment. A rugged organizer case is included, enabling you to keep the tools together for instant use

Set includes: 1121 - bearing splitter; has 15/16" maximum spread and 1/4" minimum spread; 1122 - bearing splitter; has 2" maximum spread and 1/8" minimum spread; 1123 - bearing splitter; has 4-5/8" maximum spread and 1/2" minimum spread; 1130 - bearing splitter; has 9" maximum spread and 1/2" minimum spread; 679 - pulley pulling attachment with a 5-7/8" maximum and 1-3/4" minimum spread



#### OTC4520 Differential Side Bearing Puller

- Use to remove differential side carrier bearing
- Works on a wide variety of cars and light trucks
- Includes four step plate adapters to fit carrier bearings

Set of four step plate adapters includes sizes: 15/16" - 1-11/32" diameter, 1-1/8" - 1-1/2" diameter, 1-1/4" - 1-5/8" and 1-1/8" - 1-3/4" diameter. Reach: 1-5/8"; spread: 2-5/8" to 3-3/8".



#### OTC6602 Differential Bearing Preload Wrench

- Similar to Miller C-4164
- Tool fits inside axle tube to access the threaded adjusters
- Use to adjust differential bearing free play on Chrysler/Dodge vehicles with 7-1/4", 8-1/4", 8-3/4", and 9-1/4" rear axles



#### OTC205378 Single Lead Grip Wrench Adapter

- For grip wrenches using single-lead thread adjusting screw
- Adapter threads onto a slide hammer with a 5/8"-18 thread
- Grip wrench threads onto 7/16"-14 end of adapter for pulling use

#### OTC7318 Pilot Bearing Puller 1/2" to 1-1/2"

- Operates on many models with engine in chassis
- Designed to pull flywheel pilot bearings in close quarters where a slide hammer cannot be used



#### OTC7319 Pilot Bearing Puller 7/8" to 2"

- Capacity: 7/8" to 2". I. D. reach: 1".
- Weight: 3 lb., 8 oz.



#### OTC464 2 Ton GripLock 2 or 3 Jaw Puller

- Configuration conversions take just seconds; no wrenches required
- 2 or 3 Jaw application, with a 4" maximum reach, 3" to 4" spread
- Both external and internal pulling action
- "Live center" action forcing screw
- Professional finish for long lasting durability

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#### OTC465 5 Ton GripLock 2 or 3 Jaw Puller

- Configuration conversions take just seconds; no wrenches required
- 2 or 3 Jaw application, with a 7" maximum reach, 3" to 7" spread
- Both external and internal pulling action
- "Live center" action forcing screw
- Professional finish for long lasting durability



#### OTC1028 Differential Bearing Puller with 1-1/4" to 4-1/2" Spread

- This puller is used for removing differential side carrier bearings on a wide variety of passenger cars and light trucks
- Puller with 3-1/2" maximum reach, 1-1/4" to 4-1/2" spread
- This is primarily used for servicing Ford products



## ENGINE MECHANICAL

### Transmission



#### ASSATFEURO8 European Drive Line Filler Set

- 8 qt. capacity
- Hand pump dispenses efficiently
- On/off ball valve and hose length of 4' 10"
- Quick attachment adapters



Used for filling fluids in transmissions, differentials and transfer cases -- not suitable for use with fuels or solvents. Individual manufacturer sets are available, along with the individual adapters. Container made of UHDP (ultra high density polyethylene). Newly designed drum features a second port for filling or dumping fluids without having to remove the pump.

#### ASSATFMB Mercedes 722.9 Transmission Filling Set

- 8 quart capacity
- Hand pump dispenses efficiently
- On/Off ball valve with a hose length of 4 ft. 10 in.
- Quick attachment adapter



Used for filling ATF Fluid in the Mercedes 722.9 Automatic Transmission using the included 12mm x 1.5 threaded adapter. (Not suitable for uses with fuels or solvents)

#### ASSATFSET9 9 Piece Drive Line Filler Set

- 8 quart capacity
- Hand pump dispenses efficiently
- On/off ball valve and hose length of 4' 10"
- Quick attachment adapters



Used for filling fluids in transmissions, differentials and transfer cases -- not suitable for use with fuels or solvents. Individual manufacturer sets are available, along with the individual adapters. Container made of UHDP (ultra high density polyethylene). Newly designed drum features a second port for filling or dumping fluids without having to remove the pump.



#### ASSATFVW5 VW/Audi/Porsche Drive Line Filler Set

- 8 liter capacity
- Pump dispenses efficiently
- On/off ball valve
- Hose length 4' 10"

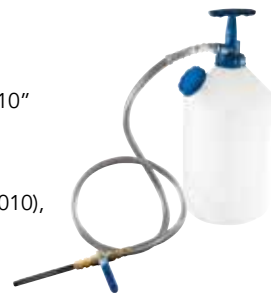


Used for filling fluids in VW/Audi/Porsche transmissions, differentials and transfer cases (not suitable for use with fuels or solvents). Container made of UHDP (ultra high density polyethylene). Newly designed drum features a second port for filling or dumping fluids without having to remove the pump.

#### ASSATFFORD Ford Transmission Filler Set

- 8 liter capacity
- Hose length: 4' 10"
- Quick attachment adapter
- Pump dispenses efficiently
- Made of UHDP

Applicable to Ford Explorer (2004-2010), Mustang (2005-2010) and Thunderbird (2002-2005).



## GW GEARWRENCH



#### KDT2420 Clutch Aligning Tool Set

- Aligns single disc clutches on American and imported cars, light trucks, and tractors
- Plate aligning cone has 1-1/8" maximum diameter taper
- Includes Zinc adapters for Import: 0.472" and 0.500"; 0.622" and 0.641"; 0.688" and 0.710"; 0.826" and 0.875"
- Black adapters for domestic: 0.561" and 0.590"; 0.749" and 0.787"; 0.812" and 0.874"; 0.984 and 1.181"
- Pilot bushing cone taper size: 0.734" to 1.17"

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



#### KDT2398 Automatic Transmission Clutch-Spring Compressor

- Permits easy removal and installation of snap rings
- Tool compresses automatic-transmission clutch springs on some GM, Ford, Toyota and other transmissions

## ENGINE MECHANICAL

### Automatic Transmission



#### LIS23400 5 Piece Transmission / Transaxle Plugs

- Transmission/Transaxle Plugs
- Stops loss of transmission fluid.



Five stepped plugs fit both transmissions and transaxles on most import and domestic cars and pickups. Stepped design prevents slipping out. Adapter 23450 includes side gear centering for Ford Transaxles. Plugs cover a range of 1" - 2.180" (25.4mm - 55.37mm). Plugs may be purchased individually.

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

#### LIS11750 Clutch Hydraulic Coupling Remover For Ford

- Easily disengages the hydraulic clutch line from the clutch slave cylinder on some Ford manual transmissions
- Tool prongs fit around clutch line above nylon sleeve
- For 1989 and newer Mercury Cougars and Thunderbirds; 1988 and newer small trucks including Explorer, Ranger and Bronco II



**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



#### LIS39660 Trans Oil Cooler Scissors 3/8" x 1/2"

- A stronger, metal version of the popular 39960 set
- Used to release transmission oil cooler (TOC) lines on Ford and Cadillac vehicles
- Stepped design is built to work on these special lines
- Two sizes 3/8" and 1/2" in one scissor
- Similar in function to the 39960 but made from metal and in a scissor design

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

#### LIS55500 Clutch Alignment Tool

- The tapered cone handles the rest
- Faster, easier replacement of clutches

Worried about replacing and aligning your clutch? You will have no worries when using this tool. It aligns the clutch plates and pilot bearings accurately. Also the shaft and bushings provide an accurate fit for eight pilot bearing sizes. This is a great set to have, saves time and makes the job easier.



Professional Tools For 4 Generations



#### STATU16PB Quick Change Automatic Transmission to Engine Oil Pressure Tester

- Two gauges included: 2-1/2" gauge has 0-100 PSI/0-7 bar dial, 3-1/2" gauge has 0-400 PSI/0-28 kg/cm<sup>2</sup> dial
- Quick coupler connections for easy and fast change of gauges
- With 6' of Nitrile (oil proof) hose to make testing easier, plus U.S. and metric fittings

#### STATU4APB Automatic Transmission and Engine Oil Pressure Tester

- Checks oil pressure in automatic transmissions and gasoline engines
- 6' of Nitrile (oil proof) hose to make testing easier, plus standard and metric fittings
- The 2-1/2" gauge has a dual scale dial with ranges 0-300 PSI and 0-21 bar



#### OTC6716 Shift Rail Seal Installer

- Installs the shift seal on the Tremec TR 3160 manual transmission to the proper depth to ensure optimal seal life
- Includes a removable pilot to allow for use both on-vehicle and during unit repair, with the shift shaft in place or removed
- Applications: 2013 and later Cadillac ATS manual transmission, 2016 and later Chevrolet Camaro, 2016 and later Ford Mustang Shelby GT350



#### LIS39960 Transmission Oil Cooler Line Disconnect for Ford

- Two sizes - special tips for easy fit
- Use 3/8" size for 2003 and later Ford V8 Explorer, 2004 and later Ford F150 and Cadillac CS
- Use 1/2" size for Ford Super Duty Trucks, F250, F350 and F450

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



## ENGINE MECHANICAL

### Automatic Transmission



#### OTC6611

##### Transmission Line Disconnects

- Transmission Line Disconnect set (6 per pack) for GM applications
- Over 400,000 vehicles on the road today need this disconnect tool

Transmission Line Disconnect set for Cadillac CTS/Chevrolet Corvette Disconnects. Applications include: 2001 to current Chevrolet Corvettes with the 4L60E transmission, 2003 to current Cadillac CTS with the 5L40E transmission, 2004 to current Cadillac STS with the 5L40E transmission, 2005 to current Pontiac Solstice with the 5L40E transmission, 2006 to current Saturn Sky with the 5L40E transmission.



#### OTC6593

##### 2 Piece Ford Transmission Cooler Line Disconnect Set

- Snap around cooler line, push into the fitting, fitting releases, the cooler line can then be removed
- 3/8" disconnect is used on 2003-newer Ford Explorers with 5R55W transmission
- 1/2" disconnect is used on 2003 - newer Ford Super Duty trucks with the 4R100 transmission



#### OTC6604

##### Transmission Fluid Fill Adapter

- Same as Ford No. 307-437



This is a required tool to fill or add fluid to the 5R55W automatic transmission used on 2003 - newer Ford Explorers. Operating instructions: remove fill plug from transmission: install No.OTC6604: fill transmission to correct fluid level: remove No. OTC6604: and reinstall fill plug in transmission.



#### OTC7024

##### Automatic Transmission Clutch Spring Compressor

- This is a handy, adjustable tool for removing or installing the snap ring on a transmission rear clutch piston
- It applies pressure to the clutch drum's retaining washer to compress piston return springs
- For use on most American cars and light trucks



#### OTC7073A

##### Truck Clutch Alignment Shaft 1-3/4" O.D., 1-1/4" Pilot

- Designed for use on heavy duty single, two-plate, push/pull, manual, and self-adjust clutches
- Shaft is constructed of lightweight fiberglass-reinforced nylon that won't hang up in clutch disc splines
- Rugged and will easily support the weight of heavy pressure plates



#### OTC5035

##### Truck Clutch Adjustment Set

- The gauges in this set enable you to check the adjustment of pull-type, heavy duty clutches, ensuring their correct operation
- One gauge checks the amount of free play between the yoke and the bearing's wear pad
- The other gauge lets you determine the amount of travel between the release bearing and transmission bearing cap



#### OTC7075

##### Transmission Output Shaft End Yoke Remover

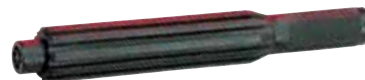
- Puller supplies you with 10 tons of mechanical power
- An absolute must for working on big transmissions



#### OTC5044

##### Self-Adjusting Clutch Rotating Tool

- This handy tool replaces the self-adjuster mechanism on Spicer self-adjusting clutches, allowing you to manually adjust them with a wrench or socket
- 3/4" hex drive



#### OTC7072A

##### Clutch Aligning Tool 1-1/2" OD 1" Pilot

- Size: 1 1/2" O.D., 1 pilot, 10-splines, 3.25" long
- Constructed of a lightweight fiberglass-reinforced nylon body
- Easily supports heavy pressure plates
- Similar to Ford 308-D001

#### OTC8070

##### Puller Step Plate Adapter

- 2-7/8 and 2-3/8" diameter

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#### OTC7028

##### Clutch Adjusting Wrench for Spicer Clutches

- For internal adjustment of multiple lever and angle-spring clutches

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#### OTC7480

##### Truck Clutch Alignment Shaft

- 1-3/4" O.D., 1" Pilot
- Constructed of a lightweight fiberglass-reinforced nylon body that won't hang up in the clutch disc splines
- Designed for perfect fit to the spline of the clutch disc-easily supports heavy pressure plates



## ENGINE MECHANICAL

### Automatic Transmission

**S.U.R.&R**



**SRRTR555**

#### Transmission Line Repair Kit

- Easily Replace/Repair both 5/16 & 3/8 lines on the car
- High Temperature/Triple walled rubber hose safe and durable
- Pressure rated up to 250 PSI. Temperatures up to 350 degrees
- Perfect for damaged lines including rust, cracks, pinholes

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**TOOL AID**  
TOOLS FOR THE PROFESSIONAL



**SGT34550**

#### Automatic Transmission and Engine Oil Pressure Tester with Two Gauges

- Check oil pressure in automatic transmissions and engines
- Adapters provide coverage of most domestic and imported cars and light trucks including late models
- Supplied with two gauges calibrated as follows:
  - Large Gauge: 0-600 PSI
  - Small Gauge: 0-50 PSI

Large gauge can be used for all applications and has a hang-up hook. Use small gauge for more accurate reading of engine oil pressure where maximum oil pressure does not exceed 50 PS.I. (3.5 BAR). Includes 6' of oil proof hose and 10 assorted fittings. Supplied in durable vinyl pouch for store display and tool box storage. Now includes an adapter with two grooves for use on most Asian and some American and European vehicles. Thread size is 8MM-1.00 Male x 1/8" NPT Female.

**TOOL AID**  
TOOLS FOR THE PROFESSIONAL



**SGT34580**

#### Automatic Transmission and Engine Oil Pressure Tester with Two Gauges in Molded Plastic Storage Case

- Same product as SGT 34550 but supplied in a durable plastic molded case
- Supplied with two gauges calibrated as follows:
  - Large Gauge: 0-600 PSI
  - Small Gauge: 0-50 PSI

Large gauge can be used for all applications and has a hang-up hook. Use small gauge for more accurate reading of engine oil pressure where maximum oil pressure does not exceed 50 PS.I. (3.5 BAR). Includes 6' of oil proof hose and 10 assorted fittings. Case measures 11-1/4" x 7-1/2" x 3" and has ample space for additional adapters and parts. Now includes an adapter with two grooves for use on most Asian and some American and European vehicles. Thread size is 8MM-1.00 Male x 1/8" NPT Female.

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**THEXTON**

**THX319**

#### Transmission Cooler Line Plugs

- Eliminates loss of transmission fluid and messy, slippery floors
- Fit 1/4", 5/16", and 3/8" tubes, transmission cooler line plugs seal male or female fittings
- 16" chain keeps plugs together and serves as a tube support
- Allows vehicle to be driven from service bay with radiator off



**THX312**

#### Plug-All® Vacuum and Fuel Line Stoppers

- Plugs fit 1/8", 3/16", 1/4", 5/16", 3/8" and 1/2" hoses
- Tapered caps close tubes from 1/8" to 1/2"



## ENGINE MECHANICAL

### Transmission



#### LIS61750

##### Metric Clutch Alignment Tool

- A tapered cone to fit all others is provided
- Clam shell package
- Built durable, made to last



For faster, easier replacement or repair of metric clutches, this is the answer. This tool consists of the shaft, ten pilot bushings and two plate alignment cones with graduated turned diameters for "automatic" fit of most metric clutch plates. It's simple to use and easy to store.



#### OTC7646A

##### Ford Clutch Coupling Tool

- Disconnects the hydraulic clutch line from the clutch slave cylinder on the following vehicles with manual transmissions and hydraulic clutches: 1988-newer F-series trucks, Bronco II, Ranger, Explorer, and 1989-1997 Ford Thunderbird and Mercury Cougar
- Wedge shaped design allows easy removal of clutch line without damaging the clutch line, coupling, or slave cylinder; no need to pry the coupler apart



#### OTC7073A

##### Truck Clutch Alignment Shaft 1-3/4" O.D., 1-1/4" Pilot

- Designed for use on heavy duty single, two-plate, push/pull, manual, and self-adjust clutches
- Shaft is constructed of lightweight fiberglass-reinforced nylon that won't hang up in clutch disc splines
- Rugged and will easily support the weight of heavy pressure plates

1-3/4" O.D.; 1-1/4" pilot, spline 3.75" long.



#### OTC7074A

##### Truck Clutch Alignment Shaft 2" O.D.; 1-1/4" Pilot

- Designed for use on heavy duty single, two-plate, push/pull, manual, and self-adjust clutches
- Shaft is constructed of lightweight fiberglass-reinforced nylon that won't hang up in clutch disc splines
- Rugged and will easily support the weight of heavy pressure plates

2" O.D.; 1-1/4" pilot, 10 splines 3.75" long.



#### OTC7480

##### Truck Clutch Alignment Shaft

- 1-3/4" O.D., 1" Pilot
- Constructed of a lightweight fiberglass-reinforced nylon body that won't hang up in the clutch disc splines
- Designed for perfect fit to the spline of the clutch disc-easily supports heavy pressure plates

## ENGINE MECHANICAL

### Universal Service



**ASSENMACHER  
SPECIALTY TOOLS®**  
ASTTOOL.COM



#### ASSBMW5346

##### BMW Transmission Cooler Line and Power Steering Line Disconnect Tool

- Made of red-anodized aluminum
- The new design of the BMW 5346 also covers the transmission cooler line

Applicable to 1999-2005 BMW 3-Series and X5. (The new design of the BMW 5346 also covers the transmission cooler line)



#### CTA8960

##### 5 Piece E Torx Flex Driver Set

- Flex shaft for access in tight spaces
- No slip grip handle
- Great for Euro applications, and much more!
- Includes sizes E4, E5, E6, E7 & E8



#### CTA1100

##### 2 Piece Hose Clamp Tool Set With Flip Sockets

- Flex shaft with flip socket heads to service hose clamps, body panels, trim panels, etc. in hard-to-reach areas
- Sizes: 1/4" X 5/16" (8mm) & 6mm X 7mm
- OAL: 10-3/4" / 27.5cm



#### OLD7019

##### L-Type Seal Puller

- Remove the most stubborn seals from transmissions, axles and those seals that are difficult to reach, with this heavy duty seal puller
- Black oxide finish • Length is 12-1/2"
- Weight: 1.2 lbs.

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



#### OTC5610

##### Transmission/Engine Oil Pressure Kit

- Large 3-1/2" gauges feature a chrome bezel and rugged protective outer boot
- High pressure gauge reads 0-400 psi and 0-2800 kPa
- Low pressure gauge reads 0-100 psi and 0-700 kPa
- Both gauges include rear hook to allow gauge to be hung conveniently out of the way
- Gauges and hose assembly incorporate quick couplers for easy disconnect

Can be used for domestic and import applications. High and low pressure gauges make this kit useful for both transmission and engine work. Kit comes complete with adapter for most applications. Can be used for both static and on road testing.



Professional Tools For 4 Generations



#### STATU16A

##### Transmission and Engine Oil Pressure Tester

- Checks engine oil and auto transmission pressure
- Works on cars, trucks, motorcycles
- Includes 21 color coded SAE and metric fittings
- 2-1/2" gauge for readings from 0-100 psi 0-28 bar
- 3-1/2" gauge for readings from 0-400 psi 0-28 bar

## ENGINE MECHANICAL

### Oil Filter Wrenches



#### Swivel Handle Oil Filter Wrenches

- Wrench is made of high-quality steel with a zinc - plated yoke and a blackened band for resistance to rust and corrosion
- The plastisol-dipped handle will not slide off during use
- The unique yoke and link assembly allows a good grip, but will not crush the filter
- Wrenches' swivel tension is adjusted easily by using the nut and bolt on the handle
- Caution - wear eye protection

- KDT3082** - 3-1/2 to 3-7/8"
- KDT3083** - 2-7/8 to 3-1/4"
- KDT3324** - 2-1/2 to 3"

#### Pro Swivoil Filter Wrenches

- 180° swivel action
- Cushion grip dual material handle
- Stainless and plated steel material band - lifetime corrosion resistance
- Dimpled bands - extra gripping power
- Specially designed for today's oil filters

- KDT3941** - Small (64-76mm)
- KDT3942** - Medium (73mm-83mm)
- KDT3943** - Large (89mm-99mm)
- KDT3944** - Extra Large (96-111mm)



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#### CTA4325 4 Piece Oil Filter Wrench Set with Stand

- Includes one each: #2538 - Heavy Duty Swivel Type Oil Filter Wrench - 57-73mm
- #2540 - Heavy Duty Swivel Type Oil Filter Wrench - 65-83mm
- #2545 - Heavy Duty Swivel Type Oil Filter Wrench - 75-95mm
- #2548 - Heavy Duty Swivel Type Oil Filter Wrench - 92-111mm
- #4325X50 - Stand



#### Heavy Duty Adjustable Oil Filter Wrenches

- Swivel heat treated handle for easy access
- Designed to remove oil filters in hard to reach areas
- Features a unique yolk and link assembly for positive grip on oil filter

- KT173601** - 2-7/8" to 3-1/4"
- KT173602** - 3-7/16" to 3-3/4"
- KT173603** - 4" to 4-3/8"
- KT173605** - 4-5/16" - 4-3/4"
- KT173606** - 5-1/4" - 5-3/4"

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#### KT173600 4 Piece Interchangeable Oil Filter Wrench Set

- Vinyl handle provides better grip and strength
- Bands made of stainless steel and plated for additional corrosion requirements
- Bands easily interchanged by removing and installing two detent pins
- Wide studded band prevents crushed filters
- Swivel handle to clear obstructions

Includes bands sized from 2-3/8" to 4-3/8" (61mm-111mm).

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#### MTN8504 4-in-1 Swivel Oil Filter Wrench

- User capability to handle filters from 2-3/8" to 4-3/8" with one kit
- Easily interchangeable by removing and installing detente pins
- Buyers obtains four filter wrenches for the price of two

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## ENGINE MECHANICAL

### Oil Filter Wrenches



#### LIS61140

##### Diesel Filter Wrench for Ford Transit

- Wrench Is Used to Remove and Install Fuel Filter Elements on 3.2L Diesel Ford Transit Engines
- Works on 2015 to current 150, 250, and 350 models
- The tool is notched to match the canister design to help eliminate slipping and damage to the canister



##### Swivel Oil Filter Wrenches

- Heavy-duty "Swivel Grip" handle makes it easy to turn in tight spots
- Tough, stainless steel band with special "teeth" for extra gripping power won't slip
- Handle is made of tubular steel for added strength

**LIS53200** - 4-3/4" to 5-3/16"

**LIS53250** - 4-1/8" to 4-1/2"

**LIS53500** - 3-1/2" to 3-7/8"

**LIS53700** - 2-7/8" to 3-1/4"

**LIS54400** - 2-3/8" to 2-5/8"

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#### LIS53400

##### Universal 3" Oil Filter Wrench

- Remove and install all 3" filters
- Works in the tightest spots
- Stainless steel band, gripper teeth ... won't slip
- 3/8" square drive

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



#### LIS53900

##### Straight Oil Filter Wrench

3-1/2" to 3-7/8"

- Straight handle filter wrench
- 1" stainless steel band with special "teeth" grips tightly
- Vinyl-covered handle provides firm, comfortable grip

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



##### Swivel Truck Oil Filter Wrenches

- "Swivel Grip" handle makes it easy to turn in tight spots!
- Tough, stainless steel bands with special "teeth" for extra gripping power ... won't slip
- Handles made of tubular steel for increased strength
- Works on Cummins and Detroit Diesel engines

**LIS54200** - 4-5/16" to 4-3/4"

**LIS54300** - 5-1/4" to 5-3/4"

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### Oil Filter Strap Wrenches



#### KT173730

##### 1/2" Square Drive Nylon Strap Filter Wrench

- Fits all oil, air and fuel spin-on filters up to 6" diameter
- Tool can be turned by a 1/2" square drive ratchet or a 3/4" open end wrench

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#### KT173731

##### Heavy Duty Strap Oil Filter Wrench

- Designed for high torque requirements of truck filters, KT1's heavy duty strap oil filter has a forged steel handle, and extra length, sturdy strapping
- A no-strip strap grips filters tightly
- Wrench adapts to spin filters up to 9"

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#### KDT3149

##### Nylon Strap Oil Filter Wrench 0 to 6"

- Use wrench on oil filters up to a 6" (152mm) capacity
- Strong nylon belt will not slip
- Use with 1/2" square drive tools

## ENGINE MECHANICAL

### Oil Filter Strap Wrenches



**LIS63500**

**"Big Range" Strap Type Oil Filter Wrench**

- Adjusts quickly to fit any spin-on oil filter up to 6" diameter
- Use with 1/2" drive or 3/4" wrench
- Strong nylon belt



**LIS60200**

**Heavy Duty Strap Filter Wrench**

- A heavy-duty heat treated alloy steel yoke
- A super strong web strap
- Used to remove or install filters and other objects up to 6-1/2" in diameter
- Use with 1/2" square drive
- 3-5/8" long yoke fits into tight areas



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**OTC7062A**

**3/8" Drive Strap Type Oil Filter Wrench up to 6"**

- Universal design permits use on most vehicles
- Tough 2" wide nylon strap holds firmly
- The more leverage applied, the tighter it grips



**OTC7206**

**Multi-Purpose Strap Wrench**

- The 53" long nylon strap won't mar precision surfaces
- Special head design self-tightens the strap as force is applied
- Lightweight, with 12" long handle



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### Diesel Oil Filter Wrenches



**OTC6914**

**Davco Diesel Filter Wrench**

- Fits Davco Diesel filter models, 232-233-234
- Durable, stainless steel construction
- Precise, laser-cut angles
- Opens vent cap also • Soft, ergonomic handle



Filters found on Caterpillar, Cummins, Detroit Diesel, International, Mack, Mercedes-Benz, Volvo and other engines.

### Diesel Oil Filter Wrenches



**OTC6915**

**Davco Diesel Filter Wrench**

- Fits Davco Fuel filters 382 and 384



**LIS61060**

**Diesel Filter Wrench for Paccar**

- All metal wrench to remove and install bowls on newer Paccar Chassis Mounted Fuel Filter Assemblies
- Half-moon design allows easier access to the fuel filter found on Kenworth, Peterbilt, and Cummins diesels
- Laser-cut steel provides strength to loosen even the toughest bowls
- Thick padded grip for comfort



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**Diesel Filter Wrenches**

- Specially designed wrenches for removing and replacing the main filter collar as well as the vent cap on aftermarket diesel fuel filter systems
- Unique half-moon design provide easier access to the fuel filter
- High strength steel prevents the wrench from flexing while loosening stubborn filter collars
- Four teeth grab the vent cap securely to prevent damage

**LIS61090** - for 5" Davco

- 5" wrench works on any diesel engine with fuel flow rates up to 60 gph, Class 4, 5, & 6 trucks, pickup trucks, refrigeration units and some Biodiesel applications

**LIS61110** - for 6" Davco

- 6" wrench works on any diesel engines found in Caterpillar CT660, Ct11, CT13, CT15, Cummins, Detroit Diesel, International, Mercedes Bens, Paccar, Daimler Trucks North America, Kenworth, Mac, Navistar, Peterbilt, Thomas built Buses, Volvo

**LIS61130** - for 8" Davco

- 8" wrench works Detroit Diesel DD13, DD15 and DD16 engines found in Paccar, Daimler Trucks North America, and Volvo

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## ENGINE MECHANICAL

### Oil Filter Pliers



**LIS50720**

**Mega Gripper Filter Pliers 3" to 5-1/2"**

- Pliers give you tremendous gripping force with 32 biting teeth that grab onto the filter
- Two-position, slip-joint handle adjusts to fit different size filters
- Dual durometer non-slip grip
- 11" / 14" overall length. The jaws open from 3" to 5.5" wide
- The unique angle of these pliers allow you to reach around hot exhaust manifolds without burning your arms

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**LIS50550**

**Mega Gripper Filter Pliers 2" to 4-1/2"**

- Tremendous gripping force with 32 biting teeth
- Two-position, slip-joint handle adjusts to fit different size filters
- Dual durometer non-slip grip
- 11" / 14" overall length. The jaws open from 2" to 4.5" wide
- The unique angle of these pliers allow you to reach around hot exhaust manifolds without burning your arms

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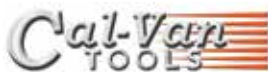


**AST78515**

**Oil Filter Pliers Adjustable Angle**

- Slip-joint handle offers a wide size range for use on 2-1/4" to 4-3/4" oil and fuel filters
- Precision cut teeth in a tried-and-true design for biting into metal filter housings

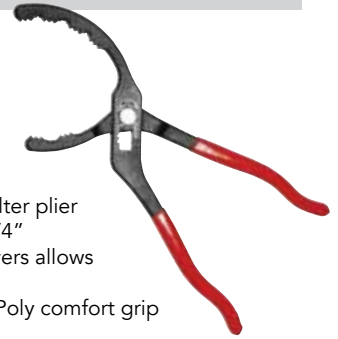
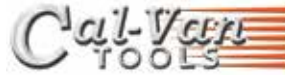
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**CAL291**

**Truck and Tractor Filter Pliers**

- Spring loaded adjustable pliers, easily adjusts to fit many sizes of filters
- Works on filters from 3-3/4" up to 7" • Poly grip
- Heavy duty forged levers • Made for heavy duty applications



**CAL302**

**Adjustable Oil Filter Pliers**

- Self adjusting spring action oil filter plier
- Huge range, from 2-1/4" to 5-3/4"
- Large number of teeth in the levers allows for user to securely grasp filters
- Forged handles for strength • Poly comfort grip



**CHAOF1**

**2 Piece Oil Filter Plier Set**

- CHA212 - Oil Filter Pliers: Capacity 2-1/2" - 3-3/4"
- CHA215 - Oil Filter Pliers: Capacity 2-1/2" - 4-1/2"
- Channellock Blue® comfort grips

Channellock® uses high carbon C1080 steel for superior performance on the job, and an electronic coating for ultimate rust prevention.

**CHAOF-2**

**2 Piece Automotive Oil Filter Set**

- Channellock Blue® grips for comfort
- PermaLock® fastener eliminates nut and bolt failure
- Accommodates most common size car and small engine filters
- Made from high carbon drop-forged steel for durability
- Set Includes: 9" & 12" Oil Filter Plier



**Oil Filter Pliers**

- Right angle teeth grip in all directions
- High carbon drop-forged steel
- Patented PermaLock® fastener eliminates nut and bolt failures
- Channellock Blue® comfort grips



**CHA209 - 9"**

- Capacity: 3"

**CHA212 - 12"**

- Capacity: 4.25"



**CHA215 - 15"**

- Capacity: 5.5"



**CHA2012**

**12" Oil Filter/PVC Plier, Angled Head**

- 30° angled head • Capacity: 3-3/4"



## ENGINE MECHANICAL

### Oil Filter Pliers

**GW GEARWRENCH**



**Oil Filter Pliers**

- Dual-handle styling allows for a better leverage to bear down harder
- Handles are coated for a comfortable and a sure grip
- Forged for superior strength and plastisol coated handles provide a firm grip

**KDT3368** - 2-15/16" to 3-5/8"    **KDT3369** - 2-3/4" to 3-1/8"

**K TOOL INTERNATIONAL**



**KT173620**

**2-1/4" - 6" Adjustable Oil Filter Pliers**

- Self adjusting spring action allows for a full range of filter applications
- Heavy duty forged handles with textured grip for strength and leverage
- Use with 2" - 5" filters



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**KT173621**

**Spring Loaded Truck/Tractor Filter Plier**

- Spring-loaded truck and tractor filter pliers work on auto filters as well as Cummins diesel filters
- Cushioned, ergonomic handle grips to reduce user fatigue
- Forged jaws and extra teeth ensure a strong, sure grip - range 4" to 7"
- 17" extended-reach handles allow users to access the toughest areas

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**IPA7899**

**Gator Jaws® Oil, Fuel and Hydraulic Filter Remover Pliers**

- Removes over-tightened filters
- Works on oil, fuel, and hydraulic filters, fuel sending units and more
- Snakes around hot exhaust manifolds
- 23" long with tremendous holding power
- 2 different settings for optimum grip



The Gator Jaws® with powerful grip and 32 teeth grabs hold of a filter and loosens it from a variety of angles without slipping. Opening size: 1.5" - 12"

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**Lisle**



**LIS50750**

**2-1/4" to 4" 20° Angle Oil Filter Pliers**

- Slip joint handle for greater range
- Two-position, slip-joint handle produces the range of three separate conventional filter wrenches
- Sure grip teeth prevent slipping
- Cushioned handles provide comfort

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**LIS50950**

**3-5/8" to 6" Truck and Tractor Oil Filter Pliers**

- Two-position, slip-joint handle produces a big range
- Overall range 3-5/8" to 6"
- Sure grip teeth prevent slipping
- Cushioned handles add comfort

Large pliers fit most truck and tractor oil filters including: Case, Caterpillar, Cummins, Detroit Diesel, John Deere, Mack and other applications.

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**VIMF TOOLS**



**Oil Filter Pliers**

- Specially designed for removal of screw-on oil filters
- The pliers allow easy access to filters and provide a secure grip with powerful leverage to break loose the most stubborn filters

**VIMV240** - 3" to 4-5/8"

**VIMV241** - 2.75" to 3.1"

**VIMV243** - 2" to 4.2"

**VIMV244** - 2" to 5"

## ENGINE MECHANICAL

### Finger Type Oil Filter Wrench



#### KDT3288

#### 3 Jaw Universal Oil Filter Wrench

- Remove all passenger car and light-duty truck spin-on-type filters with this wrench
- Sizes range from 2-1/2 to 3-3/4" (63.5 to 95mm)
- Use with a 3/8" square drive tool
- Caution - wear eye protection



#### LIS63250

#### 3/8" Drive Oil Filter Wrench 3-1/8" to 3-7/8"

- The large range enables this wrench to fit most standard size filters
- Steel jaws grip filter without slipping
- Works great in tight spots



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#### LIS63600

#### Import Car Oil Filter Wrench

- Fits filters from 2-1/2" to 3-1/8"
- Removes all oil filters from 2 1/2" to 3 1/8" in diameter
- This extra large range enables the 63600 wrench to fit most all import car filters plus the common 3" domestic car filters
- Steel jaws grip filter without slipping
- Works in tight spots from the front of the filter using 3/8" drive



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SPECIALTY TOOLS**  
ASTool.com



#### ANRTOY288

#### Toyota Front Hub Nut Socket

- Comparable to Toyota factory tool # 09318-12010-8Pin
- Comparable to Toyota factory tool # 09602-60010
- R & R of the front hub lock nut on Toyota Trucks (2WD) 2007-newer
- Applicable to Toyota



Applications included: 2007 - 2014 Toyota - 4Runner, 2WD, 2008 - 2014 Toyota - Sequoia, and 2007 - 2014 Toyota - Tundra

### Cup Type Oil Filter Wrenches



#### KTI73635

#### 17 Piece Master Oil Filter Wrench Set

- 3/8" drive cap oil filter wrenches
- Fits 95% of domestic and import automotive applications
- Complete set comes in a handy 10" x 13" plastic case
- Kit includes: 80mm 15 flutes, 82mm 15 flutes, 86mm 14 flutes, 65/67mm 14 flutes, 68mm 14 flutes, 73/74mm 14 flutes, 64/65mm 14 flutes, 74/76mm 15 flutes, 76mm 14 flutes, 93mm 15 flutes, 76mm 30 flutes, 86mm 16 flutes, 88.4mm 15 flutes, 93mm 36 flutes, 93mm 45 flutes, 96 mm 18 flutes, 100mm 15 flutes

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#### KDT3865

#### 5 Piece Filter Cup Wrench Set in Case

- Provides high torque capacity
- Handles 140 ft/lbs of torque to remove even the most stubborn filters
- Metal 3/8" drive insert will not deform or break even after years of service
- 65/67mm, 74/76mm, 76mm, 93mm, 76/80/93mm
- Durable heat resistant caps do not bend or loose shape

Provides high torque capacity. Handles 140 ft/lbs of torque to remove even the most stubborn filters. Metal 3/8" drive insert will not deform or break even after years of service. Durable heat resistant caps do not bend or loose shape. Made of durable nylon material - will not loose size tolerance even if dropped.

## ENGINE MECHANICAL

### Cup Type Oil Filter Wrenches



#### CTA026400 10 Piece OEM Oil and Fuel Service Kit

- For removal of oil and fuel housings and spin-on filters
- 6 cap wrenches • 4 cap sockets



Includes six Cap Wrenches: A251, A258, A261, A266, A267, 2485 and four Cap Sockets: 2570, 2572, 2573 and 2574.

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#### CTA1726 1/2" square drive Toyota Oil Filter Wrench

- Services ALL Toyota/Lexus oil filter housing caps for 4, 6 & 8 cylinder engines
- Heavy-welded steel for precision fit and high torque when removing oil filter housings
- Also fits many spin on filters, including Honda, Infiniti & Nissan • 64mm x 14 Pt



#### LIS61500 17 Piece Heavy Duty End Cap Wrench Set

- An improved, heavy-duty design with a welded steel plate for strength
- Set fits the most popular domestic and import vehicles
- Includes the 61600 for Toyota applications with heat-treated and welded plate
- Set Includes: 61510, 61520, 61530, 61540, 61550, 61560, 61570, 61580, 61590, 61600, 61610, 61620, 61630, 61640, 61650, 61660 and 61670



#### OTC6784 3 Piece Euro/GM Oil Socket Kit

- 3/8" drive, forged sockets
- Kit includes: 27mm socket for the Cadillac STS 3.2L V6 and the Mercedes-Benz 1.8L I4; 32mm socket for the 2.2L GM Ecotec and Saabs; 36mm for the BMW M52, M60, M62, M70 and M73 engines; M-B OM604, 605 and 606 engines; VW/Audi VR6 engine



**⚠ WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



#### ANRTOY300 Toyota/Lexus Oil Filter Wrench Set

- Covers all Toyota and Lexus vehicles 1980-2009, based on factory filters
- This set includes our tool numbers ASSTOY640, ASSTOY730, and ASSM0219.



#### ANRJA5614 Oil Filter Wrench

- 65mm
- 14 Flats
- 3/8" Drive
- Applicable to Honda and Nissan



Used on 2017 Jaguar 2.0L Diesel. Also works on Honda (except S2000) and Nissan oil filters. Kawasaki factory filter# 16097-0003 and Yamaha factory filter #5GH-13440-00 and works on the Powersports vehicles that utilize "HF303" oil filters including Honda, Polaris, Kawasaki and Yamaha.

#### ANRTOY647LG 3/8" Drive Toyota Oil Filter Wrench

- Applicable to [2005-2017] Toyota V6 and V8 engines with canister style filter cartridge (except Sequoia)
- Also fits Camry, RAV4 with 4 cylinder engines. (will NOT fit Corolla or Prius)
- Engages the notches on the V6 and V8 Filter Housings
- Attaches to the 14 Flats and Side tabs
- Heavy duty steel construction



#### PBT71115A Toyota/Lexus Oil Filter Wrench Kit

- Complete service kit for Toyota/Lexus oil change service
- Hose assembly allows oil to be drained from the filter housing before removal
- 24mm (15/16") HEX 64.5mm with 14 Flutes




Kit contains one each:

- PBT71110A Toyota/Lexus Oil Filter Wrench – 4 cylinder
- PBT71113A Toyota/Lexus Oil Filter Wrench – 6 & 8 cylinder
- PBT71114 Toyota/Lexus Oil Filter Drain Hose Assembly

## ENGINE MECHANICAL

### Cup Type Oil Filter Wrenches

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Part #	Application/Features	Includes	Drive
<b>ASS2124</b>	BMW, Saturn	24mm 6 flats	3/8" drive
<b>ASS2127</b>	Cadillac 2L, Mercedes 1.8L	27mm 6 flats	3/8" drive
<b>ASS2132</b>	GM, Saab, Saturn 2.2L	32mm 6 flats	3/8" drive
<b>ASS2136</b>	Ford, BMW, VW, Volvo	36mm 6 flats	3/8" drive
<b>ASS2175</b>	Audi, BMW, Dodge, MB, VW	74.5mm 14 flats	3/8" drive
<b>ASSM0219</b>	Asian, Ford, Chrysler	74mm 14 flats	3/8" drive
<b>ASSTOY640</b>	Toyota	64mm 14 flats	3/8" drive
<b>ASSTOY730</b>	Toyota/Lexus/Mercury Marine	73mm 14 flats	3/8" drive
<b>ASSV410</b>	BMW, Volvo	86.5mm 16 flats	3/8" drive
<b>KTI73607</b>	Hastings, Fram, Purolator, Nissan, Honda, Motorcraft, Mazda, Subaru	80mm 15 flute	3/8" drive
<b>KTI73608</b>	Wix	82mm 15 flute	3/8" drive
<b>KTI73609</b>	BMW, Mercedes, VW, Audi	86mm 14 flute	3/8" drive
<b>KTI73610</b>	Fram filters made in Canada, Mitsubishi	65/67mm 14 flute	3/8" drive
<b>KTI73611</b>	Hastings, Mazda, Ford Escort and Capri, Subaru	68mm 14 flute	3/8" drive
<b>KTI73612</b>	Toyota/Lexus	73/74mm 14 flute	3/8" drive
<b>KTI73613</b>		65mm 14 flute	3/8" drive
<b>KTI73613N</b>	Acura, Honda, Nissan, Toyota	64/65mm 14 flute	3/8" drive
<b>KTI73614</b>	Fram, AC, Saturn	74-76mm 15 flute	3/8" drive
<b>KTI73615</b>	Champion, Champ Lee, Purolator, Mopar, VW, Porsche, Mercedes, BMW	76mm 14 flute	3/8" drive
<b>KTI73616</b>	Casite, Champion, Champ Lee, GM, Fram, Hastings, Purolator, Wix, Nissan, VW, Porsche, Renault	93mm 15 flute	3/8" drive
<b>KTI73617</b>	Motorcraft FL400A	76mm 30 flute	3/8" drive
<b>KTI73623</b>	BMW, Volvo	86mm 16 flute	3/8" drive
<b>KTI73624</b>	Hyundai, Kia	88.4mm 15 flute	3/8" drive
<b>KTI73625</b>	Motorcraft - FL1A, FLA1B, FL300, FL820	93mm 36 flute	3/8" drive
<b>KTI73626</b>	VW, Audi, Seat, Skoda, VW, Audi	93mm 45 flute	3/8" drive
<b>KTI73627</b>	Audi, VW, Renault	96mm 18 flute	3/8" drive
<b>KTI73628</b>	Fram, Motorcraft, Wix, Isuzu, Mitsubishi	100mm 15 flute	3/8" drive
<b>KTI73630</b>	Toyota/Lexus	64.5mm 14 flute	3/8" drive
<b>KDT2790</b>	AC/Delco, Farm, Wix, STP, NAPA, Sears, Gard, VW, Motorcraft & other filters	76mm (3") 15 flats	3/8" drive
<b>KDT2991</b>		95mm (3-3/4") 15 flats	3/8" drive
<b>KDT3253</b>	Toyota - Late Models	65mm 14 flats	3/8" drive
<b>KDT3932</b>	GM, Saturn	32mm 6 flats	3/8" drive
<b>KDT3933</b>	VW	27mm 6 flats	3/8" drive

## ENGINE MECHANICAL

### Cup Type Oil Filter Wrenches

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Part #	Application/Features	Includes:	Drive
<b>KDT3934</b>	Volvo, VW, Ford	36mm 6 flats	3/8" drive
<b>KLA0122-401</b>	Harley Davidson	74mm 14 flats with cutout	3/8" drive
<b>LIS14500</b>	Ford 6.0L Diesel, Mini, BMW	35mm/36mm 6 flats	3/8" drive
<b>LIS14600</b>	Fuel/Oil 5.9L Dodge/Cummins	29mm 6 flats	3/8" drive
<b>LIS14700</b>	GM/Saturn/Saab 2.0, 2.2, 2.4L	32mm 6 flats	3/8" drive
<b>LIS61600</b>	Toyota/Scion/Lexus/Pontiac	64/65mm 14 flute	3/8" drive
<b>CTA2465</b>	Toyota/Scion/Lexus	64mm 14 flute	3/8" drive
<b>PBT71110A</b>	Toyota/Lexus 4 cylinder	64.5mm 14 flute	24mm Hex
<b>PBT71113A</b>	Toyota/Lexus 6 and 8 cylinder	64.5mm 14 flute	24mm Hex
<b>OTC6901</b>	Olds 3.5L V6	74mm 15 flats	3/8" drive
<b>OTC6903</b>	Ford/Mazda 2.3L	75.6mm 14 flats	3/8" drive
<b>OTC6904</b>	Hyundai/Kia 3.3L V6	88.2mm 15 flats	3/8" drive

**GW GEARWRENCH**



### Oil Filter Sockets

**GW GEARWRENCH**



**KDT41890**

**6 Piece Oil Canister Socket Set**

- Low profile sockets for better access
- Set includes: KDT3932D - 32mm, KDT3933D - 27mm, KDT3934D - 36mm, KDT3935 - 24mm and KDT3939D - 38mm oil filter sockets

**OTC**



**OTC6786**

**6 Piece Oil Filter Cart Socket Set**

- Fits today's oil filter cartridge style filter applications
  - Short socket style allows for proper clearance when removing the filter element
- Sizes include: 24mm 27mm 29mm 32mm 35/36mm and 38mm



**OTC6784**

**3 Piece Euro/GM Oil Socket Kit**

- Popular oil filter wrenches for the GM, BMW, Audi, and VW
- High quality, 3/8" drive, forged sockets designed to last a lifetime



**SUNEX**  
TOOLS



**SUN3671**

**6 Piece 3/8" Drive Oil and Fuel Filter Socket Set**

- Services oil filter applications on most foreign and domestic vehicles
  - Made from high quality chrome vanadium alloy steel
- Sizes include: 24mm, 27mm, 29mm, 32mm, 35/36mm, 38mm

Kit includes: 27mm socket for the Cadillac STS 3.2L V6 and the Mercedes-Benz 1.8L I4; 32mm socket for the 2.2L GM Ecotec and Saabs; 36mm for the BMW M52, M60, M62, M70 and M73 engines; M-B OM604, 605 and 606 engines; VW/Audi VR6 engine.



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ASTTool.com

**ANRTOY640**

**Assenmacher TOY640 Oil Filter Socket Wrench for Toyota and Lexus**

- Made of cast aluminum
- 64mm with 14 flats
- Won't damage plastic filter housing
- Use in conjunction with a 24mm or 15/16" socket



## ENGINE MECHANICAL

### Oil Filter Sockets



#### LIS13300

##### 5 Piece Low Profile Filter Socket Set

- Contains very low profile, 6 point 24mm, 27mm, 29mm, 32mm and 35/36mm sockets for use on oil and fuel filter canisters when replacing the element
- Use with 3/8" drive

Set includes: 24mm for Cadillac and some BMW, 27mm for 2003 and later Mercedes 1.8L, Smart and some VW, 35/36mm for Ford 6.0L diesel fuel and oil filter housings, Mini Cooper and some BMW oil filter housings, and Mack Truck oil filter housings, 29mm (1-1/8in.) for Dodge Cummins fuel filter housing and 32mm (1-1/4in.) for GM Ecotec, 2.0L, 2.2L and 2.4L four cylinder oil filter housing; some Saturn and Saab.

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#### LIS13270

##### 7 Piece Low Profile Filter Socket Set

- Contains very low profile, 6 point 24mm, 25mm, 27mm, 28mm, 29mm, 32mm and 36mm sockets for use on oil and fuel filter canisters when replacing the element. Use with 3/8" drive

Set includes: 13280 - 25mm, 13290 - 28mm, 13310 - 24mm, 13320 - 27mm, 14500 - 36mm, 14600 - 29mm and 14700 - 32mm

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Part #	Size	Part #	Size
LIS14700	1-1/4"	KTI73618	32mm
KDT3935	24mm	SUN367132	32mm
KDT3933	24mm	KDT3934	36mm
SUN367127	27mm	KTI73619	36mm
KDT3936	29mm	SUN367135	36mm
KDT3932	32mm	KDT3939D	38mm

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### Drain Plug Tools



#### OTC5961HD

##### Heavy Duty Drain Plug Pro™ Tool Kit

- Safely remove heavy duty oil pan drain plugs avoiding contact with hot oil and preventing dropped drain plugs and other fasteners
- The flexible shank with 3/8" square drive helps remove or thread smaller fasteners even in hard to reach places!
- Use with any 3/8" square drive socket in your tool box



#### OTC5961

##### Drain Plug Pro™ Tool Kit

- Interchangeable design: includes attachments for standard drain plugs, low profile drain plugs, internal hex drain plugs (17mm), and 1/4" hex bits!
- Use with any 1/4" square drive socket in your tool box



#### KDT3870

##### 7 Piece Magnetic Drain Plug Socket Set

- Set contains the most popular Metric sizes (13-19mm)
- Color coded anodized aluminum press fit for ease of use
- Each socket features a magnetic core which holds hot drain plugs in place during use
- Includes 3/8" drive GearRatchet - needs as little as 5 degrees of swing arc to operate..low profile
- Knurled Speeder Ring option on each socket provides quick removal and installation
- System works with any 3/8" drive ratchet - universal tool



**ASSENMACHER  
SPECIALTY TOOLS**  
ASTTool.com



#### ASSVW10549

##### Oil Drain Plug Tool for VW

- For removing and installing engine oil drain plug on 92015-20160 VW/Audi 1.8 and 2.0 turbo gas engines
- Applicable engines: CPKA, CPRA, CPPA, CBFA, CCTA, CBEA, CNTA, CXCA, CCXBB, CXBA, CPKA, CNSB and CNSA

## ENGINE MECHANICAL

### Drain Plug Tools



#### KTI00009 60-Piece Drain Plug Gasket Kit Poly and Fiber

General purpose gasket kit includes the 7 most popular sizes of poly and fiber gaskets.



#### KTI00058 40-Piece Drain Plug Assortment

Contains 12 of the most popular drain plugs which provides excellent coverage for most domestic and imported cars and light trucks. Application guide is included. Gaskets sold separately.



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Part #	Description	Qty	Refill
KTI04134	1/2" Fiber Drain Plug Gasket	20	10
KTI04135	1/2" Poly Drain Plug Gasket	10	10
KTI04136	12mm Poly Drain Plug Gasket	10	10
KTI04137	14mm Poly Drain Plug Gasket	5	10
KTI04138	16mm Fiber Drain Plug Gasket	5	10
KTI04139	18mm Fiber Drain Plug Gasket	5	10
KTI04140	20mm Fiber Drain Plug Gasket	5	10

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#### KTI00059 27-Piece Drain Plug Assortment

Contains 9 popular oversize drain plugs and gaskets for the repair of stripped drain pan threads. Six sizes including single, double and triple oversize plugs. Includes fiber gaskets. Contains a total of 12 drain plugs and 15 gaskets.



Part #	Description	Qty	Refill
KTI04125	Drain Plug M14-1.50 Single Oversize	2	5
KTI04141	Fiber Gasket 1/2" Double Oversize	5	10
KTI04142	Fiber Gasket 1/2" Single Oversize	5	10
KTI04168	Fiber Gasket M14	5	10
KTI04181	Drain Plug 1/2" Single Oversize	2	5
KTI04182	Drain Plug 1/2" Double Oversize	2	5
KTI04183	Drain Plug 1/2" Triple Oversize	2	5
KTI04184	Drain Plug 1/2" Single Oversize Piggyback	2	5
KTI04185	Drain Plug 1/2" Double Oversize Piggyback	2	5

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Part #	Description	Qty	Refill
KTI04120	Drain Plug 12mm-1.75 Pilot Point w/Gasket	3	5
KTI04121	Drain Plug 14mm-1.50 Pilot Point w/Gasket	3	5
KTI04123	Drain Plug 14mm-1.50 Pilot Point w/Gasket	5	5
KTI04124	Drain Plug 12mm-1.75 Pilot Point w/Gasket	3	5
KTI04126	Drain Plug 14mm-1.50 Pilot Point w/Gasket	3	5
KTI04188	Drain Plug 12mm-1.25 Standard Zinc	3	5
KTI04189	Drain Plug 12mm-1.75 Pilot Point	3	5
KTI04190	Drain Plug 14mm-1.50 Standard Zinc	3	5
KTI04193	Drain Plug 1/2-20 Pilot Point w/Gasket	3	5
KTI04195	Drain Plug 14mm-1.50 Standard Zinc	3	5
KTI04196	Drain Plug 14mm-1.50 Pilot Point	3	5
KTI04198	Drain Plug 12mm-1.75 Pilot Point w/Gasket	3	5



#### V8T3304 4 Piece 1/2" Drive Drain Plug Socket Set - 32mm

- Made of high strength alloy steel, our set includes the four most popular sizes of drain plugs
- 8mm male, 10mm male, 1/2" male and 10mm female

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#### SCH91900 Radiator Drain Plug Socket

- Snaps on a 3/8" square drive extension allowing it to reach into confined areas
- 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

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## ENGINE MECHANICAL

### Drain Plug Tools



#### CTA1037

##### VW/Audi Plastic Oil Drain Plug Tool

- Remove new, plastic drain plugs without damage
- Services 1.8L & 2.0L gas turbo 2015 & up VW & Audi vehicles
- Wide thumb-grip allows proper torque

#### CTA4334

##### Cummins Oil Filter Plug

- For use on 2013-2018 Dodge RAM 6.7L Cummins Diesel 2500/3500 Heavy-Duty models
- The oil filter plug tool allows the technician to pre-lube the oil filter before installation



### Oil Change Drain Pans



#### PLW75-750

##### 6 Gallon Galvanized Steel Radiator Drain Pan

- Pouring with anti-splash baffle prevents spilling
- Rolled smooth edge and ribbed bottom for heavy duty strength
- 19" in diameter and 6" in height



#### PLW75-751

##### General Purpose

##### 3-1/2 Gallon Utility Drain Pan

- Seamless, full drawn galvanized steel
- Rolled rim and ribbed bottom for extra strength



#### PLW75-760

##### 6 Quart High Plastic Drain Pan

- With pouring lip
- Will not rust, dent or scratch
- 13" diameter x 4" high



#### RHG11845

##### Oil Drain Pan, 5 Gallon Capacity

- 5 gallon drain pan for easier, cleaner oil changes
- Molded handle makes carrying, pouring and storing easy
- Tested and approved to be UN/DOT Compliant

### Oil Change Drain Pans



#### LIS17932

##### Plastic 6 Quart Drain Pan

- Plastic drain pan with pour spout
- The pan is 4" deep, 14" wide to the spout



#### LIS17942

##### Plastic 4-1/2 Gallon Black Spill Proof Drain Pan

- High-density polyethylene material is resistant to chemicals and solvents
- 1" wide diameter spout for quick and easy pouring
- The anti-splash lip and baffles help prevent spilling

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### Oil Funnels



#### ASSOFAUD1000

##### Euro 1/4 Turn Oil Filler

- Fits BMW 6 and 8 cylinders 1996-Newer
- Fits Dodge Sprinter
- Fits Mercedes 112 and 113 Engines
- Fits VW/Audi Engines: 1.8T, 1.9L TDI, 2.0T, 2.8L(30v), 3.0L(30v), 3.2L, 3.6L, and 4.2L(40v)

The ASSOFAUD1000 is a VW/Audi, BMW, Dodge Sprinter 2.7L and Mercedes Oil Funnel specifically designed to attach to the valve covers. Patent-pending.

#### ASSOFTOY1001

##### Toyota Oil Funnel

- Fits all Toyota and Lexus models with 3.0L and 3.3L V6 Engines
- No more mess
- Patent-Pending



The ASSOFTOY1001 Toyota Oil Funnel is specifically designed to attach to the 1/4-turn valve covers.



#### ASSOFHON1033

##### Asian/Domestic Oil Funnel

- Made of durable ABS plastic
- No more mess
- Threads and seals onto the valve cover



Fits Honda Accord, Civic, Element, Fit (through 2008), NSX and S2000. All Acura models (except MDX and RDX) Fits most Nissan models. Fits Dodge Neon and some Cummins Turbo Diesel Rams. Fits Ford Power Stroke engines (6.9L, 7.3L, 6.0L and 6.4L)



## ENGINE MECHANICAL

### Oil Funnel



#### ASSOFTOY1038

##### Toyota Threaded Oil Funnel

- Made of durable ABS plastic
- No more mess
- Attaches and seals to the valve cover
- Fits all Toyota, Lexus, and Scion models that have a threaded oil cap (except Prius), also fits Pontiac Vibe with Toyota motor



Toyota oil funnel is used on all Toyota, Lexus, and Scion models that have a threaded oil cap. (except Prius) Prevents an unwanted mess.



#### CTA7470

##### 9 Piece Oil Filling System

- Universal funnel for use with 7 different adapters
- Angled extension arm with swivel feature for use in hard-to-reach or low clearance applications
- Adapters are color-coded
- All parts available separately
- 2 liter funnel

Allows for fast oil filling without spillage. Great for many late model vehicles with internal baffles. 2 liter funnel fits adapters for wide application range. Color-coded adapters fit oil filler hole.

Following parts available separately:

- No. # 7471 - 2 Liter Funnel - Fits all adapters
- No. # 7472 - Angled Extension - Fits all adapters
- No. #7473 - Adapter w/ Bayonet Fitting (Red) - Audi, BMW, Dodge, Mercedes, Porsche, Volvo, VW
- No. #7474 - Adapter w/ M42 x 4.5 Thread (Purple) - Subaru
- No. #7475 - Adapter w/ M37 x 3.0 Thread (Blue) - Toyota, Lexus, Scion, and Pontiac Vibe
- No. #7476 - Adapter w/ M35 x 4.0 Thread (Orange) - Mazda
- No. #7477 - Adapter w/ M32 x 3.5 Thread (Green) - Dodge Cummins Turbo Diesel, Dodge Neon, Honda, Acura, Nissan, Jaguar, Ford
- No. #7478 - Adapter w/ Bayonet Fitting (Yellow) - Toyota and Lexus w/ 3.0 & 3.3L V6
- No. #7479 - Adapter (Aluminum) - Cadillac, Chevy, Ford, GMC, Hyundai, Jaguar, Land Rover, Mazda, Mercury, Pontiac, Saab, Saturn

### Compression Testing



#### UVU560000

##### Combustion Leak Tester

- Dual chamber unit eliminates false positives and provides for a high accuracy test
- One universal test fluid for both gas and diesel
- 16 ounce test fluid good for 16 applications
- Foam lined storage case to protect the tester (glass)



#### MILS1251

##### Deluxe Compression Tester

- Double fiber braided neoprene hydraulic hose
- Includes 14mm long reach adapter and spare valve core
- Composite metric scale reads both PSI and all metric ranges
- 0-300 PSI 0-21 kg/cm<sup>2</sup>
- 0-2100 kPa 0-21 bars



#### KDT3305

##### Universal Compression Tester Kit

- Gauge is graduated from 10 to 300 psi (0-21 Kg/cm<sup>2</sup>)
- Gauge assembly includes pressure relief valve
- Special air hold valve for ease in resetting the gauge

Kit includes: gauge assembly, extension, straight adapter with rubber cone and a 451 adapter with rubber cone



#### KDT2428

##### Cylinder Compression Tester

- Checks cylinder compression from 0 to 300 psi (0-21 Kg/cm<sup>2</sup>)
- Adapters fit 14mm and 18mm spark plug holes
- Special air hold valve for easy resetting of gauge • 16" rubber hose



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## ENGINE MECHANICAL

### Compression Testing



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**LIS20250**  
**0-300 PSI 14mm and 18mm**  
**Compression Tester**

- Gauge registers 0 - 300 P.S.I. and 0 - 2100 kpa
- Fits 14mm and 18mm thread sizes

Compression tester is made to quickly and accurately check compression on gasoline engines.

**LIS20530**  
**Compression Tester Adapter,**  
**for 10mm Spark Plug Threads**

**LIS20540**  
**Compression Tester Adapter,**  
**for 12mm Spark Plug Threads**



**MITMV5532**  
**Digital Compression Test Kit**

- Stores maximum compression value up to 12 cylinders
- Backlit LCD for easy to read from any angle and in any light
- Uses standard 9V battery
- Automatically shuts off after 3 minutes of non use (memory retained)
- Rubber boot protects the gauge from bumps and drops

Sealed, grease and oil resistant gauge face prevents contamination of electronics. Displays values in PSI; Bar and kPa. This comprehensive gasoline engine compression test kit features an electronic tester that memorizes the peak compression value for each cylinder. When testing is complete, the values can be quickly reviewed at the push of a button. Everything is included to perform wet and dry compression tests commonly used to detect ring or cylinder head problems, sticking valves, blown head gasket(s) and more. Includes adapters for use on motorcycles and marine and small engines, and an air-hold adapter for performing valve seal repairs without removing the cylinder head(s). Not for use on diesel engines.



**MIT5530**  
**Professional Compression Test Kit**

- Manual pressure release for maintaining peak readings
- Professional grade threaded adapters for leak proof seals
- Extended hoses for hard to reach applications
- Large, easy to read 2-3/4" diameter gauge
- Adapters to fit engines as small as lawn mowers, chain saws and trimmers

Quick disconnect coupler for easy accessory changes. This comprehensive kit includes everything required to perform dry and wet engine cylinder compression tests commonly used to detect ring or cylinder head problems, sticking valves, blown head gaskets, and more. Includes adapters for use on motorcycles, marine and small engines, and an air-hold adapter for performing valve seal repairs with removing the cylinder head(s). Not for use on diesel engines.



**MIT5525**  
**Compression Tester**

- Large easy-to-read pressure gauge
- Universal rubber adapter fits virtually any size spark plug hole
- Manual release valve holds peak and pressure readings for easy recording
- Small compact unit fits conveniently into tool box

This quick-test style tester does not require threading into the spark plug hole, making it an ideal, economic solution for quickly diagnosing engine compression problems such as worn piston rings, sticking or burnt valves, blown head gasket(s), or carbon build-up in cylinders, on cars and small engines. Not for use on diesel engines. Includes 2 3/4" (70 mm) diameter Bourdon tube gauge readings indicated in four (4) scales of measure: bar, psi, kPa, and kg/cm<sup>2</sup> with pressure release and quick-change coupler, and stem with universal rubber spark plug hole adapter and manual release pressure valve. Also includes user manual (English/Spanish/French)

## ENGINE MECHANICAL

### Compression Testing

# OTC

#### OTC5605 Deluxe Compression Tester Kit

- Corrosion resistant nickel plated finish
- Adapters work on both flat and tapered seat plugs
- Extra long 25" flex hose gauge assembly with quick coupler, allows easy viewing out of cluttered engine compartment
- 2-1/2" gauge features chrome bezel and rugged protective outer boot
- Dual scale gauge reads 0-300 psi and 0-2100 kPa



Complete with standard and specialty adapters, this deluxe kit offers a complete package for compression testing on gasoline engines. Kit includes the deep well connector used on recessed plug well style heads and the new Ford Triton™ engine adapter using 16mm thread plugs. Also includes 12" flex-14mm standard reach, 12" flex-14mm long reach, 10mm, 12mm and 18mm thread adapters and a repair parts kit packaged in a rugged blow-molded hard case with removeable lid.

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#### OTC5609 Cylinder Leakage Tester Kit

- Dual 2-1/2" gauges feature chrome bezel and rugged protective outer boot
- Scales read 0-100 psi and 0-700 kPa
- Pressure regulated manifold includes quick couplers
- Long flex 24" 14mm hose
- 10mm, 12mm and 18mm thread adapters

Quickly diagnose internal engine problems such as bad rings, valves and leaking head gaskets. Kit comes complete with adapters for most applications. Comes with detailed instruction chart all packaged in a blow molded hard case with removable lid.

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# OTC



#### OTC5606 Compression Tester Kit

- Corrosion resistant nickel plated finish
- Adapters work on both flat and tapered seat plugs
- Extra long 25" flex hose gauge assembly with quick coupler, allows easy viewing out of cluttered engine compartment
- 2-1/2" gauge features chrome bezel and rugged protective outer boot
- Dual scale gauge reads 0-300 psi and 0-2100 kPa

Designed for complete compression testing on gasoline engines, including domestic, imports, motorcycles, marine, and small engines. Unique problem solving features for today's limited space engine compartments. Also includes 12" flex - 14mm standard reach, 12" flex - 14mm long reach, 10mm, 12mm, and 18mm thread adapters, and a repair parts kit all packaged in a rugged blow molded hard case with removable lid.

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#### OTC5603 Compression Tester - Deep Well Connector

- Use with OTC compression testers or other compression testers with a standard quick connect
- Solid steel 8" length shaft
- Upper t-wing grip for ease of installation and removal
- Popular 14mm thread for both flat and tapered seat plugs
- Corrosion resistant nickel plated finish

This unique connector allows easy access to hard-to-reach spark plug hole on Hemi style and recessed plug well style heads.

## ENGINE MECHANICAL

### Compression Testing



**SGT34300  
Heavy Duty  
Compression Tester  
for Gasoline Engines in a Molded Plastic Case**

- Complete kit for testing compression of gasoline engines on domestic and foreign cars and trucks plus motorcycles, snow mobiles and lawn mowers
- Adapters provided for 10mm, 12mm, 14mm and 18mm applications
- Flex hose eliminates need to remove auxiliary equipment such as power brakes and steering, air conditioning and manifold
- Screw-in adapters guarantee accuracy over push-in type testers
- Comes in a molded plastic storage case

Other features include: quick disconnect for easy hook ups; quick side release valve permits retests without removal of adapters. Comes complete with repair kit that includes "O" rings, valve cores and installation tool. Gage ranges: 0-300 PSI and 0-21 BAR. Full instructions provided.



**SGT34000  
Universal Compression Tester for Gasoline Engines**

- Tests compression on all domestic and foreign cars and most trucks
- Adapters fit vehicles with 14mm and 18mm plugs including long reach and 5/8" hex plugs
- Flex hose eliminates need to remove auxiliary equipment such as power brakes and steering, air conditioning and manifold
- Screw in adapters guarantee accuracy over push-in type testers
- Quick side release valve permits retest without removal of adapters



**STATU3PB  
Universal Compression Tester**

- Adapters included: 14mm and 18mm short solid adapter, 14mm and 18mm long flex adapter, and 14mm long reach adapter
- Screw-in adapters with o-rings provide professional accuracy
- Long flex 12" hose and adapters eliminate need to remove engine accessories to test compression
- Side release valve allows quick re-testing of cylinder without removing adapter
- The 2-1/2" gauge has a dual scale dial with ranges from 0-300 PSI and 0-21 bar

This universal compression tester test compression on domestic and foreign cars and trucks with gasoline engines. This kit comes with adapters, screw in adapters, and a long flex hose. Also includes the instructions and specifications. It works great for any technician!



**STACLT-2PB  
Cylinder Leakage Tester in a Plastic Case**

- This tester measures the ability of an engine cylinder to hold compressed air using shop air pressure and supplements a compression tester
- Pinpoints bad valves, worn rings, cracked cylinder walls, and blown head gaskets
- Furnished with rubber boots to protect gauges
- Includes a precision regulator with a M14 adapter on a 26" hose assembly
- Neatly arranged in a plastic box

The 2-1/4 in. special gauge has one multicolored band for measuring low, moderate and high leakage, and a scale range from 0-100%. The second gauge is 2-1/4 in. and has a dual scale dial with ranges from 0-100 PSI and 0-7 bar, which allows the technician to monitor input airline pressure.

## ENGINE MECHANICAL

### Compression Testing



#### STATU30A Compression Test Kit

- Tests compression on all major model vehicle platforms, domestic and foreign with gasoline engines, including motorcycles, mini engines, snowmobiles, outboard motors, and more
- Features new patent pending Ford Triton engine compression adapter that fits both the M16 spark plug port and the new, redesigned M12 spark plug port
- Quick coupler connection on gauge assembly for fast and easy changing of hose and adapter assemblies
- 68mm gauge has dual scale dial with ranges from 0-300 PSI and 0-21 Bar
- Gauge maintains highest compression test reading and resets to zero with a push button release valve



Adapters can be used on either flat or tapered spark plug hole seats. Set includes: 24" hose assembly with quick coupler; new patent pending M12 x M16 short thread solid adapter for compression testing where spark plug holes are deeply recessed M14 hose adapter with short thread; M14 hose adapter with long thread; M10 adapter with short thread; M14 adapter extension; Separate small engine tester (TU-21) with M14 x M18 threads and gauge with dual scale dial ranging from 0-200 PSI and 0-14 bar; Instruction and labeling that clearly identifies each product. Snap fit blow molded case or convenient storage.

#### STATU15-24 Compression Test Diesel Adapter - M14-1.25

- Use with STAR Diesel Compression Tester TU-15
- M14-1.25 thread adapter attached to a hose and quick-disconnect
- Screws into the head of the engine in the glow plug hole



### Diesel Compression Testing



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#### MITMV535 Digital Diesel Compression Test Kit

- Stores maximum compression value for up to 12 cylinders
- Backlit LC display is easy to read from any angle and in any light
- Automatically shuts off after 3 minutes of non-use (memory is retained)
- Uses standard 9V battery for convenience and cost
- Rubber boot protects the gauge from bumps and drops



Sealed, grease and oil-resistant gauge face prevents contamination of electronics. Displays values in PSI, Bar and kPa. This comprehensive diesel engine compression test kit features an electronic tester that memorizes the peak compression value for each cylinder. When testing is complete, the values can be quickly reviewed at the push of a button.



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#### SGT34900 Diesel Engine Compression Tester Set

- Includes diesel compression tester and five of the most popular diesel tester adapters
- Presented in a molded plastic storage case with carrying handle
- Instructions for each adapter are included



Includes adapter for Volkswagen, Volvo, Audi and others; adapter for small Cummins engines; adapter for GM cars and 6.9 and 7.3 liter Ford/International engines; adapter for Bacharach adapters and adapter for Mercedes Benz cars.

## ENGINE MECHANICAL

### Diesel Compression Testing



#### SGT34700

##### Diesel Compression Tester

- Measures cylinder pressure on diesel equipped cars and trucks
- Records maximum pressure reached during engine test
- Release valve allows for immediate venting and resets gauge for repeat tests
- High pressure hose is 16-1/2" long
- Gauge is scaled from 0-1,000 PSI and 0-70 BAR

Adapters are not included and must be ordered by individual catalog number.



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#### OTC5021

##### Universal Diesel Engine Compression Gauge

- Features include a check valve, push button compression release, and a quick disconnect fitting on the hose end
- Straight and 45 degree hose connectors are included



#### OTC6660

##### Ford 6.0L Diesel Compression Tester Adapter

- OEM design
- Works on the Ford 6.0L diesel engine
- Meets or exceeds OTC quality standards

The OTC6660 adapter is used to connect the OTC5021 Diesel Compression Tester gauge to perform a compression test.

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#### OTC6076

##### Ford Diesel Compression Test Adapter

- Diesel engine compression gauge
- Works on 1994-newer Ford Vans and pickups with 7.3 L direct injected turbocharged (DIT) diesel engine

When the glow plug is removed from the cylinder, this adapter is used to connect the No. 5021 to perform a compression test

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#### STATU15-70

##### Diesel Compression Test Set with Tester and Adapters

- Contains tester and all the most popular adapters needed to test heavy-duty trucks and equipment
- Includes our TU-15 gauge with easy to read red and black dial and snap-in lens

Adapters included in this set: TU-15-4A, TU-15-8, TU-15-9, TU-15-11A, TU-15-12A, TU-15-14, TU-15-17, TU-15-18A, TU-15-19, TU-15-20, TU-15-21, and TU-15-23.

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#### STATU15

##### Diesel Compression Tester

- For testing cylinder pressure on diesel cars and trucks
- Release air and automatically reset gauge for repeat testing
- Swivel end quick coupler for easy connection to adapters
- 16-1/2" long wire reinforced hydraulic hose
- Adapters from most other manufacturers are interchangeable with this tester

2-1/4" gauge has a dual scale dial with ranges from 0-1000 PSI and 0-70 bar.

## ENGINE MECHANICAL

### Diesel Compression Testing



#### STATU15-53 Diesel Compression Test Set

- This is a great basic set and a must have for diesel work in the American market
- Includes STAR Diesel Compression Tester TU-15 with easy to read red and black dial and snap-in lens
- Comes in a very attractive red plastic box with compartments to keep tester and all components neatly arranged

Includes adapters TU-15-1A through TU-15-6, TU-15-14, as well as TU-15-17 for Cummins used in Dodge SUVs and Trucks, and TU-15-22A for 7.3 Turbo Direct Injection for Navistar/Ford. Includes adapters for GM, Isuzu, Lincoln Mark VII Continental and Ford / Navistar, Audi, Mercedes, Peugeot, Toyota, VW, Volvo.

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vehicle | SPECIALTY



#### STATU15-51 American Diesel Compression Tester Kit

- A great basic set for diesel work in the American market
- Release air and automatically reset gauge for repeat testing
- Swivel-end quick coupler for easy connection to adapters
- 16-1/2" long wire reinforced hydraulic hose
- 2-1/4" gauge has a dual scale dial with ranges from 0-1000 PSI and 0-70 bar

Adapters included for Audi, GM, Isuzu, Lincoln, Ford/Navistar, Mercedes, Peugeot, Toyota, VW, Volvo and more.

#### Available Adapters for STATU15-51 and STATU15-53

Part #	Description	STATU15-51	STATU15-53
STATU-15-1A	Glow Plug	•	•
STATU-15-3A	Glow Plug	•	•
STATU-15-6	Glow Plug	•	•
STATU-15-12A	Injector		
STATU-15-18A	Injector		
STATU-15-19	Injector		

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## ENGINE MECHANICAL

### Fan Clutch Tools



#### SCH61200

##### 2 Piece Domestic Fan Clutch Wrench 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)

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#### SCH99800A

##### GM and Chrysler Water Pump/Fan Clutch Pulley Holder

- Used on GM and Chrysler water pump pressed on pulleys
- Designed with billet cormoly bulkhead pins for durability
- Securely holds the water pump while SCH95210 removes fan clutch
- Heat treated • Comes in a SP HiTek black finish

With the use of a 36mm open end wrench part #88550, #93260 or #95210 the technician can loosen and tighten the fan clutch on many 1999 and later GM trucks, vans, SUV's, many 1998 and later Jeeps, also many 1998 and later Dodge trucks, vans and SUV's.

The 99800A is used on the following applications:

- G.M. 4.8 liter V-8, 5.3 liter V-8 and 6.0 liter V-8 1999 and later.
- 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 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.

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#### SCH61600

##### Universal Fan Clutch Wrench Pulley Holding Tool

- The 61600 replaces item's # 95220, 95230, 95270, and 96370
- This specially designed contoured water pump holder is exceptionally easy to use on vehicles using bolt on water pump pulleys to remove and replace the viscous fan clutch

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#### SCH61500B

##### GM Water Pump 4 Pin Fan Clutch Pulley Holding Tool

- Designed with billet bulkhead pins
- Billet bulkhead pins give greater durability
- Used on "pressed on" water pump pulleys
- Used on many 2000 and later GM trucks

With the use of a 48 mm open end wrench part #95210 the technician can loosen and tighten the fan clutch on many 2000 and later G.M. trucks.

Used on the following applications:

- 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 new pin bar fan hub 2006 and later.

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#### SCH95210

##### 48mm and 36mm Fan Clutch Wrench

- This fan clutch wrench 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)

#### SCH95260

##### Open End 40mm Fan Clutch Wrench

- 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



#### SCH62100

##### BMW 32mm Fan Clutch Wrench

- For 3, 5, 7 and 8 Series BMW Applications
- This heavy duty 32 mm wrench has been designed with extra length, a total of 17", to allow the technician to easily reach down to the fan clutch hex coupler
- The beefy design provides plenty of strength and leverage to loosen the toughest hex couplers
- This tools works handily with the SCH61600 Universal Fan Clutch Pulley Holding Tool.
- The heavy duty 32 mm wrench works on all models while the MS6160 universal holding tool works on all except the 4.0L & 4.4L V-8 engines
- Made from heat treated steel this wrench comes with a soft grip handle

## ENGINE MECHANICAL

### Fan Clutch Tools



#### AST7895 10 Piece Fan Clutch Wrench Set

- Allows you to hold the fan clutch with the clutch holder tool, while using the special wrench to turn the fan clutch nut
- Square drive allows attachment of a breaker bar for extra torque
- A must for any front engine service

Kit includes: 2-1/4" Fan pulley holding tool, 2-3/8" Fan clutch bolt holding tool, 2-1/8" Fan clutch pulley holding tool, 3-1/4" Fan pulley holding tool, 3" Fan clutch pulley holding tool, 2-13/16" Fan hub wrench, 1-7/16" Fan clutch nut wrench, 1-7/16" Fan clutch wrench, 1-9/16" Fan clutch wrench and 1-7/8" clutch nut wrench left hand.



#### CTAA886L BMW Fan Clutch Wrench Set

- One tool removes the lock nuts on the thermo-viscous fan, while the other holds the water pump pulley while loosening the radiator fan
- BMW 323i, 325i, 328i, 330i • Audi A6 & VW
- Bright nickel finish • OAL: 39cm



#### KDT41580 Fan Clutch Service Kit

- This versatile kit covers most vehicles with bolt or pulleys and also newer Chrysler engines with press on pulleys requiring special pins to hold housing
- Features the patented 35W universal pulley holder
- Complete individual part number breakdown with instructions on usage (English and Spanish)
- Includes blow mold case
- Lifetime warranty

Deluxe fan clutch wrench set for removing and installing the fan clutch on many models when repairing or replacing water pumps, timing chains, or the fan clutch. Kit includes: Universal Pulley Holder- designed to trap and hold bolt-on pulleys by the mounting bolts; Small pin set (5x8mm); Large pin set (cam pins, 6x10mm, 7.5x18mm); 22mm (7/8") Ford Ranger 3.0L; 36mm (1-7/16") Ranger, Explorer, Bronco; 40mm (1-9/16) F Series and E Vans; 47mm (1-7/8") F Series and E Vans 50mm (2").

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#### KDT3950 2 Piece 6.0L Powerstroke Fan Clutch Kit

- Designed for Fan Clutch removal on 2003 and above Ford 6.0L Powerstroke engines
- Unique fan clutch wrench grips and securely holds the pulley housing
- Fan clutch holding tool loosens and removes oval or round hole clutch nut

This kits is designed for fan clutch removal on newer Ford applications equipped with the 6.0 liter Powerstroke diesel engine available since 2003. The unique design and components of the tools included in this kit give the user the ability to grip and securely hold the pulley housing while applying torque to the 47mm clutch nut for loosening and removal.

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## ENGINE MECHANICAL

### Fan Clutch Tools

#### **GW GEARWRENCH**



##### **KDT3473**

##### **Ford Diesel Fan Clutch Wrench 6.9-L and 7.3-L**

- Use with 1/2" drive tools and torque wrench
- Refer to Ford factory service manual for torque specifications and thread direction
- Wrench opening is 48mm (1.889")

This is to be used in conjunction with the universal pulley holder (3471) to remove and replace the thermostatic fan assembly on Ford 6.9-L, 7.3-L and 7.3-L DIT diesel engines. Also available in a kit 41580.

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##### **KDT3422**

##### **Ford 4.9 Liter Fan Clutch Wrench**

- Wrench removes thermostatic fan assembly on 1993 to current 4.9-L Ford engines
- Wrench opening: 40mm

Makes the removal of the thermostatic fan assembly on 1993 to current 4.9-L Ford engines quick and easy. Use in conjunction with 58mm short wrench or universal pulley holder 3471. Both hold pulley while turning square shaft on the fan clutch.

#### **LANG TOOLS** Professional Tools For 4 Generations



##### **KAS3406**

##### **6 in 1 Fan Clutch Wrench**

- Combines 6 most common used wrench sizes onto one wrench
- Offset wrench provides better hand alignment
- Slim design improves accessibility
- 1/2" drive cutout for use with breaker bar
- 1 year warranty

Convenience of combing the 6 most popular commonly used wrench sizes onto one double end wrench. Eliminates the guess work of which size to use.

#### **GW GEARWRENCH**



##### **KDT3472**

##### **Pulley Holder / Fan Clutch Tool Kit**

- Includes the universal Pulley Holder part KDT3471 plus fan clutch wrenches KDT3422 and KDT3136-76
- Used to remove and replace thermostatic fan assemblies while eliminating the need for various size holding wrenches



##### **LIS44180**

##### **Fan Clutch Spanner Wrench**

- For GM, Jeep and Dodge trucks, vans and SUV's with pressed on water pump pulleys
- The double ended spanner wrench fits the holes in pressed-on water pump pulleys

Hold the pulley firm with the spanner wrench. Use the appropriate open end wrench to turn the fan clutch nut (41740 36mm turning wrench works on many applications).

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##### **LIS43600**

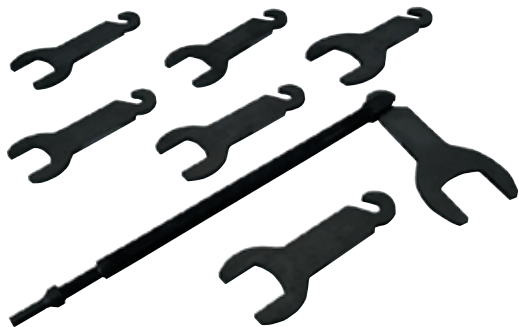
##### **Universal Fan Clutch Wrenches**

- A nearly universal Fan Clutch Wrench set for use on the most popular applications
- Unique hooked wrench design will hold bolted on water pump pulleys by applying pressure against another bolt
- The double-sided spanner style holding wrench will hold pressed on pulleys on many GM, Jeep and Dodge vehicles
- The double-ended turning wrench will work on 36mm and 47mm (1-7/8") sizes
- 1/2" square drive holes in the tools are for use with a hand ratchet or breaker bar to create a handle and allow extra force to be applied

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## ENGINE MECHANICAL

### Fan Clutch Tools



#### LIS43300

##### Pneumatic Fan Clutch Wrench Set

- Quickly removes and installs fan clutch when repairing the water pump or fan clutch
- Does the job much faster and easier than conventional fan clutch wrenches. No holding wrenches necessary
- Use with an air hammer

Set Includes: LIS43370 handle, LIS43380 32mm driving wrench, LIS43390 36mm driving wrench, LIS43410 1-7/8" driving wrench, LIS43420 2" driving wrench, LIS43430 7/8" driving wrench, LIS43440 40mm driving wrench and LIS43530 47mm driving wrench

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#### LIS43430

##### 7/8" Driving Wrench for LIS43300 Pneumatic Fan Clutch Wrench Set

- Fits Ford Ranger 3.0 liter engines, '93 and up

**LIS43410** - 1-7/8" Driving Wrench

**LIS43420** - 2" Driving Wrench

**LIS43380** - 32mm Driving Wrench

**LIS43390** - 36mm Driving Wrench

**LIS43440** - 40mm Driving Wrench

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#### OTC4652

##### Adjustable Fan Clutch Holding Tool

- Adjustable jaws fit various water-pump pulley bolt patterns
- Jaws adjust from 1/2" to 8-5/16" opening
- Jaws lock in place to securely hold water pump bolts
- Long handle offers leverage for extra torque
- Used for fan clutch service



#### OTC6985

##### Mercedes-Benz and BMW Fan Clutch Service Kit

- Mercedes-Benz fan clutch holding wrench holds the water pump pulley to allow release of the fan
- BMW fan clutch holding wrench holds the water pump pulley in place while loosening the radiator fan
- Mercedes-Benz fan clutch wrench removes the thermo-viscous radiator fans found on Mercedes-Benz and Ford vehicles
- Mercedes-Benz fan clutch wrench is used to remove or install the fan clutch assembly
- BMW fan clutch wrench is used to remove and install the thermo-viscous fan on BMW's and Fords (32mm opening)

Serves Mercedes-Benz, Nissan Quest, and Mercury Villager radiator fans and pulley belts. It also can be used for loosening the A/C idler pulley tensioner lock nuts for A/C belt adjustment or replacement. Contains 2.5 mm, 8 mm, and 10 mm Allen keys.



#### OTC4754

##### Universal Cam Crank Fan Clutch Holder Set

- Universal design fits many different size pulleys having slots or holes, such as camshaft pulleys or crankshaft pulleys
- Wrench is adjustable from 1-1/2" to 8-5/8"; four different size step pins are interchangeable
- Long handle enables technician to easily hold the pulley when tightening or loosening retaining bolts

## ENGINE MECHANICAL

### Serpentine Belt Tools



#### SCH10950

##### Honda Serpentine Belt Tensioner Tool

- Fits 2006 and later Civics also most Honda and Acura Serpentine belt tensioner
- 6 point 19mm end won't strip the aluminum hex on the belt tensioner
- 14mm end for extreme tight spaces like 2003 and later Element
- Carefully calculated handle geometry to ease access on and off the tensioner
- All vehicles access from the top, no need to lift vehicle

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#### SCH94170A

##### Serpentine, V-Belt and Timing Belt Installation Assist Tool

- Works with all types of belts
- Made with quality materials for durability, this tool comes in a black finish
- Three pin design for more control of belt installation
- Convenient push pull and twisting control of belt installation
- Also designed to help install V-belts that tend to be placed in areas that are difficult to reach



#### SCH63200

##### Dodge Serpentine Belt Tool

- Designed to reach down through the engine department in areas that are not easily accessible with standard tools or "universal" belt tensioner tools

#### SCH12500

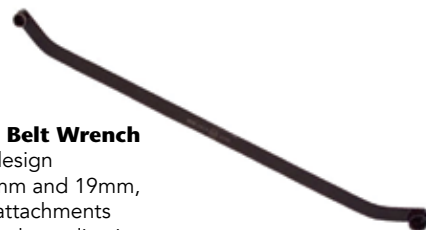
##### T-60 BMW Belt Tensioner Wrench

- Access most BMW T-60 Torx serpentine belt tensioner fasteners
- 2007 to 2013 N54 and N55 engines
- Double ended wrench provides two T-60 bits for different applications
- Extra long wrench improves leverage and accessibility
- Special T-60 Torx tip fits snug in the aluminum tensioner body reducing damage
- Allows access to the tensioner bolts with limited removal of surrounding parts

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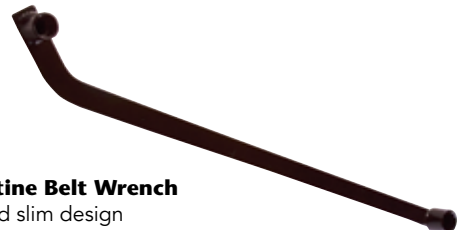
**ASSENMACHER  
SPECIALTY TOOLS**  
ASTTOOL.COM



#### ASSHON1419

##### Honda Serpentine Belt Wrench

- Lightweight, slim design
- Equipped with 14mm and 19mm, 12 point securing attachments
- Works on most Honda applications
- 25" long for leverage • Engagement every 30°
- Ideal for strong tensioners used on 2006 and newer Civics



#### ASSTOY1914

##### Toyota Serpentine Belt Wrench

- Lightweight and slim design
  - Equipped with 14mm and 19mm, 12 point securing attachments
  - Works on most Toyota applications (except Hybrids)
- Applications: 1998-2005 Corolla, 2004 Matrix, 2008 Highlander V6 (Non Hybrid), 2002 RAV4 and 4.7L/5.7L V8 used in Tundra and Sequoia through 2008.

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#### ASSMC-100

##### Mini Cooper Serpentine Belt Tool

- Applicable to "supercharged" mini Coopers
- Used for relieving tension on belt tensioner



## ENGINE MECHANICAL

### Serpentine Belt Tools



#### ASSBMW0062

##### A/C Belt Install Tool for BMW (N62) Engine

- Blue anodized, machined finish
- Comparable to BMW #641040

Used for installing the drive belt that is a stretch belt and no belt tensioner is used. Applicable: [2004-2006] BMW (N62) [V8] engine with the stretch belt. Comparable: BMW #641040 & #83800494518.



#### CTA7852

##### Ford Stretch Belt Tool - 1.5L & 1.6L

- Required for proper installation of the Micro-V Stretch Belt on the A/C and Alternator Drive
- Use to avoid damage to the belt, A/C and Alternator Drive
- Services Ford 1.5L & 1.6L EcoBoost Engine
- Applications: Fiesta, Fiesta (Ikon) & Escape
- Precision made

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#### ASSMC114

##### Mini Cooper Serpentine Belt Wrenches

- Applicable to 2007 and newer Mini Cooper models
- Comes with one large and one small 12 point wrench

If needed, you can use 1/2" drive ratchet to help with indexing the wrench onto the tensioner and for compressing the tensioner back.



#### CTA2744

##### Mini Cooper Supercharged Serpentine Belt Tool

- Extra-long (26" / 66cm) for proper reach
- Special jaws to relieve tension
- Hardened steel construction
- Vinyl grip handle for comfort
- Black finish

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#### ASS3299A

##### Tensioner Release Tool

- Used for removal and replacement of serpentine belt



This tool is applicable to 2002-2005 Audi A4 with 3.0 liter V-6 engines, and 2002-2004 Audi A6 with 3.0 liter V-6 engines.



#### CTA3458

##### BMW A/C Belt Installation Tool

- Used when no belt tensioner is employed on '04 - '06 V8 N62 engines with stretch belts
- Aluminum body • Anodized finish



#### CTA1016

##### Mini Cooper Serpentine Belt Tool Set

- 2 long-handle (22" / 55cm) wrenches to service late model Mini Cooper Serpentine Belts
- Offset working ends with small and large 12 point wrenches
- Black finish w/ vinyl grip
- Thin-wall wrenches for accessibility



#### CTA2767

##### 2 Pin Wrench - Short / Offset

- VW/Audi - Timing Belt Wrench
- Long Wrench • Short Offset
- Works on some TDI engines (Diesel)
- For belt tensioning or adjusting

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## ENGINE MECHANICAL

### Serpentine Belt Tools

#### **GW GEARWRENCH**



##### **KDT3680**

##### **15 Piece Gearwrench Serpentine Belt Tool Kit**

- Access - combination of special sockets and crows feet provides complete vehicle coverage
- Design - specially designed sockets that work with Gearwrench® patented drive system
- Productivity - 5° box end not found on any other belt tool
- Stores in a blow molded case

##### **KDT89000**

##### **15 Piece Serpentine Belt Tool and Locking Flex Head Ratcheting Wrench Tool Kit**

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##### **KDT3414**

##### **Serpentine Belt Tool**

- Provides the required leverage and clearance to release spring pressure and move the tensioner pulley
- Services a variety of vehicles equipped with this style of accessory drive belt
- Handle has a 3/8" drive for other jobs requiring extra leverage
- Replacement parts are available



##### **KDT3684**

##### **Serpentine Belt Grabber Tool**

- Belt Grabber used for installing, routing and removing serpentine belts
- Spring loaded handle that remotely activates belt grabber
- Unique "grabber" feature allows for quick use, saving time

##### **KDT3681**

##### **Serpentine Belt Stretch Tool**

- Finger that rocks stretch belt in place instead of twisting – preventing belt damage
- Anodized aluminum body for corrosion resistance and aesthetics
- Hardened steel pulley pivot for long time use
- Installs all patented Gates stretch belts



#### **K TOOL INTERNATIONAL**



##### **KTI70730**

##### **Stretch Belt Installation Tool**

- Ideal for installing newer, patented Gates Micro-V® Stretch Fit™ belts
- Found on many models of vehicles with drive systems that do not require a tensioner (i.e. power steering, air conditioning, water pumps)
- Avoid potential damage - installs without twisting or breaking internal belt fibers
- Anodized aluminum body for corrosion resistance
- Hardened steel pulley pivot for durability

Durable construction features anodized aluminum body for corrosion resistance and a hardened steel pulley pivot.

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##### **KTI70731**

##### **European Stretch Belt Installation Tool**

- Ideal for installing newer, patented Gates Micro-V® Stretch Fit™ belts
- Found on many models of vehicles with drive systems that do not require a tensioner (i.e. power steering, air conditioning, water pumps)
- Avoid potential damage - installs without twisting or breaking internal belt fibers
- For use on vehicles with larger pulleys primarily found on European vehicles
- Lifetime warranty

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##### **KTIDAY70730**

##### **Stretch Belt Installation Tool**

- Universal tool prevents twisting or breaking of internal belt fibers during installation
- Ideal for installing newer, patented Gates Micro-V Stretch Fit™ belts
- Found on many models with drive systems that do not require a tensioner (power steering, air conditioning, water pumps)
- Constructed of anodized aluminum for corrosion resistance

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## ENGINE MECHANICAL

### Serpentine Belt Tools



#### KT170720

##### Serpentine Belt Tool

- Releases tension on serpentine belts with a spring loaded idler pulley
- Used to remove and install serpentine belts
- Fits idler pulleys requiring 13mm, 15mm, 16mm and 18mm hex or 3/8" square drive socket sizes

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#### LIS59000

##### Ratcheting Serpentine Belt Tool

- Sockets are low profile to fit hard to reach areas
- Ratcheting head has a freewheel position that allows maximum leverage
- Comes with extension for hard-to-reach idler pulleys
- Used to remove and install belts on serpentine belt systems
- Spring loaded for a great performance
- Includes a 19mm socket for Honda and Toyota applications

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#### LIS59800

##### Serpentine Belt Tool

- Releases tension on serpentine belts with a spring loaded idler pulley
- For applications with limited access, 13mm and 16mm sockets are built into the handle
- Comes with extension for hard-to-reach idler pulleys
- Includes 9mm socket for Honda and Toyota applications

Fits idler pulleys requiring 13mm, 14mm, 15mm, 16mm, 18mm, 19mm hex and both 3/8" and 1/2" square drive sizes.

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#### KAS5333

##### 9 Piece Fine Tooth Serpentine Belt Wrench Set

- Used to service automotive serpentine belts equipped with spring loaded tensioners, without having to remove other components
- Multiple size adapters allow service to most automotive serpentine belt applications
- Fine ratcheting action and low profile enables work in restricted areas
- 7/8" wrench configuration allows for quick and easy change of adapters
- Heat treated and chrome plated for strength and durability

Set includes: 6 point 3/8" square drive 13mm (1/2"); 1/2" square drive 14mm (9/16"), 15mm, 16mm (5/8"), 18mm, 19mm (3/4").

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#### KAS5344

##### 3 Piece Universal Ratcheting Serpentine Belt Wrench Set

- Designed to release the tension on spring-loaded idler pulleys
- Allow direct access to the tensioner without having to remove engine accessories or frame components
- Ratcheting wheel allows quick and easy positioning of the wrench driving end to allow the user to access the tensioner from any angle
- This can be done by rotating the drive end on the wrench to match the position of the serpentine belt tensioner

Slim head design allows access to tight areas found in the tensioner area on some front wheel drive vehicles. Sizes: 13mm or 1/2" hex, 14mm hex, 15mm hex, 16mm or 5/8" hex, 17mm hex, 18mm hex, 19mm or 3/4" hex, 3/8" square, 1/2" square, 3/4" square.

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#### KAS8584

##### 2 Piece Ratcheting Serpentine Belt Wrench Set

- Sizes: 13mm or 1/2", 14mm, 15mm, 16mm or 5/8", 18mm hex, 3/8" and 1/2" square drive

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## ENGINE MECHANICAL

### Serpentine Belt Tools



#### KAS5331

##### Ecotec Serpentine Belt Tensioner Tool

- Belt service on Ecotec 2.2 and 2.5L GM engines
- Allows service without removal of motor mount and lower air filter housing
- Allows access from top of engine compartment
- Double square drive that improves flexibility
- Low profile

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#### OTC7654A

##### Serpentine Belt Installation Tool

- With this tool and the correct serpentine belt tool for the job, installing those almost impossible serpentine belts is a lot less frustrating and time-consuming
- The two-pin hook end holds the belt for precise placement, and the handle gives you the grip you need to maneuver it around the pulleys easier
- A handy tool to have around for installing V-belts and timing belts that are never in easy to reach places
- 25" long

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#### OTC4645

##### Serpentine Belt Tool

- Fits tensioner pulleys with 13mm - 16mm, 18mm hex or 3/8" and 1/2" square drives
- For hard to access tensioners; there are 13mm and 15mm, 12 point wrenches built into the handle
- 13mm, 14mm and 15mm crowfoot wrenches also included



#### OTC6673

##### Universal Belt Tension Gauge

- Belt tension gauges are used to properly check drive belt tension on drive belts to ensure maximum belt and bearing life
- Scale reads 30-180 in./lbs



#### OTC4748

##### Belt Tension Gauge

- This easy to use and read tool allows for accurate belt tension to be set after belt replacement, adjustment, or wheel service
- Use on secondary drive belts with a 10 lb. spec.
- Use after belt replacement adjustment or wheel service



#### PBT70990

##### Stretch Fit Belt Tool Kit

- Universal installation and removal of all stretch fit belts
- Easily installs all stretch fit belts; no adjustments required
- Allows removal and reuse of stretch fit belts
- Instructional DVD and storage tray included



#### WLMW84010

##### Serpentine Belt Tool

- Releases tension on serpentine belts with spring loaded idler pulleys
- Fits idler pulleys requiring 15mm, 16mm, 18mm hex or 3/8 or 1/2" square drive
- Also included 13mm, 14mm and 15mm crowfoot wrenches
- Lifetime Limited Warranty

## ENGINE MECHANICAL

### Timing & Camshaft Tools



**SCH65510**  
**Toyota / Lexus V6 Cam Seal Removal and Installation Tool**

- Efficiently removes and installs most Toyota and Lexus V6 cam seals in car
- Remove old seal using a special seal removal tool, not a pick
- Press in new seal using a precision seal driver virtually eliminates seal damage
- All components are made of steel for durability and performance

Works on: Toyota 1996 & later 3.0L & 3.3L V6  
Lexus 1990 and later 3.0L V6 and 3.3L V6



**SCH96800**  
**Universal Camshaft Pulley Holding Tool**

- For use on Nissans, Toyotas and other OHC engines
- 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 IMZFE 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.



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**ASB400**  
**Camshaft Alignment Tool**

- Fits over square on back of camshafts
- For setting camshaft timing

Includes 2 blocks, swivel lock and locking pin. Applicable for M42, M44, M50, M52, M52TU, M54, M56, S50US and S52US engines.



**SCH63800**  
**Cam Seal Installer with 10 and 12mm X 12.5 Threaded Cam Bolts**

- This tool is designed to easily install the cam seals in 4 and 6 cylinder engines for Mazda, Nissan and Toyota/ Lexus engines that have 10 and 12mm 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
- Simply 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 comes in black finish

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**ASSFM2330**  
**3 Piece Mazda/Ford 2.3L Timing Set**

- Applicable to both 2.3L and 2.3L Turbo engines
- Includes Crank Locking Pin
- Includes cam locking plate for 2.3L Turbo engines
- Includes cam locking plate for 2.3L NON turbo engines
- 2004-Newer
- Comparable to factory tool numbers 303-507 (Crank pin), 303-465 (Cam bar) and 303-1061 (Turbo Cam Plate)

Applicable to:  
Mazda: 3 (2004-2009), 5 (2006-2010), 6 (2003-2008), Mazdaspeed 3 (2007-2012), Mazdaspeed 6 (2006-2007) and CX-7 (2007-2012).  
Ford: Escape (2005-2008), Focus (2003-2007) and Fusion (2006-2009)

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**ASSF1248**  
**Ford Camshaft Timing Locking Plates**

- Comparable to Ford tool #303-1248
- Comparable to Ford tool #303-1530
- Camshaft Holding Fixtures
- Chain tensioner pin
- Applicable to Ford/Lincoln models with 3.5L, 3.5L Eco-boost and 3.7L [2007-newer].

## ENGINE MECHANICAL

### Timing & Camshaft Tools



#### ASS3391

##### Camshaft Alignment Tool

- Used for camshaft alignment
- Applicable to VW and Audi
- Use in conjunction with ASS3242

Used to hold both camshafts in T.D.C. position.

#### ASST40030

##### Camshaft Alignment Fixture

- Used to hold and align the camshafts
- Applicable to Audi 3.0L V6 5V, used in 2002-2005 Audi A4 and 2002-2004 Audi A6



#### ASST4306

##### Audi 3.0L Timing Tool Set

- 3 Piece locking pin set used to lock the timing belt tensioner while relieving pressure from the belt
- Used to lock the crankshaft at TDC position when replacing the timing belt
- Used to adjust variable valve timing on the exhaust side camshaft to basic position
- Used to hold and align the camshafts

Applicable: Audi 3.0L V6 5V, used in 2002-2005 Audi A4 and 2002-2004 Audi A6.



#### ASSFM2300

##### Mazda/Ford 2.3L Timing Belt Tool Set

- Applicable to 2.3L Non-Turbo engines
- Comparable to factory tool number 303-507 (Crank pin)
- Comparable to factory tool number 303-465 (Cam bar)

Applicable to Mazda 3 (2004-2009), 5 (2006-2010) and 6 (2003-2008), Escape (2005-2008), Focus (2003-2007) and Fusion (2006-2009).



#### ASSF20T

##### FORD 2.0L EcoBoost Timing Set

- Timing set for [2012-newer] Ford models with 2.0L turbo EcoBoost engine
- Set includes the T.D.C. crank timing pin, cam locking plate and the crank position sensor (CPS) alignment block

#### ASSJLR5008

##### Land Rover/Jaguar 5.0L V8 Timing Set

- Engine timing tool set for 5.0L [V8] engines found in [2010-newer] Jaguar and Land Rover models
- Comparable to 303-1447
- 303-1452
- 303-1445
- 303-1483
- 303-1448 and JLR-303-1303



#### ASSVW20T

##### VW/Audi 2.0L Turbo Timing Set

- Applicable: [2009-newer] Volkswagen and Audi models with 1.8L Turbo and 2.0L turbo engines
- Set includes: ASS6700-3 (Lock Pin), ASST10355 (Crank Counter Hold Tool), ASST10368 (Crankshaft Slide Pieces), ASST40196 (Drift for Camshaft Slide Pieces), ASST40267 (Locking Clips), ASST40271 (Camshaft Holders) and ASSVW10352 (Assembly Tool)



#### CTA2880

##### Ford / Mazda Camshaft Timing Kit

- Setting gauge is precision cut for proper alignment
- Includes 3 locking pins for wider applications
- All steel construction
- Pins are black finish
- Setting gauge has nickel finish

## ENGINE MECHANICAL

### Timing & Camshaft Tools



#### CTA4333

##### Adjustable Universal Cam Pulley Holding Tool

- Designed to hold the camshaft
- Grooved pins hold the camshaft pulley stationary while loosening and tightening the center shaft bolt
- Applications: Mercedes, BMW, Ford, Honda, Audi, Volkswagen, Nissan, Volvo, Mitsubishi, Toyota, Chrysler and more
- Especially useful for transverse mounted V6 engines, including: VG30 (Nissan Maxima) & the 3VZFE and 1MZFE (Toyota Camry).
- Adjustable distance: 21mm-100mm



#### CTA7641

##### Ford Cam Holding Tool Set

- Includes camshaft holding fixtures and chain tensioner hold down tool.
- Services Ford Edge, Explorer, F150, Flex, Fusion, Mustang, Police Interceptor & Taurus, Lincoln MKS, MKT, MKZ & Navigator and Mazda CX9
- Comparable to Ford Factory Tools #303-1248 & 303-1530

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#### CTA7640

##### 2 Piece Ford Camshaft Tool Set

- One tool locks camshaft and the other locks the timing chain
- Services Ford 4.6L, 5.4L & 6.8L 3V engines
- Comparable to Ford Factory Tools #567614 & 567617



#### CTA2221

##### Master Ford Timing Kit

- Used for performing timing services on some Ford models from mid-90's through most current models
- Applications: Ford 1.4L, 1.5L, 1.6L, 2.0L, 2.3L & 2.5L EcoBoost, Duratec(Flex Fuel) & GTDI engines
- Service Ford, Lincoln, Mazda & Land Rover models
- Included CTA tools: #1025, #1026, #1090, #1804, #1806, #2880 & #2884
- Packed in a blow molded case for easy storage



#### CTA7677

##### 3 Piece GM Cam Holder Set

- Services the left & right head for 2006+ 3.6L & 2.8L V6 GM engines
- Metal construction
- Prevents rotation during timing chain service

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#### LIS41340

##### 21mm Double Offset Caster Wrench

- The 14-1/2" 21mm wrench can be used from bottom side of vehicle to move hard-to-reach and often rusty OEM cams on 2007 and newer GM trucks with coil spring front suspensions
- Kit includes a cam adjusting holding tool to adjust the upper control arm cams
- The 14-1/2" 21mm wrench can be conveniently used from the bottom side of the vehicle instead of reaching through the wheel well, saving time
- Applications: Chevy, GMC and Cadillac pickups and SUVs



#### LIS37410

##### Camshaft Alignment Kit

- For servicing the timing belt, chains, head gaskets, or other valve train repairs on Ford, Mercury and Mazda Vehicles

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The kit comes with an aluminum camshaft bar, plus one short top dead center (TDC) timing pin and one long TDC timing pin. The camshaft bar and long TDC timing pin are used on 2.0L DOHC Zetec engines found in 1994-2003 Ford and Mercury vehicles. The camshaft bar and short TDC timing pin are used on 2004-2012 2.5L DOHC, 2.3L DOHC 4V and 2.0L DOHC engines that are found in Ford, Mercury and Mazda vehicles. The camshaft alignment bar can also be used by itself on 2.0L DOHC engines in 1993-1994 Ford Probe.

## ENGINE MECHANICAL

### Timing & Camshaft Tools



#### LIS59370 Stretch Belt Remover/Installer

- Combination removal and installation tool for most stretch belt applications found on many accessory drive systems
- Unique magnetic faces hold the tool in place on the pulley
- Helps prevent damage to belt or pulley during removal or installation
- Compact, one-piece tool can be used on the front or back side of the pulley



#### LIS18000 Universal Camshaft Bearing Tool

- This tool has two sets of rubber sleeves supplied with it for each expanding driver
- Range of 1.1 25" to 2.69" (28.58 - 68.3mm)
- Very easy on the bearings
- The expander has a neoprene sleeve

This tool drives camshaft bearings smoothly. Now, one complete low cost set that will remove or insert camshaft bearings in nearly all engines from compact cars to heavy trucks. Range of 1.1 25" to 2.69" (28.58 - 68.3mm). Easy on bearings. The expander has a neoprene sleeve over which the split driving plugs are mounted and expanded to size.

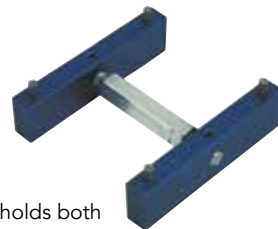
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#### LIS38220 Universal Cam Adjuster

- This adjustable tool is designed to both hold and turn cam sprockets
- It's needed to turn the cam sprockets to adjust the cam position
- It can also be used to hold the cam sprocket in place when removing the cam bolt
- Works on all single and dual overhead cam sprockets with holes

Universal Cam Adjuster adjusts to fit different sized cam sprockets. Built with the strength and durability to last



#### LIS36880 Dual Overhead Cam Lock Tool

- This versatile tool easily locks and holds both camshaft sprockets firmly in place
- Unique design uses knurled pins to hold against the inside of the cam sprockets
- The two parallel bars float which allows the knurled pins to align with the sprockets
- Preserves the engine timing during belt or chain replacement

Dual Overhead Cam Lock Tool locks Camshaft sprockets in place during belt or chain replacement.

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#### OTC6486A 3 Piece Ford 2.0L, 2.3L, 2.5L 4V Cam Tool Set

- Ford 2.0L 4V L4 engines used in 94-12 multiple vehicle platforms
- Ford 2.3L 4V L4 engines used in 05-08 Escape Hybrid, Mariner Hybrid
- Ford 2.5L 4V L4 engines used in 09-12 Escape & Mariner, 10-12 Fusion & Fusion Hybrid, 11-12 MKZ
- OTC Lifetime Warranty



#### OTC6487 Ford Cam Tool Kit

- Ensures correct cam timing when servicing timing belts, chains, head gaskets, or other valve train repairs
  - Ford cam tool kit for 1992 thru 2004 4.6L, 5.4L V8, and 6.8L V10 engines
- Kit includes: OTC6476, OTC6477, OTC6009 and OTC6020 packaged in a molded storage case.

## ENGINE MECHANICAL

### Timing & Camshaft Tools

# OTC



#### OTC6489

#### Ford Camshaft Master Kit

- Allows servicing on multiple Ford Motors
- Cam holding tools
- Weight: 12 lbs. 5 oz

This Ford master cam tool kit contains all 22 cam tools covering 1992 thru 2004 for over 50 applications, in a blow molded case.

# OTC



#### OTC6688

#### GM In-line 6 or V6 Cam Tool Set

- Designed to remove aluminum arm from steel stud, which often galvanizes and locks arm and stud together
- Investment cast design is strong, easier to use, saves time
- Live center end allows for more precise alignment? saves labor
- Works on these and many other vehicles: Jeep Liberty, Grand Cherokee, Dodge Caravan, Stratus, Ram Diesels, Dakota & PT Cruiser, Chrysler LHS, Town & Country, Saturn Vue, Buick Rendezvous, Cadillac CTS, Ford Focus, Ford Windstar, Honda Civic, Odyssey and Toyota Camry



#### OTC6498

#### Ford 4.6L 5.4L 6.8L 32V Valve Cam Timing Kit

- The OTC Ford cam tools ensure correct cam timing when servicing timing belts, chains, head gaskets, or other valve train repairs
- Saves time; all tools required for camshaft timing are in one kit

Kit includes: Camshaft positioning tool, camshaft holding tool, crankshaft positioning tool, secondary chain tensioner tool.

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#### OTC6687

#### GM 6 Cylinder Cam Tool Set

- Required tools to adjust and hold cam shaft timing on GM 3.0 and 3.2 V-6 engines
- Kit is designed to save shop time when servicing GM 3.0 and 3.2 V-6 engines



#### OTC6689

#### Chrysler/Jeep Cam Tool Set

- These timing tools are provided to ensure correct cam timing when servicing timing belt, chains, head gaskets, or performing other valve train repairs
- 15 tools are based on OE design
- Required tools to service camshaft timing on 1981-2006 Chrysler/Jeep vehicles
- Tools are organized in a blow molded case

## ENGINE MECHANICAL

### Timing & Camshaft Tools

# OTC



#### OTC6488 Ford Cam Tool Kit

- The OTC Ford cam tools ensure correct cam timing when servicing timing belts, chains, head gaskets, or other valve train repairs
- Ford cam tool kit for 1997 thru 2004 4.0L Explorer/Mountaineer SOHC V6 engines

Contains tools OTC6478, OTC6479, OTC6480, OTC6481, OTC6482, OTC6484, OTC6485 packaged in a molded storage case.

#### OTC6020 Ford Cam Positioning / Holding Tool

- For use with OTC6009
- 2 per pack



#### OTC6690-1 18 Piece Ford Cam Tool Kit Update with Case

- The Ford Cam Tool Kit Update contains 18 tools, with case locations for addition of the popular 6489 Ford Cam Tools, making a 6690 Kit
- Ford Cam Tools ensure correct cam timing when servicing timing belts, chains, head gaskets, or other valve train repairs
- 6690-1 tools cover L4, V6, V8, V10 engines with 3V & 4V valve configurations, model years 2004 - present
- Includes application guide with diagrams
- Lifetime Warranty

# OTC



#### OTC7196 Crank and Cam Seal Service Kit

- Removes and installs camshaft and crankshaft seals on cars and truck/van/SUVs without damage
- Includes a puller coupled with specialized puller legs that hook the seal for quick and easy removal
- The interchangeable seal install adapters are designed for use with the cam or crank bolt
- Kit services seal sizes of 21.5 mm to 64 mm

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#### OTC6682 3 Piece Ford 3.5L & 3.7L 4V Cam Tool Set

- Ford 3.5L 4V V6 engines used in 07-12 Edge and MKZ; 07-09 MKX; 08-12 Taurus, Taurus X, and Sable; 10-12 Fusion; 10-12 MKZ, MKS, and MKT; 11-12 Explorer and F150
- Ford 3.7L 4V V6 engines used in 09-12 MKS; 10-12 MKT; 11-12 Mustang, F150, MKZ, and Edge
- Ford Cam Tools ensure correct cam timing when servicing timing belts, chains, head gaskets, or other valve train repairs.
- OTC Limited Lifetime Warranty



#### OTC6683 Ford 1.6L 4V Cam Tool Set

- Works on Ford 1.6L 4V L4 engines used in 11-12 Fiesta
- Ford Cam Tools ensure correct cam timing when servicing timing belts, chains, head gaskets, or other valve train repairs
- Get this tool for individual use on 1.6L or look at Master Kit part #6690 for all Ford engines
- OTC Limited Lifetime Warranty

## ENGINE MECHANICAL

### Timing & Camshaft Tools



#### PBT70960 Crankshaft and Camshaft Seal Tool Kit

- Easily remove and install crankshaft and camshaft seals without damage
- Compact puller with unique extracting hooks engage seal for quick removal
- Interchangeable sleeves and mandrels allow easy installation of new seal
- Suits seal sizes 21.5mm - 64mm
- Reduces service times and ensures no reworks due to damaged seals or housings

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#### PBT70907 Timing Gear Holder Kit

- Securely holds the timing gear during removal or installation
- Prevents timing gear movement while the retaining bolt is removed
- Allows rotation of cam gear to align valve timing marks
- Single CamClamps lock each gear individually during timing belt replacement
- Holds valve timing during belt replacement
- Complete timing belt service kit includes (1) Timing Gear Holder, (4) CamClamp Singles, and blow molded case

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#### PBT70866 1/2" Power Bar

- Reduces service time on vehicle with limited crankshaft bolt access
- Ideal for crankshaft bolt removal on Japanese OE vehicles – Honda, Subaru, Toyota, and Nissan
- Generates up to 600 ft.-lbs. of force which exceeds most 1/2" impact guns
- Bidirectional force loosens or tightens bolts
- Saves repair time – no need to remove parts to access the crankshaft bolt or harmonic balancer pulley

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**ASSENMACHER  
SPECIALTY TOOLS**  
ASTTOOL.COM



#### ASS6800TDI TDI Timing Belt Tool Set

- Used for locking the camshaft, crankshaft and diesel pump while setting the Timing Belt
- Applicable to: 1999-2008 VW TDI and Pumps Duse Engines
- Includes cam lock bar
- Both 2 pin spanner wrenches included
- Also includes both styles of crankshaft stops



#### ASSBMW3028 BMW Timing Set for N52/N54 Engines

- Covers 2006 and Newer 1, 3 and 5 Series Models
- 3.0L (Non-Turbo) • 3.0L Twin Turbo engines

## ENGINE MECHANICAL

### Timing & Camshaft Tools



**ASSENMACHER  
SPECIALTY TOOLS**  
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**ASS3428  
TDI Cam Lock Bar**

- Used for locking the camshaft on the 1999-2003 VW TDI without removing the valve cover
- Used in conjunction with the #3359



**ASS3359  
TDI Lock Pin**

- Injector pump locking pin for VW
- Locks cam on 1.9L (BRM engine code) diesel
- Used for 1999-2006 VW TDI engines. Used in conjunction with #3428 and/or #T10050 or #T10100 depending on model year of TDI and pulleys.



**IPA7891  
Engine Calibration and Setup Kit**

- Help eliminate mistakes when setting up mechanical engine timing sequences, chains and belts, balance shafts and belts, and distributor installations as well as when performing general engine setup procedures

Kit includes: standard 6.25" (14mm) and extended 10.75" (14mm) TDC Indicators, compression gauge extension, Compression Whistle Alert™ (rigid and flex), crank stopper, 18mm and 12mm spark plug hole adapters, extra nipple for compression tube to whistle conversion.

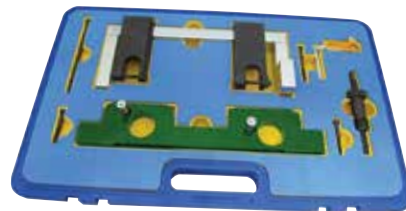
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**OTC6479  
Ford Crank Holding Tool**



**OTC6475  
Ford Crank Timing Peg**



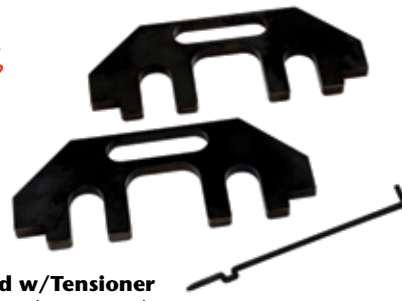
**CTA7675  
8 Piece BMW N20/N26 Timing Tool Kit**

- Aligns camshaft timing at TDC position on N20/N26 engines
- Comparable to BMW Factory tools #83302212831, 83302212830, 83302219548, 1197340
- Packed in blow mold case
- Precision made



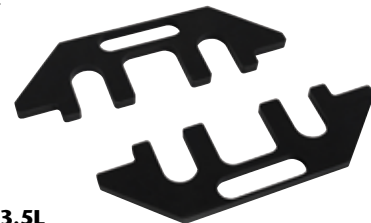
**CTA1046  
GM Timing Tool Kit - 1.4L**

- 1.4L Ecotec Timing tool kit is used to set the timing
- For 2011 & up GM models with the 1.4L Ecotec engine
- Packed in a Blow Mold Case
- Compare to factory tools No. EN-49977-100, EN-49977-200, EN-49978, KM-952, KM-953-A & KM-955
- Applications: Chevy Cruz, Sonic & Trax



**LIS37200  
Timing Tool for Ford w/Tensioner**

- For use when servicing the timing chain on Ford V6 3.5L and 3.7L engines
- Helps ensure camshaft alignment during removal and installation of the timing chain
- Includes holding tool for secondary chain tensioner
- Applications: 3.5L - 2007 to 2016, Non-Turbo 2017. 3.7L - 2009 and newer



**LIS37350  
Timing Tool for Ford, 3.5L**

- For use when servicing the timing chain on 2017 and newer Ford V6 3.5L Turbo Engines
- The size is slightly larger than the 37100 / 37200

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## ENGINE MECHANICAL

### Harmonic Balance Tools



**SCH64900A**  
**GM/Chrysler Harmonic Damper Pulley Puller**

- Spring loaded legs for leg position retention
- Gives greater ease and control when installing the puller in confined areas
- Remove the harmonic damper pulley found on many Chrysler and GM engines
- Eliminates the time consuming process of removing the radiator or other components on Autos, Pickups, SUV's and vans
- For ease in identification, the new legs are sliver in color



**SCH13450**  
**Dodge 5.7L V8 & 3.5L V6 Harmonic Balancer Puller**

- Remove harmonic balancers on Dodge 5.7L V8 and 3.5L V6 with narrow puller access windows
- Thin puller jaws fit through the narrow access windows
- Wide puller jaws properly contact the pulley puller pads
- Puller geometry increases the jaw bight as the pressure screw is tightened
- Four pressure screw rods are provided to adapt to different applications



**SCH13350**  
**GM V-6 Harmonic Balancer Puller Kit**

- Remove Harmonic Balancer on 3.6L Chevrolet Camaro
- Specially designed jaw tips fit small puller pockets found on the back of the pulley
- Compact design
- Includes 4 pressure bolt push rods
- Puller geometry increases jaw bight as puller is tightened

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**SCH64300**  
**Lexus and Toyota Harmonic Damper Pulley Holding Tool**

- Developed to aid in the removal and installation of the crank bolt on Lexus and Toyota engines
- 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 1996 and later: 3.0 V6, 3.3 V6, 4.0 V6, 4.7 V8. also 4 cylinder 1983-1995 22RE, 1995-2004 2RZ & 1995-2004 3RZ

**SCH60100A**  
**Honda and Acura Offset Harmonic Damper Pulley Holding Tool**



- Developed to aid in the removal and installation of the crank bolt on most Honda and Acura engines
- New design with 50 mm hex fits most harmonic damper pulleys
- Large opening for ratchet and socket insertion
- 1/2" square drive use with breaker bar



**AST7874**  
**Pulley Puller and Installer Kit**

- Removes pressed on alternator and power steering pulleys on late model GM, Ford and Chrysler engines
- Installs late model GM alternators and power steering pulleys including Quad 4

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**AST7846**  
**Harmonic Balancer Puller Set**

- Heavy duty 4-way slotted yoke
- 3 hardened forcing screws 3-3/4" and 6-1/2" long
- Includes 11 sets of washer head bolts:
  - 2 - 1/4"-28 UNF x 3", 3 - 5/16"-18 UNC x 2",
  - 3 - 5/16"-18 UNC x 4-1/2", 2 - 5/16"-24 UNF x 3-1/2", 3 - 3/8"-16 UNC x 4",
  - 3 - 3/8"-24 UNF x 2", 3 - 3/8"-16 UNF x 2", 3 - 8mm x 1.25 x 80mm,
  - 3 - 8mm x 1.25 x 40mm, 2 - 8mm x 1.25 x 65mm and 3 - 10mm x 1.50 x 50mm.

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## ENGINE MECHANICAL

### Harmonic Balance Tools



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#### PowerSocket

A revolutionary solution to bust through the most stubborn bolts. The patent-pending power ring design provides up to 50% more torque with your Ingersoll Rand 1/2" impact wrench to get REAL WORK done and eliminates the need for additional tools.

- A unique, patent pending solution for busting stubborn or rusted bolts
- Increase the torque of your impact wrench by 50%
- Uses a dual-mass spring oscillator to improve the transmission of torque from the tools
- Provides the ability to use a 1/2" impact in applications where they previously needed a 3/4"

**IRTS64M17L-PS1** - 17mm    **IRTS64M19L-PS1** - 19mm  
**IRTS64M21L-PS1** - 21mm    **IRTS64M26L-PS1** - 26mm  
**IRTS64M27L-PS1** - 27mm



#### KT170343

##### Harmonic Balancer Installer

- Easily installs balancers and drive pulleys that are pressed on the crankshaft
- Includes eight threaded adapters: 7/16"-20; 1/2"-20; 9/16"-20; 5/8"-20; 3/4"-16; M12-1.5; M14-1.5; and M16-2.0
- Comes in a blow molded case

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#### KT170344

##### Harmonic Balancer Puller

- Tool will pull harmonic balancers on most automobiles: large and small, import and domestic
- Pull parts with tapped holes, such as flywheels, gears and pulleys
- Tool includes 5 sets of side bolts

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#### KDT36790

##### Harmonic Balancer Installer

- Installs drive pulleys on Harmonic Balancers
- Includes complete range of adapters and thrust bearing for ease of use

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#### KDT2286

##### Harmonic Balancer Puller

- Removes balancers, pulleys, and gears with tapped holes
- Floating swivel prevents damage to the shaft end
- Four slots in yoke allow for two or three hole applications
- Bolt tool to balancer with center screw on end of crankshaft. Tighten while tapping on screw head to remove balancer
- Includes: 3/8"-24 UNF, 5/16"-18 UNC, 3/8"-16 UNC and 10mm screws for most American and imported cars



#### LIS45300

##### GM Harmonic Balancer Installer Puller

- For GM 3300 and 3800 V6 cylinder engines.

Includes:

- 45300 harmonic balancer puller for GM
- 45310 shoulder bolt
- 45320 adapter
- 45510 body
- 45530 puller screw

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#### LIS51450

##### Harmonic Damper Pulley Puller

- Low profile design works in confined spaces eliminating the need to remove the radiator
- Works on Chrysler, GM, Mitsubishi, and Dodge
- Improved design to fit more applications. There is now a fourth rod and the jaws have been beefed up to fit Trailblazer, Envoy, Bravada / Colorado, Canyon and other 4.2L applications. Supersedes the 49500.

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## ENGINE MECHANICAL

### Harmonic Balance Tools



#### LIS54810 Harmonic Balancer Puller Set

- Removes most automotive harmonic balancers
- The kit includes a standard harmonic balancer puller, pulling screws, adapters for 3300 and 3800 GM V6 engines, and a Harmonic Damper Pulley Puller for Chrysler, GM, Mitsubishi, & Dodge
- Includes new interchangeable puller jaws for 3.6L V6 Chevrolet Camaro and Dodge 5.7L Hemi

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#### LIS45500 Harmonic Balancer Puller

- Designed to ease the operation of pulling the balancer pulley
- It reduces damage to both the pulley and the shaft
- Pulls steering wheels from the column



#### LIS54870 Harmonic Balancer Puller 3 Jaw Set, Hemi

- Harmonic Balancer Puller 3 Jaw Set, Hemi
- Includes new interchangeable puller jaws for Dodge 5.7L Hemi
- Made in the USA • Lifetime warranty

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#### LIS51700 Harmonic Balancer Puller Set

- This kit features the puller hardware and special pulling screws to remove most automotive harmonic balancers
- Updated jaw design on Damper Puller provides even greater strength
- Clevis pins allow jaws to be quickly removed and replaced
- For Chrysler, GM, Mitsubishi and Dodge

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#### LIS77070 24mm harmonic balancer socket

- Heavy-duty impact socket
- Increased mass directs more energy to removing stubborn bolts
- Can be used on GM LS engines that use a 24mm hex pulley damper bolt or other 24mm applications
- Heat-treated, impact-quality alloy steel
- 1/2" drive

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#### LIS77080 19mm Harmonic Balancer Socket

- This Heavy-Duty Impact Socket is designed with more than three times the standard socket mass to direct more energy to removing the bolt
- Can be used on Honda engines that use a 19mm hex pulley damper bolt or other 19mm applications
- Made with heat-treated, impact quality alloy steel
- Use with 1/2" drive

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



## ENGINE MECHANICAL

### Harmonic Balance Tools

# OTC



#### OTC4531 Harmonic Balancer Puller/Installer Set

- For easy removal of most harmonic balancers and drive pulleys which are pressed fitted onto the crank shaft
- A bearing-centered circular 2/3-way and an assortment of metric and fractional bolts and adapters provide wide coverage
- A heavy duty, 3/4" diameter forcing screw is internally threaded to fit the eight adapters to install harmonic balancers
- A blow molded plastic storage case keeps set contents organized and protected from loss

Adapter sizes included: M16 x 2.0, M14 x 1.5, M12 x 1.5, 1/2"-20, 7/16"-20, 3/4"-16, 5/8"-18 and 9/16"-18.



#### OTC6667 GM/Chrysler/Mitsubishi Harmonic Damper Pulley Puller

- Easily removes damper pulleys
- Fits into tight engine compartments, no need to remove radiator
- 3/8" drive for use with ratchet
- 3/4" drive for wrench or socket use

Kit contains the 3-jaw puller, four lengths of forcing rods, and a forcing screw with a 3/8" square drive for ratchet use, and a 3/4" hex for wrench or socket use. Replacement rods: No. 537757-4 – 5/16" x 4", No. 537757-5 – 5/16" x 5-13/32", No. 537757-6 – 5/16" x 6-1/2", No. 537757-7 – 5/16" x 7.13/32", No. 537757-4 – 5/16" x 4".

# OTC



#### OTC6505 Master Harmonic Balancer Installer

- 11 special adapters make this a complete master harmonic balancer installer set for most car and light truck applications
- The heavy duty 7/8" diameter forcing screw has internal threads to fit in the threaded adapters
- Plastic storage tray keeps set components organized for easy selection



#### OTC518 Harmonic Balancer Puller

- Pulls harmonic balancers, timing gears, & parts having two or three tapped holes
- Slotted holes in puller body permit cap screws to be positioned to handle bolt circle diameters from 1 1/2" to 4 5/8"
- Includes three cap screws 3/8"-24 x 3" long, & three cap screws 3/8"-16 x 3" long
- Same as Ford No. D93L-518-A

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#### OTC7793 Master Bolt Grip Kit

- Multi-Purpose applications such as steering wheels, flywheels, harmonic balancers, pulleys and gears with tapped holes
- Includes special stepped bolts for 1990 and newer GM 3300-3800 V6 crankshaft pulleys
- 4-way slotted puller yoke and 2 lengths of hardened "live-center" forcing screws
- A set of 3 interchangeable forcing screw tips is included to optimize pressure and prevent "walking"

Three each of the following bolt sizes:

M8 x 1.25 x 90mm	M8 x 1.25 x 45mm
1/4-28 UNF x 3"	M8 x 1.25 x 65mm
5/16-24 UNF x 3"	5/16-18 UNC x 3.5"
3/8-24 UNF x 1.5"	3/8-16 UNC x 2"
3/8-16 UNC x 3"	3/8-16 UNC x 4.5"
M10 x 1.5 x 35mm	Special Stepped Bolts – 1990 and Newer

## ENGINE MECHANICAL

### Valve Tools



#### SCH91400B Universal OHC Valve Spring Compressor

- Access to valves in areas that are not in open areas with engine in vehicle
- Valve springs can be depressed "remotely", depressor bar and compression tube are separate
- No need to remove engine due to confined areas saving time
- No other valve spring compressor is as universal and adjustable, depressor tube slides easily to each valve location without changing settings

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#### SCH88250 Toyota/Lexus Valve Adjusting Tools

- Designed to allow for easy valve adjustment on most Toyota's overhead camshaft engines using spacer shims for valve adjustment
- Made from quality heat treated alloy steel, this tool comes as a set with pliers and spacer wedge

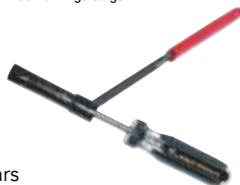
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#### SCH88800 12mm Universal Valve Adjustment Tool

- Designed for a wide variety of cars with 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

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#### SCH88950 10mm Jam Nut Valve Adjustment Tool

- Designed for a wide variety of cars with 10mm 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



#### SCH92350 Narrow Access Valve Stem Seal Removal Pliers

- Developed to remove the valve stem seals which are used on most overhead camshaft engines
- Includes 4 valve per cylinder engines that have very narrow access to the valve stem seal due to the design of the heads



#### CAL39300 Ford Triton 3 Valve Insert Kit

- Tool repairs Ford 3 valve engines where plug has either blown out or threads are too badly damaged to hold a spark plug
- Includes quantity of (8) M16x1.5 Inserts

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#### CTA2112 Valve Spring Compressor Kit

- Applications include BMW, VW, Hyundai, Toyota, Ford, Renault, Opel, Seat and Clio
- No need to remove cylinder head
- Replaces valves springs and valve stem oil seals

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## ENGINE MECHANICAL

### Valve Tools



#### CTA1092

##### Ford Valve Spring Compressor

- Compresses valve springs without having to remove the head.
- Forged construction with 3/8" square drive and built-in jaws
- Services 1991 & up Ford 4.6L, 2-valve, V8 engines
- Black finish
- Forged construction



#### CTA7637

##### Chrysler Rocker Arm R/I

- Services 1999-2013 Jeep, Dodge, Chrysler
- With 3.7L & 4.7L engines including DR, DS, HB, HG, KA, KJ, KK, ND, WK & XK systems
- 3/8" drive
- Metal Construction



#### CTA7638

##### Chrysler Valve Spring Compressor

- Valve spring compressor for Jeep, Dodge & Chrysler w/ 3.7L & 4.7L engines
- Applications include Dodge Durango, Dakota, Aspen and Jeep Grand Cherokee & Commander
- Services DR, HB, KA, KJ, KK & ND systems
- 3/8" drive
- Metal construction



#### CTA7639

##### Ford Valve Spring Compressor

- Allows quicker easier service
- For camshaft, valve seal, valve spring or retainer
- Services Ford vehicles w/ 4.6L, 5.4L & 6.8L 3V engines



#### CTA2823

##### Ford Valve Spring Compressor - 4.0L

- Precision made Spring Compressor with detachable end to enable access in tight areas
- Services Ford 4.0L SOHC V6 and some 4.6L V8's
- Compare to Ford Factory Tool #T95T-6565-A & #303-1552
- Applications: Explorer, Mountaineer, Crown Victoria, Grand Marquis & Marauder



#### KDT912

##### Valve Spring Compressor

- Use with 901 or 2992 air hold fittings to keep valve closed
- Length: 12-1/2"
- Made of quality construction for strength and durability

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#### KDT163

##### Valve / Tappet Gauge Blade

##### Type .008 to .026in.

- 11 blade gauge measures valve tappet clearances to .026 in.
- Offset blades provide wavy access
- Blade length: 3-3/4"



#### KDT2078

##### Universal Overhead Valve Spring Compressor

- Used to remove valve springs on most cars with overhead valves
- Tool maintains constant length as spring is compressed
- Use with KDT901 or KDT2992 air hold fittings to keep valve in place



#### KDT383

##### Valve Spring Compressor for Overhead

- Offset jaws are included: 383-70
- Made with a handle on the outside
- Throat depth: 7-1/2"
- Jaw openings 2-3/4" to 5-7/8"



#### KDT379

##### Small Engine Valve Spring Compressor

- Maximum opening: 2-3/8"
- Arms are hinged at one end so they are parallel at the other end at all points
- Jaws are adjustable in width and have edges so thin that they can be forced under and over ends of valve springs to compress it for removal
- Operating screw makes ratchets and locks unnecessary



#### KDT380

##### Valve Spring Compressor for Overhead and L-Head

- Throat depth 9-3/4" and jaw opening 2-3/4" to 7-3/4" fits larger engine sizes
- Jaws and plunger bar are easily adjusted
- Plunger bar seats on both flat and cup shaped valve heads
- Includes K-D 32 offset and K-D 35 straight jaws
- Offset and straight jaws are included



## ENGINE MECHANICAL

### Valve Tools



#### LIS36050 Valve Keeper Remover and Installer Kit

- Fits most Overhead Valve applications
- Smaller size fits new Chrysler New World Engine and some Toyota four cylinders
- Can work on the car or bench
- Magnet in tool body captures keepers for quick removal and valve disassembly

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#### LIS21100 1-1/8" and 1-3/8" Large Valve Lapper

- For hand lapping valves
- Thick, hardwood handles for easy lapping
- 1-1/8" and 1-3/8" diameter cups for larger valves
- Skin-packed. Shipping weight 2 oz.

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#### LIS16750 Valve Spring Compressor

- Makes compressing the spring and removing the keepers a simple job
- No need to remove the cylinder head
- Adjustable cam action
- No need to readjust the tool after each spring
- Use with putting compressed air into the spark plug hole to hold up valves

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#### LIS21200 5/8" and 13/16" Small Valve Lapper

- Thick, hardwood handles for easy lapping
- 5/8" and 13/16" diameter cups for smaller valves
- Skin-packed. Shipping wt. 2 oz.

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#### LIS19700 14mm and 18mm Air Operated Valve Holder

- For both 14mm and 18mm spark plug threads
- Commonly used when valve springs or valve stem seals are replaced
- Air pressure helps prevent the valve from falling into the combustion chamber
- Comes with two-step fitting for both 14mm and 18mm threads
- Heavy duty 12" flexible hose allows easy access to spark plug hole and air supply

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#### LIS68050 Valve / Tappet Gauge Blade Type .008 to .026IN.

- Precision blades are offset at the proper angle for adjustment of valve tappets
- Blades are approximately 1/2" wide by 4" long



#### LIS23300 3/4" to 1-1/16" Valve Spring Compressor

- Heavy-duty frame and screw for rigidity
- Two jaw sizes
- For Briggs and Stratton, Clinton, Harley-Davidson, etc
- Used for springs 3/4" to 1-1/16"

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#### LIS44300 Valve Spring Compressor

- High leverage allows one-hand operation
- Rigid frame, weighs only 6 lbs.
- Works with nearly all valve-in head and L-head engines as well as truck and tractor engines
- Medium offset jaws

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#### OTC303-1039 Valve Spring Compressor

- Applications: 4.6L 3V, 5.4L 3V
- Vehicles: Mustang, F-150, F-Super Duty 250-550, Explorer/Mountaineer/Sport Trac, Expedition/Navigator



#### OTC6684 Valve Spring Compressor

- Specifically designed for compressing valve springs on a Ford 3V 4.6L and 5.4L
- Same as Factory Tool 303-1039
- OTC Lifetime Warranty

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## ENGINE MECHANICAL

### Valve Tools



#### OTC7928

##### Ford Valve Spring Compressor Tool

- Works on: 1991–2004 Ford vehicles with 4.6L, two-valve, V8 engines; 4.6 4V, 5.4 V8 and 6.8 V10
- Weight: 6 oz.



#### LIS16560

##### GM LS Valve Spring Compressor

- Works on Most GM LS-Type engines
- Allows removal of the valve spring without removing the rocker stand or other rockers
- Can be used on or off the vehicle

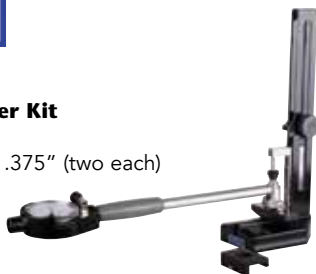
### Bore Gauges



#### FOW73-646-000

##### Bore Gage Setting Master Kit

- Base Anvil: 2.750" X .80"
- Adjustable anvil 2.375" X .375" (two each)
- Internal capacity: 6"
- Depth capacity: 1"
- 36 piece gage blocks



#### FOW72-646-220

##### Xtender-Metric Dial Bore Gauge 35-160mm

- Dial Bore Gauge 35-160mm



#### FOW72-646-300

##### XTender 6" Cylinder Dial Bore Gauge Set

- Range: 2" - 6"
- Graduation: .0005"
- Carbide anvils
- Insulated grip
- Chrome plated handle
- Includes extension holder and fitted case



#### FOW72-646-400

##### XTender 1.4" to 6" Dial Bore Gauge Set

- Carbide anvils
- Graduation: .0005"
- Easy to read and economical
- Insulated grip
- Chrome plated handle
- Includes extension holder and fitted case



### Cylinder Block & Piston Tools



#### CEN3D301

##### Storm Brand Import Cylinder Bore Gauge

Cylinder Bore Gauge Set, 2" to 6" range, .0005" graduations, self centering, in case



#### EZRPT13

##### Roll Pin Remover for Clutch Cylinders

- Removes and installs the roll pin that retains the hydraulic line to the master and slave cylinder
- Removes and installs roll pins on Hydraulic clutch lines
- Works well with steel or plastic components
- Eliminates the need for a hammer and roll pin punch

## ENGINE MECHANICAL

### Cylinder Block & Piston Tools

#### GW GEARWRENCH



##### KDT2125

##### 14mm Cylinder Head Rethreader Kit

- Tap is designed for aluminum heads only
- Set includes 4 inserts and thread locking compound
- This kit repairs damaged 14mm spark plug threads

Set includes 1 each of 4 inserts (3/8", 7/16", 1/2", and 3/4" reach) and thread locking compound.



##### KDT1114

##### Piston Ring Compressor Pliers

- Use these pliers with any of the following bands to install pistons from 2-5/8" to 5-7/8" (67mm to 149mm) in diameter
- Self-locking ratchet allows you to compress rings in small increments
- Pliers can be used parallel or perpendicular to the cylinder block on most bands sizes



##### KDT850

##### 2-7/8" to 4-3/8" Diameter Piston Ring Compressor

- Install pistons from 2-7/8" to 4-3/8" (73mm to 111mm)
- Has a Fine-tooth ratcheting lock
- Set includes pliers and 6 bands
- Pliers can be used parallel or perpendicular to the cylinder block



##### LIS21700

##### 3" to 5" Wrinkle Band Ring Compressor

- Wrinkle band cuts friction in half
- Rings slide in easily
- CAM operated - set adjustment screw just once for entire set of pistons
- Insert a full set of pistons in half the time, with half the work
- Wrinkle band can't slip down into the cylinder

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##### LIS18500

##### 1-1/2" to 3" Small Engine Piston Ring Compressor

- For small cylinders: 1-1/2" to 3" (38.1-76.2mm)
- Quality tool at a low price
- Takes all the rings at one setting

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##### LIS19500

##### 2-1/8" to 5" Piston Ring Compressor

- Lisle spring clutch eliminates ratchet problems
- Assures a proper fit on the piston and a positive locking action
- Range 2-1/8" to 5" (Height 3-1/2")

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##### LIS20500

##### 3-1/2" to 7" Piston Ring Compressor

- Lisle spring clutch eliminates ratchet problems
- Assures a proper fit on the piston and a positive locking action
- Range 3-1/2" to 7". (Height 3-1/2")

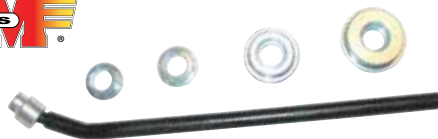
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##### LIS21000

##### 3-1/2" to 7" Piston Ring Compressor

- Assures a proper fit on the piston and a positive locking action
- Range: 3-1/2" to 7" • Height: 7"

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##### VIMV310

##### 5-Piece Expansion Plug Tool Set

- 7/8" through 2-1/4" diameter plugs

## ENGINE MECHANICAL

### Sending Units & Sockets



#### AST7801 7 Piece Sensor and Sending Unit Socket Set

- Made of Cr-V for durability
- Comes in a blow molded case

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#### KDT3923 3/8" Drive Oil Pressure Sending Unit Socket, 1-1/16"

- Deep well allows for up to 2-5/8" clearance
- 74mm long
- Works on most 1991 - Current GM vehicles using oil pressure gauge: 4 cylinder and 3.1 liter V6; 1987 - Current Chrysler vehicles with light and gauge oil pressure switches.



#### LIS13200 Universal Oil Pressure Sending Unit Socket

- Fits 1" and 1-1/16" switches up to 1-5/8" long
- One socket with the correct length to fit most 1" and 1-1/16" oil pressure switches (for vehicles equipped with warning lights)
- 1-7/8" overall height for clearance
- Use with 3/8" drive or 1-1/8" hex

#### LIS13250 Oil Pressure Switch Socket

- Fits 1-1/16" oil pressure sending unit (gauge type), found on most all '91 and newer GM vehicles
- Also fits '87 and newer Chrysler vehicles with combination light and gauge oil pressure switches
- Use with 3/8" drive or 1-1/8" hex



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#### SCH12400 Duramax Turbo Vane Position Sensor Socket

- R and R Duramax Turbo Vane Sensor on vehicle without disassembling turbo
- Split socket design allows access to sensor without damaging sensor wire
- Fits 2004 to current Duramax and Isuzu F series diesel engines

### Cylinder Hones



KDT3029



KDT2833

Part #	Purpose	Grit	Grit
KDT3029	For brake, master and wheel cylinders - 3/4 - 2-1/2	Medium	
KDT2833	Engine Cylinder	Medium	240
KDT2834	For rough honing	Coarse	100
KDT2835	For general purpose honing and glaze breaking	Medium	240
KDT2836	For hydraulic cylinders	Fine	400



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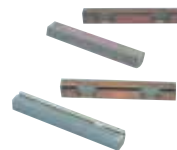


#### LIS15000 Engine Cylinder Hone

- Micrometer head assures accuracy in feeding
- Expands quickly to cylinder size with fast action rack and pinion
- Bottom guard plate helps prevent stones from accidentally hitting the crankshaft
- Clip-on stones and wipers are easily changed in a few seconds, stones are available in five grits
- Use with heavy-duty 1/2" drill

#### LIS15500 Stone 80 Grit for LIS15000

- 80 Grit Stone/Wiper Set for the LIS15000
- Contains replacement stones and wipers



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#### LIS15510 180 Grit Stone/Wiper Set for the LIS15000

- Medium size stones
- Contains replacement stones and wipers
- 180 Grit Stone and wiper set for the 15000

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#### LIS15520 280 Grit Stone/Wiper Set for the LIS15000

- Contains replacement stones and wipers for engine cylinder hones

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## ENGINE MECHANICAL

### Cylinder Hones



#### LIS36500

##### 2-11/16" to 5-5/16" Cylinder Ridge Reamer

- Rollers assure easy turning in cylinder
- Exclusive stabilizer spring allows operator to take selective cut to minimize chatter
- Spring-loaded carbide cutter follows contour of cylinder
- Complete ridge removed in just a few easy turns
- Offset jaw guides assure rigidity throughout the range



#### LIS36510

##### Ridge Reamer Carbide Cutter for LIS36500

- Spring-loaded carbide cutter follows contour of cylinder

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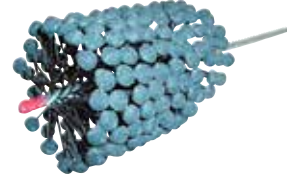
#### LIS23500

##### 2" to 7" Glaze Breaker Engine Cylinder Hone

- Controlled pressure to ensure a consistent surface finish and round cylinder shape
- Operates with any electric drill
- Adjustable stop collar permits quick selection of two range settings, from 2" to 4" and from 4" to 7"
- Furnished with 3" long 220 grit stones
- Stone arms are easily compressed to eliminate cylinder scratches
- Skin-packed. Shipping wt. 1 lb. 4 oz.

Part #	Description
LIS23520	220 Grit Stone Set for LIS23500 Hone
LIS23530	240 Grit Stone Set for LIS23500 Hone
LIS23540	320 Grit Stone Set for LIS23500 Hone

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#### BRM Flex Hones - Standard Duty

Part #	Application
BRMGB3-1/4	Block Cylinders
BRMGB3-1/2	Block Cylinders
BRMGB3-3/4	Block Cylinders
BRMGB4-1/8	Block Cylinders

#### BRM Flex Hones - Heavy Duty

Part #	Application	Bore Size
BRMGDB3	Block Cylinders or Liners	3" to 2-3/4"
BRMGDB3-1/2	Block Cylinders or Liners	3-1/2" to 3"
BRMGDB3-3/4	Block Cylinders or Liners	3-3/4" to 3-1/4"
BRMGDB4	Block Cylinders or Liners	4" to 3-1/2"
BRMGDB4-1/4	Block Cylinders or Liners	4-1/4" to 3-3/4"
BRMGDB4-1/2	Block Liners	4-1/2" to 4"
BRMGDB5	Block Liners	5" to 4-1/2"
BRMGDB5-1/2	Block Liners	5-1/2" to 5"

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## ENGINE MECHANICAL

### Pullers

**MUELLER  
KUEPS**  
German Automotive Tool Innovator



**MLK609400-460  
35 Piece Universal Press  
and Pull Sleeve Kit with  
XL C-Clamp with  
Vibro Impact Spindle**

- The #1 Press & Pull Sleeve Kit on the market
- Sleeves inner diameter from 34 - 72 mm
- Universal tool for extracting and mounting the following: silent bearings, hydraulic bearings, ball bearings, rubber bearings, shift seals, bearing bushes, etc
- Sleeves not hardened (only step discs are hardened) and thus they can be modified with e.g. file to individual requirements, Sleeves can be stacked
- Complementary universal base frame (for direct use on car) and other sizes sleeves and spindles available separately
- Can also be used with 12 ton hydraulic spindle and baseframe (mueller 609 312, not included in offer) or Impact wrench for greater application of force
- Includes Vibro impact spindle TR20K with ball bearing
- To be used with Mueller Press and Pull Kit 609 400



**MLK609390  
XS Press and Pull Sleeve Kit**

- Universal tool set for extracting and mounting: silent bearings, hydraulic bearings, ball bearings, rubber bearings, shaft seals, bearing bushes, etc.
- Includes 10 sleeves, 3 spindles, and 4 discs
- Sleeves are smaller in size and stackable
- Universal application makes it ideal for a wide range of vehicles
- Can be used in combination with the Press And Pull Sleeve Kit (609400)

**MUELLER  
KUEPS**  
German Automotive Tool Innovator



**MLK609400  
28 Piece Universal Press and Pull Sleeve Kit**

- Sleeves inner diameter from 34 - 72 mm
- Universal tool set for extracting and mounting the following: silent bearings, hydraulic bearings, ball bearings, rubber bearings, shaft seals, bearing bushes, etc
- Ideal for various vehicles, due to universal application
- Sleeves not hardened (only step discs are hardened) and thus they can be modified with e.g. file to individual requirements
- Complementary hydraulic, c-type clamp, universal base frame (for direct use on car) and other sizes sleeves and spindles available separately

Includes: 4 step discs, 20 sleeves from 34 - 72 mm inner diameter (in 2 mm increments), and 4 spindles with nut with bearing in sizes M10, M12, M14 and M16.



**MLK432600  
Universal Press Disc Kit With Case**

- Ideal for use with combination of the MLK432650 Universal Press Support Set and a shop press
- High quality universal tool set for pressing in and out
- For use on wheel bearings, bushings, shaft seals, and more
- Includes high quality and sturdy carrying case

## ENGINE MECHANICAL

### Pullers



#### MLK609399

##### Press & Pull Sleeve Basic Kit

- Universal tool set for extracting and mounting: silent bearings, hydraulic bearings, ball bearings, rubber bearings, shaft seals, bearing bushes, etc.
- Universal application makes it ideal for a range of vehicles.
- 8 sleeves, 2 spindles, 4 discs
- Sleeves inner diameter from: 34 - 72 mm (1-3/8" - 2-7/8")



#### MLK609420

##### 36 Piece Universal Press and Pull Sleeve Kit

- Universal tool set for removing and installing all types of bushings, bearings, and seals
- Includes sleeves are large enough to fit most heavy duty applications

Set Includes: 20 sleeves (74 to 112 mm inside diameter in 2 mm increments), 4 step discs to match sleeve sizes, 1 spindle TR20 short and 1 long with inside adapter thread (M10, M12 and M14), 2 adapters for step discs, 2 nuts (M10, M12, M14 and M16 with bearing), Counter nuts (M10, M12 and M14) and Spindle Grease.



#### 2 and 3 Jaw Reversible Pullers

- The reversible jaws feature a wide face on one end and a narrow face on the other
- Jaws grip tighten as pressure is applied
- Drop forged
- Lifetime Guarantee
- Alloy steel, hardened to 45 HRC.

**⚠ WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#### 2 AND 3 JAW REVERSIBLE PULLERS

Product #	Description	Capacity	Reach	Spread
<b>KT170301</b>	2 Jaw	2 Ton	3-1/4"	4"
<b>KT170302</b>	2-3 Jaw	2 Ton	3-1/2"	4-3/4"
<b>KT170303</b>	2 Jaw	4 Ton	3-1/4"	6"
<b>KT170304</b>	2-3 Jaw	5 Ton	3-1/4"	7"
<b>KT170305</b>	2 Jaw	5 Ton	3-1/4"	6"
<b>KT170306</b>	2-3 Jaw	5 Ton	3-1/4"	7"



#### 2 AND 3 JAW REVERSIBLE PULLERS

Product #	Description	Capacity	Reach	Spread
<b>KT170311</b>	2 Jaw	2 Ton	3-1/2"	4"
<b>KT170312</b>	2 Jaw	5 Ton	3-1/2"	6"
<b>KT170313</b>	2 Jaw	5 Ton	5-1/2"	7"
<b>KT170321</b>	3 Jaw	2 Ton	3-1/2"	4"
<b>KT170322</b>	2-3 Jaw	5 Ton	3-1/2"	7"
<b>KT170323</b>	2-3 Jaw	5 Ton	5-1/2"	8"

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## ENGINE MECHANICAL

### Pullers



#### Mechanical Grip-O-Matic Pullers

These pullers are forged from quality steel, heat treated, and subjected to rigorous tests which exceed their rated capacity. These pullers enable you to remove and install parts for fast, effective repairs.

1020



1027



#### MECHANICAL GRIP-O-MATIC PULLERS

Product #	Description	Capacity	Reach	Spread	Screw Size	Jaw Thickness
<b>OTC1020</b>	2 Jaw	1 Ton	2-1/8"	3-1/4"	5/16" - 24 x 3-7/8"	9/64"
<b>OTC1021</b>	3 Jaw	1 Ton	2-1/8"	3-1/4"	5/16" - 24 x 3-7/8"	9/64"
<b>OTC1022</b>	2 Jaw	2 Ton	3-1/4"	4"	3/8" - 24 x 4-7/8"	Upper 3/16" Lower 1/8"
<b>OTC1023</b>	2-3 Jaw	2 Ton	3-1/4"	4-3/4"	3/8"-24 x 4-7/8"	Upper - 3/16", Lower 1/8"
<b>OTC1024</b>	2 Jaw	5 Ton	3-1/4"	6"	9/16"-20 x 6-15/16"	Upper - 5/16", Lower - 1/4"
<b>OTC1025</b>	2 Jaw	5 Ton	5-1/2"	6"	9/16" - 20 x 6-15/16"	Upper - 5/16", Lower - 1/4"
<b>OTC1026</b>	2-3 Jaw	5 Ton	3-1/4"	7"	9/16"-20 x 6-15/16"	Upper - 5/16", Lower - 1/4"
<b>OTC1027</b>	2-3 Jaw	5 Ton	5-1/2"	7"	9/16" - 20 x 6-15/16"	Upper - 5/16", Lower - 1/4"
<b>OTC1035</b>	2 Jaw	7 Ton	5"	9"	11/16" - 18 x 9"	Upper - 5/16", Lower - 11/32"
<b>OTC1036</b>	2-3 Jaw	5 Ton	8-3/4"	9-1/2"	11/16" - 18 x 9"	11/32"
<b>OTC1037</b>	2-3 Jaw	7 Ton	5"	10-1/2"	11/16" - 18 x 9"	Upper - 5/16", Lower - 11/32"
<b>OTC1038</b>	2-3 Jaw	7 Ton	8-3/4"	11"	11/16" - 18 x 9"	11/32"
<b>OTC1039</b>	2 Jaw	13 Ton	11"	12"	13/16" 16 x 12"	9/16"
<b>OTC1040</b>	2 Jaw	13 Ton	15-1/4"	15-1/2"	13/16" 16 x 12"	
<b>OTC1041</b>	2-3 Jaw	13 Ton	11"	12"	13/16" - 16 x 12"	9/16"
<b>OTC1042</b>	2-3 Jaw	13 Ton	15-1/4"	17"	13/16" - 16 x 12"	9/16"
<b>OTC1044</b>	2 Jaw	17-1/2 Ton	18-3/4"	16"	1"-14 x 13-1/2"	13/16"



#### Reversible Pullers

- Reversible jaw design for added versatility and a broader range of pulling capability
- 5 ton capacity 8 way reversible puller, is ideal for pulling gears, bearings, pulleys and other press fit parts. It's made with the quality and durability to last!

3905



3907



3908



#### 4 AND 8 WAY REVERSIBLE PULLERS

Product #	Description	Capacity	Reach	Spread
<b>SUN3905</b>	2 Jaw 4 Way Reversible	2 Ton	3.375"	4"
<b>SUN3907</b>	2-3 Jaw 4 Way Reversible	5 Ton	3.25"	4.75"
<b>SUN3908</b>	2-3 Jaw 8 Way Reversible	5 Ton	5.5"	7"

## ENGINE MECHANICAL

### Pullers



#### POS104 3 Jaw, 4", 5 Ton Puller

- Safety Cage design guides jaws for a fast setup, solid contact and superior safety
- Nut recessed to avoid mushrooming and disfiguration from impact
- T-handle locks jaws precisely where you set them
- Slim tapered jaws allow for easier gripping and better access to tight spots
- Hardened tip



#### POS106 3 Jaw, 6", 10 Ton Puller w/P6

- Safety Cage design guides jaws for a fast setup, solid contact and superior safety
- Nut recessed to avoid mushrooming and disfiguration from impact
- T-handle locks jaws precisely where you set them
- Slim tapered jaws allow for easier gripping and better access to tight spots
- Hardened tip



#### POS110 3 Jaw, 9.67", 20 Ton Puller w/P10

- Safety Cage design guides jaws for a fast setup, solid contact and superior safety
- Nut recessed to avoid mushrooming and disfiguration from impact
- T-handle locks jaws precisely where you set them
- Slim tapered jaws allow for easier gripping and better access to tight spots
- Hardened tip



#### POS116 3 Jaw, 14", 40 Ton Puller w/P13/16

- Safety Cage design guides jaws for a fast setup, solid contact and superior safety
- Nut recessed to avoid mushrooming and disfiguration from impact
- T-handle locks jaws precisely where you set them
- Slim tapered jaws allow for easier gripping and better access to tight spots
- Hardened tip



#### POS206 2 Jaw, 6", 6 Ton Puller w/P6

- Safety Cage design guides jaws for a fast setup, solid contact and superior safety
- Nut recessed to avoid mushrooming and disfiguration from impact
- T-handle locks jaws precisely where you set them
- Slim tapered jaws allow for easier gripping and better access to tight spots
- Hardened tip



#### POS208 2 Jaw, 8", 12 Ton Puller w/P10

- Safety Cage design guides jaws for a fast setup, solid contact and superior safety
- Nut recessed to avoid mushrooming and disfiguration from impact
- T-handle locks jaws precisely where you set them
- Slim tapered jaws allow for easier gripping and better access to tight spots
- Hardened tip



#### CTA8050B 10" 2/3-Jaw Gear Puller

- 10" 2/3-Jaw Gear Puller
- Length: 9.75 "
- Width: 9.5 "



## ENGINE MECHANICAL

### Pullers



#### Ratcheting Pullers

- Anti-mushrooming head, allows socket to continue to fit on head after it's been tapped down
- Innovative geared jaws make positioning very simple
- Quick change jaws for 2/3 jaw and internal/external operations
- Chrome-plated rotating replaceable tip
- Forged jaws for strength

**KDT3624**  
**2-Ton Ratcheting Puller**

3624

**KDT3625**  
**5-Ton Ratcheting Puller**

**KDT3626**  
**7-Ton Ratcheting Puller**



**KDT3563**  
**Combination 2 & 3 Jaw Reversible (Internal/External) Pullers**

- Jaws reverse for inside and outside pulling
- Large spread and reach accommodate flywheels, pulleys and gears
- Three-point grip applies a parallel pull



**KDT3551**  
**2 Jaw Reversible Internal and External Puller - 2 Ton**

- Maximum reach: 3-1/2"
- Maximum spread: 5"
- Screw size: 3/8" x 24

**KDT3561**  
**2 Ton 2/3 Jaw Reversible Puller**

- Max. reach: 3-1/2"
- Max. spread: 5"
- Comes in a plastic box



### Water Pump Tools



**SCH61500B**  
**GM Water Pump 4 Pin Fan Clutch Pulley Holding Tool**

- Designed with billet bulkhead pins
- Billet bulkhead pins give greater durability
- Used on "pressed on" water pump pulleys
- Used on many 2000 and later GM trucks



Used on the following applications:

- 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 new pin bar fan hub 2006 and later.

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**SCH13100**  
**Duramax Water-in-Fuel Sensor Double Sided Wrench**

- Two tools in one
- 42 mm 6 side fits 2011 to current years
- 40 mm 12 side fits 2001 to 2010
- Used every time a fuel filter is replaced



When replacing the fuel filter on a 2001 to current GM DURAMAX light duty truck, the water-in-fuel sensor located in the bottom of the filter must be removed and reused in the new filter. This wrench has two sides, one designed to fit the odd shaped 40mm, 12 sided sensor found on 2001 to 2010 trucks, the other end fits the 42mm, 6 sided sensor on the 2011 to current trucks.

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**OTC7483A**  
**Water Pump Pulley Remover/Installer**

- Specifically for 3.0 DOHC engines
- Helps remove and install water pump pulleys on Ford and Mercury 3.0L DOHC engines
- For Ford, Lincoln and Mercury

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## ENGINE MECHANICAL

### Water Pump Tools



#### LIS13500A

##### 41mm Water Pump Wrench for GM 1.6L

- Easily adjust and hold the water pump when replacing or adjusting the timing belt
- Stubby tool design allows access to timing belt sprocket without interference from vehicle frame
- Works on 1.6L engines in 2004-current Chevrolet Aveo excluding 2009 with variable timing
- Also works on 1999-2002 Daewoo Lanos
- Heat-treated alloy steel for strength

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#### LIS14440

##### Water Pump Socket/Wrench for GM

- Removes and installs the water pump assembly on GM Northstar 4.0L and 4.6L engines
- Turn the tool with a 1/2" drive ratchet or breaker bar
- Angled teeth prevent the tool from slipping

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#### LIS13800

##### Water Pump Sprocket Holder for GM Ecotec

- Keeps timing set when replacing the water pump on GM Ecotec engines
- Securely holds water pump sprocket
- Special half-moon design allows easier access to water pump gear bolts
- Uses access cover bolts and holes to hold the tool in place
- O-rings on bolts keep the tool together when not in use

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



#### OTC6616

##### GM Water Pump Holding Tool

- Holds timing chain in place so waterpump can be removed for service
- Special design allows easy application regardless of timing chain orientation

Holds Timing Chain in place on 2002 and newer GM EcoTech motors. 2.2L & 2.4L Chevrolet, Oldsmobile, Saturn, Pontiac. Application GM EcoTech 2.2 Engine code F 2002 - 2005 Chev Cavalier 2003 - 2007 Chev Malibu 2002 - 2004 Olds Alero 2002 - 2005 Pontiac Sunfire 2002 - 2005 Pontiac Grand Am 2002 - 2007 Saturn Vue 2003 - 2007 Saturn Ion 2000 - 2005 Saturn L series 2.4 Engine code B 2005 - 2007 Chev Cobalt 2005 - 2007 Chev HHR 2006 - 2007 Pontiac G6 2006 - 2007 Pontiac Pursuit 2006 - 2007 Pontiac Solstic.



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#### OTC5071

##### Cummins Water Pump Pulley Remover / Installer

- This heavy duty tool is designed to remove or install water pump pulleys on Cummins L10 and M11 engines, 1991 and newer
- The installer has a rugged thrust bearing that allows for friction-free pulley installation without damaging pump components



### Engine/Gear Holders



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SCHLEY PRODUCTS INC.

#### SCH11500

##### Small Pin Universal OHC Gear Holding Tool

- Hold OHC gear while removing or installing center bolt
- Use to turn OHC, engine, timing chain or belt or other related components
- Small pin and pin spread work on Honda, Nissan, Toyota and other OHC engines
- Originally designed for Honda / Acura 1988 to 1995 Civic & Integra engines



#### SCH12100

##### Dodge and Chrysler V6 Cam Gear Holder

- Cam Gear Holder allows cam gear center bolt to be removed and replaced without damage to the gear
- Cam gear holder "through hole" allows cam gear bolt R & R using a socket
- Wrench allows accurate torquing of the cam gear bolt
- Fits 18 Dodge & Chrysler models from 1995 to 2011
- 1995 - 2010 3.5L & 2007 - 2011 4.0L V6



#### THX419X

##### GM Engine Moving Tool

- Fits GM front wheel drive vehicles with engine torque struts
- Safely holds engine in place
- Extra bolt holes provide fit on all vehicles
- Includes adapter 419A



## ENGINE MECHANICAL

### Seal Tools



#### CTA7643

##### BMW Crankshaft Seal Removal Kit

- Removes & installs front & rear crankshaft seal
- Services N40, N42, N45, N45T, N46, N46T, N52, N52K, N53, N54 & N55
- Comparable to BMW Factory Tool #119 220, 119 230, 119 235 & 110 370



#### KDT2270

##### Flywheel Turner

- Sturdy plastic handle for grip
- Used when working on clutches, transmissions, installing rings or other jobs that require the crankshaft to be in a specific position
- Spring tension aids tool engagement on the flywheel

This fly wheel turner is used when working on clutches, transmissions, installing rings or other jobs that require the crankshaft to be in a specific position. The hard plastic handle helps to keep a grip. When rotating the crank shaft, hook this tool into flywheel teeth to rotate.

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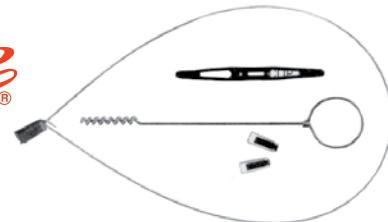


#### KDT3245

##### Seal Puller

- Use tool to remove oil and grease seals on automobiles and light trucks
- Puller has two tip sizes for most applications
- Insert tip behind seal and use leverage to remove

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#### LIS27000

##### Sneaky Pete Oil Seal Remover/Installer

- Removes and installs upper rear main seals without dropping crankshaft
- Includes everything needed to speed up a long, slow job
- Cork screw puller makes it easy to remove old seal

#### LIS31840

##### O-Ring and Seal Pick

- Quickly removes and installs "O" rings and seals
- Tips are angled for hard-to-reach areas typically found around brakes, air conditioning and transmissions
- Tips are hardened to stay sharp • Knurled handle



#### LIS56750

##### Oil Seal Puller for Oil and Grease Seals

- For oil and grease seals
- Simply insert the tip of the tool behind the oil or grease seal, press and pull
- Two size tips reach in and fit nearly all seal applications



#### LIS56650

##### Adjustable Seal Puller

- Head adjusts to 5 positions
- Two hook sizes easily remove most oil and grease seals
- Where clearance is a problem, remove the pin to reposition the head
- Great on front wheel drive transaxles
- Also works on front crankshaft seals without removing the radiator



**ASSENMACHER  
SPECIALTY TOOLS**  
ASTTOOL.COM



#### ASSBMW5254

##### BMW Front Crank Seal Removal and Installation Tool

- Used to loosen the seal for removal and installation of new front crank seals
- For use on BMW N52 engines
- When used in conjunction with BMW #119235, this set will also work for N55 engines

## ENGINE MECHANICAL

### Seal Tools

# OTC



#### OTC7834

##### Ford Rear Crankshaft Seal Installer

- This installer works on crankshaft rear oil seals that come with or without a metal wear sleeve
- Designed for use on 1993–1997 Aerostar or 1993–2004 Ranger and Explorer w/4.0L V6 engine



#### OTC7786

##### Ford Rear Main Seal Installer

- This installer is the most accurate way to ensure that the rear main seal is set to the correct depth on the crankshaft
- The installer fits over the seal, and with the two bolts included, attaches to the engine crankshaft
- By alternately tightening the bolts, the seal is pulled into place quickly, easily, and with no damage to the rear main seal

Works on 2.0L, 2.3L, 2.3L OHC, 2.5L, 2.5L OHC 4-cylinder engines, 3.0L 2V, 3.0L 4V, 3.4L SOHC, 3.8L, 3.8L SC V6 engines; 4.6L 2V, 4.6L 4V, 5.0L and 5.8L V8 engines.



#### OTC4508

##### Professional Style Seal Puller

- Designed to remove oil and grease seals when servicing cars, SUVs and light trucks without damaging the housing or bearing
- Hook tips in two sizes and professional handle design allows removal of hard-to-get-at seals by getting under them
- The hook tip is double secured versus competitors, for safety and durability
- An extra blade is included; and additional replacements may be ordered



#### OTC7103

##### O-Ring/Oil Seal Pick Set

- Fishing a stubborn o-ring or oil seal out of its seat is easy if you have this pair of picks in your toolbox



#### OTC7312

##### O-Ring and Seal Pick

- Pick has a metal shaft
- Weight: 2 oz.

# TOOL AID

TOOLS FOR THE PROFESSIONAL



#### SGT31800

##### Seal Puller

- Use to remove oil and grease seals on cars, SUV's and light trucks
- Has 2 sizes of hook tips to fit most applications
- Just insert the tip of the hook behind the seal and use leverage to remove
- Heat treated, black oxide tips and chrome plated shaft

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# TITAN

#### TIT17004

##### 4 Piece Seal and O-Ring Remover Set

- (2) contoured tips
- (2) spoon tips - length 5-1/2" and 8-1/2"
- CRV Steel shafts



### Flywheel Tools

# Lisle



#### LIS23800

##### Flywheel Turner

- Hold or turn flywheels and flexplates on most vehicles
- Use this special wrench to turn the flywheel and rotate the engine
- Also holds the flywheel or flexplate when torquing the flywheel or harmonic balancer bolts

# OTC

#### OTC6759

##### Flywheel Holding Tool

- Holds the flywheel in place for servicing the balancer or flywheel bolts
- Mounts in place of the starter and engages the flywheel ring gear teeth
- Similar to EN-50792
- Applications: 2013-14 Cadillac ATS, 2014 Cadillac CTS, 2013-14 Chevrolet Malibu, 2014 Chevrolet Impala & Buick Regal 2.0L, 2.5L engines



## ENGINE MECHANICAL

### Flywheel Tools



#### OTC7471A

##### Cummins Engine Barring Tool

- Works on Cummins B and C series diesel engines and 5.9L liter diesels used in Dodge pickups
- Provides friction-free operation while rotating the tool in the housing
- Just insert the tool into the flywheel housing until it engages the ring gear, then attach a 1/2" square drive ratchet or breaker bar and turn.



#### OTC7403

##### Steering Wheel, Pulley, and Flywheel Puller

- Pulls steering wheels on most late model cars
- Works as a regular 2/3 way puller to remove pulleys and small engine flywheels
- Works on domestic cars with or without collapsible steering columns



Cap screws included (pairs): 3/8-16 x 3-1/2"; 5/16-18 x 3-1/2"; 5/16-24 x 3-1/2"; M8-1.25 x 90 mm; and 5/16-18 x 4 in. (SIR).

### Prop Tools



#### EZRRH1000

##### "Monster" Tailgate Telescoping Holder

- Telescopes from 25 inches to 5 feet
- The only prop to hold sport utility or mini-van gates 100% open
- Exclusive double locking system



Innovative auto body tools and equipment



#### STC17100

##### Hatch Jammer™ Lift Gate and Hatch Holder

- Allows body shop technicians to hold lift gate or hatch in a partially open position for sanding, painting or buffing including being able to work on the edges of the panel
- Adjustable 11-1/2" slide bar gives up to 24" to adjust the angle and is secured by tightening the two adjustment knobs



#### LIS46170

##### Hood Prop with Support

- Includes a support to help prevent slipping
- Telescopes from 18-1/2" to 46-3/4"

#### LIS45900

##### Hood Prop Telescoping 18-1/2" to 46-3/4"

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#### LIS44870

##### Universal Lift Support Clamp

- Holds weak gas charged lift supports open
- Tool holds gas charged lift supports found on hoods, tailgates, hatchbacks and trunks
- Clamp securely holds weak lift supports in the extended position to allow access to the engine compartment or luggage area

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#### THX430

##### Universal Hood Prop

- For vehicles with weak gas cylinder lifts on hoods, tailgates and trunks
- Securely attaches to lift rod and holds hood, trunk or tailgate in place
- Allows the user access under the hood or rear luggage area without the use of clumsy props

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#### VIMV387

##### Hood Holder

- Adjustable length, 28" thru 46"



#### VIMV388

##### 20" to 46" Telescoping Hood Prop

- Anodized aluminum
- Adjustable length: 20" thru 46"

## COOLING SYSTEMS

### Cooling System Testers

# Astro



#### AST78585

#### Radiator Pressure Tester and Vacuum Type Cooling Kit with 78581 Adapter

- Allows for easy testing for leakage in radiator system and quick change of coolant
- Unit is suitable for domestic and import vehicles
- Color coded radiator test caps make it easy to choose the suitable test cap for the job
- Special design of vacuum purge and refill tool connection fits nearly all type of radiator opening

Set Includes: Pressure testing pump with hose, quick coupler with pressure release, and gauge: test range 0-35 psi (0-2.5 bar); 1 piece blue and 1 piece black radiator cap test adapters to test for original radiator cap leakage; 17 pieces test caps for testing cooling systems on most domestic and import vehicles; vacuum type cooling system purge and refill tool kit for quick change of coolant; universal adapter; temperature gauge and a blow molded case.



#### FJC43664

#### Radiator & Cap Pressure Tester Kit

- For use in pressure testing Radiator caps and radiators
- For use with most domestic and import autos and light trucks

Kit includes: FJC43700 - Thermometer, FJC43701 - Hand Pump, FJC43802BK - 123/124 Cap Adapter Black, FJC43802BL - 123/124/ Cap Adapter Blue, FJC43703 - 2-1/4" Tester Adapter, FJC43705 - 1-5/8" Tester Adapter, FJC43704 - 1-3/4" Tester Adapter, FJC43806 - Tester Adapter Dard Pink, FJC43807 - Tester Adapter Orange, FJC43808 - Tester Adapter Purple, FJC43809 - Tester Adapter Purple, FJC43810 - Tester Adapter Gray, FJC43811 - Tester Adapter White, FJC43812 - Tester Adapter Sea Green, FJC43813 - Tester Adapter Light Pink, FJC43814 - Tester Adapter Blue, FJC43815 - Tester Adapter Camo Green, FJC43816 - Tester Adapter Blue, FJC43817 - Tester Adapter Neon Green, FJC43818 - Tester Adapter Light Blue, FJC43819 - Tester Adapter Small Yellow, FJC43820 - Tester Adapter Brown, FJC43821 - Tester Adapter Large Yellow, FJC43822 - Tester Adapter Green, FJC43848 - Universal Coupler Adapt, FJC43849 - Coolant Refill Assembly and FJC43816 Cap Wrench in a Blow Molded Case.

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vehicle | SPECIALTY



#### FJC43658

#### Radiator and Radiator Cap Pressure Test Kit

- For use in testing radiators
- For use in testing radiator caps
- Confirms radiator leaks
- Confirms cooling system leaks
- Test radiator caps for proper operation



#### LIS69700

#### 12 Piece Turbo System Leakage Test Set

- The turbo system leakage tester helps locate air leaks in the components by plugging the output side of the turbo and plugging the intake inlet
- Air is applied through one end of the adapter to show the presence of leaks within the system
- Kit features a pressure gauge, shut off valve and pressure regulator and comes with six pairs of stepped adapters to fit most sizes of hose
- Can also be used on cooling system hoses

## COOLING SYSTEMS

### Cooling System Testers

**mityvac®**



#### MITMV4535

##### Cooling System Air Evac and Refill Kit

- Quickly refills automotive cooling systems and eliminates trapped air and detects leaks
- Universal adapter forms an airtight seal with all radiator and coolant bottle necks • No custom adapters required
- Patent Pending Valve Coupler provides multiple test capability and flexibility to access tight areas
- All components assemble using quick-connects for safe and easy set up and breakdown
- Kit includes: 2-1/2" (65 mm) diameter diaphragm style vacuum gauge, compressed-air-operated Venturi Vacuum, valve coupler, universal cooling system adapter, (2x) 30" (760 mm) extension hose, 5' (1.5 m) coolant refill hose, custom molded case, and user's manual

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#### MITMV4534

##### Universal Cooling System Test Kit

- High-volume hand-operated pump builds pressure quickly to locate leaks
- Universal cooling system adapter replaces more than 20 individual adapters for cars, vans, light- and heavy-duty trucks
- Patent-pending adapter cam mechanism ensures an air-tight seal with radiator and coolant bottle necks
- Large, easy-to-read 2.5" diameter gauge includes clearly indicated pressure test zones
- Convenient push-button valve safely relieves pressure when testing is complete
- Includes hand pressure pump w/ 2.5" diameter gauge with push-button pressure release valve, universal radiator test adapter, custom-molded case, user manual (English, Spanish, French)

**mityvac®**



#### MITMV4525

##### Coolant System Test, Diagnostic and Refill Kit

- Patent pending coupler combines pressure, vacuum, and temperature testing capabilities in one kit
- Test cooling system with engine on or off to pinpoint leaks or diagnose blown head gaskets, cracked block, or damaged head(s)
- Refills cooling system in minutes without trapping air that can cause overheating
- Includes four (4) adapters for connecting to the most common radiator and coolant bottle necks found on domestic and Asian automobiles

#### MITMV4530

##### Cooling System Pressure Test Kit



#### MITMV4560

##### Radiator / Cooling System Pressure Test Kit

- Economical, accurate and simple method to find common causes of overheating
- Pinpoints external leaks caused by loose clamps or leaky hoses, connectors, water pumps or radiators
- Diagnoses internal leaks caused by a blown head gasket or damaged block or head
- Test radiator and coolant bottle caps to ensure they are maintaining the correct pressure
- Contains adapters to test the cooling system and caps of most US and Asian manufactured cars
- User Manual (English, French, Spanish)

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#### MITMV4510

##### Motorcycle Cooling System Test Kit

- Durable, lightweight, non-corrosive PVC construction
- Pivoting lever action maximizes output with minimal operator effort
- Gauge displays psi and kpa units
- Powerful in-line piston design
- One finger lever-action vacuum release



## COOLING SYSTEMS

### Cooling System Testers

# OTC



#### OTC7991 Cooling System Pressure Tester

- Now you can pressure test the cooling system on most cars, light commercial trucks, motorcycles, and even marine applications
- The tester's universal fit eliminates the need for multiple adapters

Note: Will not work on Saturn and Kia cars or Jeep with the plastic reservoir.

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# OTC



#### OTC6977 Universal Cooling System Pressure Tester

- Hand pump with integrated gauge
- 4 adapters (1/4", 5/16", 1/2" and 5/8") with Schrader valves to prevent spray
- Dedicated pressure hose with quick-connect
- Raised gauge to reduce chance of damage if tipped
- Includes a cap adapter



#### OTC5039 Charged Air Cooler Tester

- This is the easy way to find air leaks in the charged air cooler systems used on class 7 and 8 truck engines
- Features a large 2-1/2", 0-60 PSI pressure gauge, regulator and relief valve, and two safety cables
- Also has quick disconnect air fittings that attach to a 3", 3-1/2", or 4" cooler hose

# MOUNTAIN



#### MTN4356 Radiator Pressure Test Kit

- Use pressure pump with adapters to test radiator and cooling system
- Blow molded case keeps tools organized and easy to carry
- Easy testing of high pressure cooling systems
- Gauge tests pressure ranges from 0 - 35lbs
- Color coded dial gauge allows easy and accurate testing of higher pressure cooling systems

Set includes: 1- Temperature Gauge, 1- Pressure Testing Pump with Gauge, 1- Adapter - GM (Cadillac), 1- Adapter - Benz, Ford, GM (Buick), Jeep, 1- Adapter - Peugeot, Mitsubishi, Nissan, Mazda, Toyota, Subaru, Infiniti, Geo, 1-Suzuki, Isuzu, Lexus, 1- Adapter - Honda, Toyota, Suzuki, Mitsubishi, 1- Adapter - Opel, VW, Ford, BMW245, Saab, Jaguar, 1- Adapter - Volvo, Saab, Audi, Citron, Renault, Fiat, Peugeot, Alfa, Jeep, 1- Adapter - New VW, 1- Adapter - VW T4, New Audi A4, A5, A6, BMW345, 1- Adapter - BMW, 1- Adapter - Audi, VW, 1- Adapter - Ford, International, GM, Rover, 1- Adapter - Benz, 1- Universal Adapter.

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# HICKOK WAEKON

QUALITY • SERVICE • INNOVATION • VALUE



#### WAE62968 Heavy Duty Cooling System Test and Adapter Kit

- One piece all aluminum adapters that last a lifetime
- Quick disconnect hook-up design minimizes set up time
- Uses shop air to maintain constant system pressure
- Lifetime Warranty on adapters

## COOLING SYSTEMS

### Cooling System Testers

**Stant**



**STN12270  
Cooling System  
and Pressure Cap Tester**

- Allows you to test today's car's higher pressure cooling systems and pressure caps up to 30 lbs.
- The gauge includes new cap testing pressure ranges of 17-19 lbs., 20 lbs., and 28-30 lbs.
- The larger color coded dial makes it easy to accurately test these higher pressure caps and systems
- Also includes a pressure release bar that, when turned clockwise, releases pressure buildup before removing the head from the neck

Includes: (1) 12559 spacer to drop in 1" deep filler necks for testing; (1) 12552 cap adapter to check standard "A" size caps, and a complete easy to use instruction manual.

**STN12450  
Truck Radiator Adapter Set**

- Includes 2 solid die-cast chrome plated cap and radiator adapters
- (1) 7/8" plug #12451 (A 450 1)
- Fits all popular trucks with the larger diameter (2-11/16" O.D "B" size) filler neck



**REDLINE**  
DETECTION.COM  
THE WORLD'S BEST SELLING DIAGNOSTIC LEAK DETECTION



**RDL95-0700  
Universal Cooling System Test Kit**

- The true universal cooling system test kit
- Works on all passenger vehicles and light duty trucks
- Eliminates the need to buy costly adaptors for radiators
- Made from anodized brass, and high quality materials

Smart Fit universal cooling system test kit, is the one true universal adaptor set with cooling pump, Smart Fit eliminates the need to purchase unnecessary and overpriced cooling system test kits.



**RDL95-0750  
SmartFit Universal Radiator Adapter Set**

- Works on the radiators of every car or light truck
- The last radiator adapter you'll ever buy
- Works with any standard cooling system pressure pump
- Professional technician grade -anodized aluminum, brass, case
- Also available with pump (RDL 95-700)



**PBT70888  
UniTest Cooling System Pressure Tester Deluxe Kit**

- Patented inflatable bladder attaches to radiator or header tank for system testing
- NO system adapters required for cooling system pressure testing
- Fits bayonet and threaded filler necks on radiators or header tanks
- Universal attachment suits automotive, commercial, heavy duty, marine and motorcycle
- Includes radiator cap test adapters for testing 8 different radiator cap types

Fluid drain tube allows coolant to be returned to the coolant reservoir or safely collected in a container for recycling. Identifies cooling system pressure leaks. Pressure pump: 0-30 PSI gauge; bladder is cycle tested to over 1500 inflations. Suits neck diameters up to 45mm (threaded or bayonet).



## COOLING SYSTEMS

### Adapters



**ASSENMACHER  
SPECIALTY TOOLS**  
ASTTOOL.COM

#### ASSFZ1002 Cooling Adapter Set

- Applicable to many European vehicles
- Use with any standard slant-style pressure tester
- Carrying case included



This set contains the following adapters:  
BMW345, FZ22, FZ25, FZ31, FZ41 and M0349



### TANK ADAPTERS

Part #	Application	Threads
 <b>ASSFZ22</b>	Audi A8, 2001 S8, and 1975-1993 models with Male threads on exp. tank, Porsche 911 and Boxster, VW, Volvo trucks, Kenworth trucks	<b>M48x3mm threads on filler neck</b>
 <b>ASSFZ25</b>	BMW i3, BMW V8 Twin Turbo Intercooler Coolant Reservoir, Dodge, Ferrari 350, 450 and 550 series with threaded tank, Jeep, Land Rover Freelander, Mini, Saab, Sterling, Volvo passenger vehicles and trucks with threaded necks	<b>M47 x 3mm threads</b>
 <b>ASSFZ32A</b>	Buick Skylark, Cadillac Catera and Fleetwood, Chevrolet Cavalier, Dodge Ram, Cummins, Ford, Freightliner, International, Land Rover, Lincoln, Mercedes ML 320 and ML420, Mercury, Nissan Armada and Titan, Oldsmobile Aurora, Saturn LS	<b>M52 x 2.5mm buttress threads</b>
 <b>ASSFZ35A</b>	Buick, Cadillac, Chevrolet cars and SUVs, Dodge Turbodiesel, Ford, Freightliner, GMC SUVs, Jaguar, Land Rover, Oldsmobile, Pontiac, Saab 9-3, Saturn	<b>M52 x 2.5mm buttress threads</b>
 <b>ASSFZ36</b>	Buick, Cadillac, Chevrolet, Ford, Freightliner, GMC, International, Jaguar, Lincoln, Mercedes ML320 and ML430, Mercury, Nissan, Oldsmobile, Pontiac, Saturn, Sterling	<b>M52 x 2.5mm buttress threads</b>
 <b>ASSFZ41</b>	Audi, Lamborghini Gallardo, Porsche 911 and Cayenne, VW	<b>M63 x 3mm buttress threads</b>
 <b>ASSFZ47</b>	Ford, Land Rover LR2, Mazda, Volvo	<b>M49 x 2.5 buttress threads</b>
 <b>ASSFZ55</b>	Dodge Sprinter Van	<b>M46 x 2.5mm buttress threads</b>
 <b>ASSFZ138</b>	ATV, Marine, Motorcycle, Chevrolet, Chrysler, GMC, Honda, Isuzu, Lexus, Mazda, Mitsubishi, Scion, Subaru, Toyota	
 <b>ASSFZ148</b>	Lexus LS 460, Lotus Elise, Scion tC and xB, Toyota	<b>M34 x 3mm buttress threads</b>
 <b>ASSBMW345</b>	BMW - 323i, 325i, 328i, 330xi, 540i, 740i, 745i, X3, X5, Z4, Z8 Land Rover - Discovery and Range Rover	<b>M51 x 4mm Buttress threads</b>
 <b>ASSBMW350</b>	BMW - 128, 135, 320, 323, 325, 328, 330, 335, 525, 528, 530, 535, 545, 550, 640, 645, 650, 750, X3, X4, X5, Z4	<b>M52 x 3mm buttress threads</b>
 <b>ASSM0349</b>	Mercedes	<b>M62 x 4mm buttress threads</b>

## COOLING SYSTEMS

### Adapters



#### CTA7055

##### 6 Piece. Radiator Pressure Tester Adapter Kit - Euro

- Set of 6 Radiator Pressure Tester Adapters to use with CTA #7050
- Use on most European vehicles
- Tests automotive pressurized cooling systems up to 30 PSI
- All metal construction
- Kit includes CTA#: 7093, 7094, 7097, 7098, 7101, 7119
- Packed in blow-mold case



#### MITMV4508

##### Universal Radiator Adapter

- Compact universal alternative to application specific adapters required for pressure testing
- Replaces more than 20 individual cooling system pressure test adapters for cars, vans, light and heavy-duty trucks
- Patent-pending cam mechanism ensures an air-tight seal with radiator and coolant bottle necks
- Compatible with Stant-style cooling system pressure pumps
- Includes Universal Radiator Test Adapter (1-piece)



#### STN12026

##### Engine Cooling System Tester Adapter

- Required to test cooling systems on late model GM "N" body cars, Saturn and full size Ford cars, as well as some IHC and Kenworth medium and heavy duty trucks
- Thread specifications: M52 x 2.5



#### STN12025

##### Cooling System Adapter 31MM ID

- Adapter is required to test all small diameter (31 mm I.D., 10mm deep) cooling system filler neck applications
- Applications: Acura 2004-1991, Chevrolet 2001-1998, Dodge 1994-92, Eagle 1996-92, Geo 1997-93, Honda 2004-1992, Isuzu 2003-1996, Lexus 2004-1990, Mitsubishi 2004-1992, Plymouth 1994-92, Suzuki 2004-1989, Toyota 2004-1990.



#### STN12024

##### Radiator Cap/Cooling System Tester Adapter, 44mm

- Required to test small diameter (44mm O.D.) radiator caps and cooling systems as used on many late model Toyota and Lexus cars



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#### STN12450

##### Truck Radiator Adapter Set

- Includes 2 solid die-cast chrome plated cap and radiator adapters
- (1) 7/8" plug #12451 (A 450 1)
- Fits all popular trucks with the larger diameter (2-11/16" O.D "B" size) filler neck



#### STN12042

##### 64mm Volvo Truck System Adapter

- Threaded cooling system testing adapter for use on most Volvo medium and heavy trucks



#### STN12036

##### System Testing Adapter for VW/ Audi

- Threaded cooling system testing adapter for use on many late model Audi and Volkswagen cars. Fits the same applications as the Stant 10249 pressure cap.



#### STN12034

##### Ford Adapter for 12270 Cooling System

- Adapter is used to test the cooling systems on the 1995-98 Ford Contour and Mercury Mystique, and the 2004-00 Ford Focus
- Works with 12270 Stant Cooling System Tester



#### STN12016

##### 48MM Truck System Adapter

- Required to fit late model Audi, Porsche & VW cooling systems with threaded filler necks
- Works With 12270 Stant Cooling System Tester
- Thread specifications M 48 x 3
- Professional quality



#### STN12032

##### System Tester Adapter For 2000 MALIBU



#### STN12029

##### Ford/GM/Saturn Threaded Cap Adapter



#### STN12552

##### Radiator Cap Tester Adapter



#### STN12027

##### 32mm ID Filler Adapter PTTA2

32mm ID 16mm deep



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## COOLING SYSTEMS

### Cooling System Refillers



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#### CTA7088

##### Coolant Filling Kit with Universal Adapter

- Air bleeder line prevents bubbles and allows smooth flow
- 4 adapters fit most American, Japanese, and Korean cars
- Brass flow valve
- Clear plastic allows for easy fluid viewing
- Adapter 7082 converts pressure tester adapters to filling adapters

Refill and top off cooling systems quickly and easily during bleeding process. Filler Cone features brass flow valve, air bleeder line and built-in handles.



#### LIS24970

##### Spill Free Funnel

- New Clear Funnel allows a quick visual check of the coolant from across the shop
- Colored adapters for quick identification
- Comes with a lid to keep contaminants out as well as store the caps and adapters
- Eliminates trapped air pockets which usually cause erratic cooling system and heater performance. It controls the proper amount of coolant entering system and enables unattended filling of the cooling system
- Five radiator adapters and five caps to fit most cars, pickups, trucks and many farm tractors including Audi, VW and Porsche overflow tanks with threaded caps



#### LIS19342

##### Multi-Application Oil Funnel

- Helps eliminate oil spills when refilling crankcases, especially those with baffle valve covers
- The 1.6 qt. translucent funnel comes with seven different color-coded adapters and a 45° elbow to work on many applications and save valuable storage space
- Tethered lid and cap keep the funnel clean
- Use spout only as a standard funnel
- The adapters fit crankcases securely

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#### LIS24680

##### Spill Free Funnel

Includes adapter for use with threaded caps on Ford surge tanks, straight extension and an additional 45° elbow for hard-to-reach applications. Five adapters fit most domestic and import cars and light trucks. Includes threaded cap and adapter for newer GM "threaded style" radiator openings.

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#### MITMV4533

##### Cooling System AirVac Kit

- Universal cooling system adapter replaces more than 20 individual adapters for cars, vans, light truck
- Eliminates airlocks in vehicles cooling systems
- Check for leaks while system is under vacuum
- Patent-pending adapter cam mechanism ensures an air-tight seal with radiator and coolant bottle necks
- Quickly refills system without trapping air that can cause overheating

Includes: Universal cooling system adapter with diaphragm gauge, brass flow control valve, and quick connect coupler, Venturi vacuum generator with muffler, Coolant refill hose with inlet screen, Custom-molded case, and User manual (English, Spanish, French)

## COOLING SYSTEMS

### Cooling System Refillers



#### OTC6976

##### Cooling System Refilling Gun

- Eliminates the need for system bleeding
- Utilizes deep vacuum technology to eliminate airlocks during cooling system refilling
- Universal attachment to most radiator and header tanks
- Integrated vacuum gauge automatically tests cooling system for leaks
- Small and large rubber cones to suit both passenger and commercial vehicles; no additional adapters needed



#### UVU550000

##### Airlift Cooling System Refiller

- Eliminate airlocks in vehicle cooling systems
- OEM approved worldwide
- Refills the entire cooling system including the Heater Core
- Eliminate time consuming bleeding and purging
- Checks for leaks while under vacuum

Kit includes: Venturi connector with hose; fill hose with filter; (4) sizes of rubber adapters; universal cone adapter and storage case.



#### UVU550500HD

##### Heavy Duty Airlift II

- Eliminates airlocks during coolant refills
- Extra long refill hose designed for Heavy Duty trucks
- Streamline design...no switching hoses
- Reinforced glass-filled nylon construction
- Universal cone adapter to accommodate all heavy duty vehicles

#### UVU550500

##### AirLift II Economy Refiller



#### KT170706

##### Air Lift

##### Cooling System Refiller

- Cooling system vacuum purge & refill kit
- To pump radiator and cooling system liquids out of reservoirs
- Use vacuum to fill with new coolant into radiator
- Kit contains: Main body with gauge (-1 -0 bar, -76 -0 cmHg); Vacuum Pump; (3) Rubber Buses (OD 35, 39 & 44mm); Coolant Hose

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### Cooling System Flush



#### OTC6043

##### "Blast-Vac" Multipurpose Cleaning Gun

- Perfectly suited for quick and efficient cooling system flushing
- Also usable in washing engines and even shop floors
- Two simple connections: one to shop air and one to a typical water faucet
- Creates a unique vortex air/water blast for powerful cleaning applications
- The tool can also be used to vacuum by turning the venturi inside the gun in the opposite direction; air flow is reversed to create a strong vacuum



#### THX356

##### Cooling Systems Backflush Tool

- Provides the technician with an easy way to flush the heater core
- 1/2", 5/8" and 3/4" inches hose size fittings
- Connects by using a normal garden hose
- Made of non-corrosive aluminum



## COOLING SYSTEMS

### Cooling System Dyes



#### UVUB483906

##### Radiator Coolant Dye

- Specifically designed for standard glycol coolants (green)
- Convenient individual application bottles, 6 Bottles (1 oz./30 ml)
- Works with most UV lights
- Dye installed stickers included
- Pinpoint leaks in cooling systems, including Radiator, Hoses, Fittings, Water Pumps and Head Gaskets

UView Ultraviolet Systems Inc. is the worldwide leader in the automotive aftermarket, since we first started tracking leaks in automotive air conditioning systems in 1996. Today, UView is globally recognized for quality and innovations. This is designed to detect leaks in cooling systems that use standard glycol based coolant (green). Be the first customer to share their experience with this item.

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#### TRATP39000601

##### Engine Coolant Dye - 1oz.

- Case of (6) 1 oz. bottles for single billable servicing
- Services either 1 vehicle's radiator coolant system or 60 gallons of water per 1 oz bottle
- Finds leaks in radiators, hoses, water pumps and fittings
- Fluorescent color - green

Leak detection dye for all engine coolants and auto body leak checks. Works with any leak detection inspection lamp.

### Refractometers



#### ROB75240

##### Coolant and Battery Refractometer

- Used for measuring the freezing point of either propylene or ethylene glycol based cooling systems
- Used for checking the strength of electrolyte solution batteries
- This precision instrument features high-quality optics with ultra smooth focusing
- Scale range: 32° F to -60° F



#### MLK727090

##### Ad-Blue Refractometer

- Ad-Blue fluid scale
- Also tests radiator coolant, windshield washer fluid, and battery acid
- Made in Germany

### Antifreeze Testers



#### CO0311519

##### CoolTrak® Coolant Test Strip - 50 Per Bottle

- A fast, easy and reliable way to test engine coolant effectiveness
- With one simple dip, you can determine an engine's protection against freeze-up, boil over and acid buildup with a highly effective pH test
- CoolTrak® has been proven effective with the US military and has been approved for use by the U.S. Postal Service
- Test works with both ethylene and propylene glycol-based coolants

## COOLING SYSTEMS

### Antifreeze Testers



#### EZRS102

##### Antifreeze Hydrometer

- Tests ethylene glycol solutions
- Temperature compensating
- Obtain direct, accurate readings
- Wide range: +32° F to -60° F
- Fahrenheit and Celsius scales



#### KTI70211

##### Antifreeze Tester

- Hydrometer immediately and accurately tests strength of all permanent solutions (ethylene glycol), with engine hot or cold, and includes temperature adjustment scale for accurate interpretation of mixture strength
- Assists in preventing winter freeze up and summer boil-over
- Two embedded scales show freeze point of radiator solution and boiling point of summer coolant
- +32° F thru -45° F



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#### THX106

##### Cold-Chek® Disc-Type Anti-Freeze Tester

- Large professional-size (16-1/4") tester is accurate at all temperatures
- Tests coolant, hot or cold
- Easy to read discs are magnified by convex design of the clear SAN plastic barrel
- Protection scale is printed in both Celsius and Fahrenheit
- Beyond 70% anti-freeze, cooling and corrosion effectiveness is reduced
- One-piece bulb and neoprene dip tube

This large professional-size tester has a special feature, the 6th disc shows overprotection and a loss of cooling efficiency. Made with the durability to last!

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#### THX107

##### Cold-Chek® Propylene Glycol Anti-Freeze and Coolant Tester

- Professional 16-1/4 disc-type tester is used to test propylene glycol based antifreeze in automotive radiators and fresh-water systems in RV's and boats
- Number of floating discs measures degree of protection at any temperature, discs are temperature compensated
- Readings in Celsius and Fahrenheit

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#### THX100

##### Cold-Chek® Propylene Glycol Anti-Freeze and Coolant Tester

- For testing propylene glycol-based antifreeze in automotive radiators and freshwater system in RV's and boats
- Accurate to -50° F
- Ball float to show freeze protection
- Tests coolant hot or cold
- Pocket protector

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#### THX101

##### Cold-Chek® Anti-Freeze Coolant Tester

- Tests to -34° - indicates optimal 50/50 mixture
- Original ball-type, specific gravity tester
- Special 6th ball shows overprotection and loss of cooling protection
- Number floating balls measures degree of protection
- Temperature compensating for testing with engine hot or cold
- Extra long neoprene dip tube; Complete with vinyl pocket

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#### THX102

##### Cold-Chek® Professional Anti-Freeze Coolant Tester

- Sixth Ball shows overprotection with rugged safety shield
- Thexton's professional model and the most popular Cold-Chek®
- The 102 has a rugged, chrome plated safety shield of ABS plastic
- Also used to test Dex-Cool®

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## COOLING SYSTEMS

### Hose Tools & Pliers

# Astro



#### AST9406

##### 7 Piece Hose Clamp Plier Set

- Allows for extra reach, removal and locking of clamps into open position
- Allows for removal of plastic and/or metal self-tightening hose clamps with diameters of 11/16" -2-1/2" (18mm-54mm)
- Precision clamp on end of flexible cable allows for extended reach where other models cannot reach
- Pliers can be locked, freeing up your hands and making your job easier & faster
- Rubber dipped handle
- Pliers have a lifetime warranty

Set Includes:

- Flat Band Hose Clamp Pliers (AST9406G)
- Angled Flat Band Hose Clamp Pliers (AST9406D)
- Hose Remover Pliers (AST9406E)
- Swivel Jaw Hose Clamp Pliers ("+" Slot) (AST9406B)
- Swivel Jaw Hose Clamp Pliers (AST9406C)

#### AST9409A

##### Hose Clamp Pliers

- Allows for extra reach, removal and locking of clamps into open position
- Allows for removal of plastic and/or metal self-tightening hose clamps with diameters of 11/16" - 2-1/2" (18mm-54mm)
- Precision clamp on end of flexible cable allows for extended reach where other models cannot reach
- Pliers can be locked, freeing up your hands
- Rubber dipped handle



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#### AST94093

##### Multi-Cable Hose Clamp Pliers

- Features 3 cables and 4 different jaw types and sizes for use on most automotive tension hose clamps
- Includes the standard jaws from Astro's 9409A, extra large and small jaws, and Clic-R clamp jaws.
- Easily switch out cable and jaw designs for different applications



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# Astro

#### AST9502

##### 2-Piece Hose Removal Hook Set

- Two hook designs to fit between various fittings and hoses
- Tackle difficult to remove seals, heater and radiator hoses, transmission lines, and many other fixtures
- Works great when paired with Astro's 9409A Hose Clamp Pliers
- Durable Chromoly Vanadium construction
- Length: 210mm V Type and U Type



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# SUNEX

TOOLS



#### SUN3720

##### Locking Flexible Hose Clamp Pliers

- Get into hard to reach areas to remove hose clamps with the 24" flexible neck cable
- Extended clamp on end allows extension that other models do not
- Locking mechanism allows for hands free use
- Remove plastic and metal self-tightening 11/16" -2-1/2" diameter hose clamps



# LANG

TOOLS

Professional Tools For 4 Generations



Made in America



#### KAS1500

##### 3 Piece Hose Pinch Off Pliers Set

- Contains all three pliers, small, medium & large
- Self locking for firm grip
- 15 degree offset for hard to reach places
- Swivel jaw for positive pressure
- Comes in a plastic pouch
- 1 year warranty

**KAS1480** - Large **KAS1470** - Medium **KAS1460** - Small

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## COOLING SYSTEMS

### Hose Tools & Pliers



**KDT82115  
Hose Clamp Cable Pliers**

- For flat band hose clamps with locking mechanism
- Coated handles

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**KDT3975  
Corbin Style Hose Clamp Pliers**

- Dual dipped grip for comfort and force
- For Corbin (wire) style hose clamps
- Tips trap and hold clamp and swivel for multiple angle access



**Hose Clamp Pliers**

- Improved strength
- Easier to use locking feature
- Dual dipped grip for comfort and force



**KDT3976  
Straight Hose Clamp Pliers**

**KDT3977  
Angled Straight Hose Clamp Pliers**



**KDT3978  
Heavy Duty Large Hose Clamp Pliers**

- Easier to use locking feature
- Dual dipped grip for comfort and force
- For flat ear style hose clamps
- Tips trap and hold clamp and swivel for multiple angle access

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**KDT145  
Radiator Hose Pinch-Off Pliers**

- Tool can be used to pinch off some emission system hoses
- Pliers include automatic locking ratchet
- Do not use on wire-reinforced hose

These pinch-off pliers eliminate the need to drain cooling system when servicing. Pliers squeeze hoses shut, and jaws swivel for parallel clamping.



**KTI71100  
Hose Pinch Off Pliers**

- Eliminates the need to drain systems when servicing coding systems
- Pliers squeeze heater or radiator hoses shut and jaws swivel for parallel clamping
- Automatic locking ratchet
- May also be used to pinch off vacuum lines and fuel lines

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**KTI71103  
2 Piece Flexible Line Clamp Set**

- Squeeze heater, radiator, vacuum or any flexible hoses to assist with repairs or diagnosing problems
- Clamps lock in place
- Set includes both large and small clamps



**Flexible Line Clamp Pliers  
KTI71105 - Small KTI71106 - Large**

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**LIS17000  
17" Long Reach Hose Clamp Pliers**

- Cross-cut tip grips most hose clamps from multiple angles
- Ratcheting lock mechanism holds the clamp in an open position for hands-free use
- Dual material grips for comfort
- Provides extra long reach

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**LIS17370  
35 Degree Hose Plier**

- Provides an extra long reach and 35° angled tips for hard-to-reach hoses
- Cross-cut tip grips most hose clamps from multiple angles
- Ratcheting lock mechanism holds the clamp in an open position for hands-free use
- Dual material grips for comfort

## COOLING SYSTEMS

### Hose Tools & Pliers



#### LIS23000

##### Hose Pincher

- Clamps and holds hoses up to 3/4" I.D.
- Angled jaws close to create a complete seal every time
- Jaws are offset for hard-to-reach areas
- The handles lock firmly to hold the jaws in a closed position
- Made if glass-filled nylon for extra strength

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#### LIS17100

##### Adjustable Hose Clamp Plier

- This tool removes and installs flat band hose clamps used on heater and radiator hoses
- Tips screw in and out to fit all clamp sizes
- Ratcheting lock mechanism holds the clamp in an open position for easy removal and installation
- Tips can be switched to accommodate different applications
- Offset jaws for access in hard-to-reach areas

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#### LIS37300

##### Fuel and AC Disconnect Pliers

- Unique design provides extra leverage when disconnecting quick connect coupling air conditioning and fuel lines
- The pliers' forks have different sized openings so the tool can be turned around to fit single or two-step collar designed connector lines
- Can also be used to reconnect stubborn lines or connections that are in hard-to-reach areas
- Use with 5/16", 3/8" or 1/2" adapters from the Lisle 37000 or 39400 disconnect tool sets
- Also works with other fuel and A/C line disconnect tools

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#### LIS44480

##### Hose Clamp Vise - 3-5/8" Long with 2-1/8" Opening

- Vise opens to 2-1/8"
- Relieve clamp spring pressure in very tight spots
- Tool can be left on during service
- Tighten knurled knob by hand or with a 1/4" drive ratchet
- Not recommended for 3/8" steel

#### LIS44500

##### Hose Clamp Vise - 3" long; 1-1/2" Opening

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#### Hose Remover Sets

- Contains long and short, standard and offset hooks
- Can be used to remove hoses, moldings, clips, clamps, seals, o-rings, cotter pins, gaskets, etc.
- Handles are dual durometer material for comfort and grip
- Rods are heat-treated for strength and plated for durability

#### LIS80380 - 5 Piece

#### LIS80200 - 4 Piece

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#### Hose Removers

- Can be used to remove hoses, moldings, clips, clamps, seals, o-rings, cotter pins, gaskets, etc.
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Product #	Type
LIS80210	Short Hose Remover
LIS80220	Long Hose Remover
LIS80230	Short Offset Hose Remover
LIS80290	Short Double Offset Hose Remover
LIS62200	Heater Hose Coupler Remover

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#### KAS854

##### 2 Piece HD Hose Removal/Installer Set

- Set includes straight and bent profile removers
- Rounded profile reduces gouging and puncturing of hoses
- For use on various hoses-radiator, heater, turbo, intake ducts
- Useful in the industrial, plumbing & HVAC markets
- USA Made

## COOLING SYSTEMS

### Hose Tools & Pliers



#### MAY28690 RIGIFLEX Cable Operated Hose Clamp Pliers

- Ratcheting hose clamp plier
- Flexes and holds to any desired position
- Reaches into tight places with little effort
- Easy to replace cable
- Lifetime warranty



#### MAY28620 90° Locking Hose Clamp Plier

- Works on spring clamps ranging from 3/4" thru 2-3/4"
- Heavy duty construction - Eliminates the need for cables and repair kits
- Patented ratcheting - Provides users with infinite locking positions
- Double hinged locking mechanism - Adds leverage for less user fatigue
- Locking lever - Features fine adjustment to prevent damage to plastic hose clamps
- Lifetime warranty

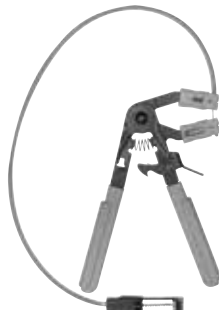
#### MAY28680 Professional Hose Clamp Pliers With Flex Cable

- Unique jaw design fits clamps up to 2" (51mm)
- Extra-heavy duty 5/64" (2mm) cable
- Bi-material grips with snap feature for compact storage
- Ratchet lock with slide guide
- Pivoting jaw piece



#### MAY45680 Mayhew Select Hose Clamp Pliers

- Unique jaw design fits clamps up to 2" (51mm)
- Extra- Heavy Duty 5/64" (2mm) cable
- Bi-material grips with snap feature
- Easy to replace cable
- Made in France



#### OTC4525 Flexible Hose Clamp Pliers

- Allows technician to access the flat-type hose clamps located in hard-to-reach areas
- Locking mechanism to hold clamp in the open position, making removal and installation of clamp easier
- Heavy duty 24" cable flexes to almost any position
- Pliers is spring loaded to the open position



#### OTC4502 2 Piece Hose Clamp Plier Set

- Includes a cross slotted jaw pliers and a wide, flat band hose clamp pliers
- Services most ring-type or flat-band hose clamps
- Clamps are held open with a ratchet locking mechanism
- Jaws swivel to access hose clamps in any position



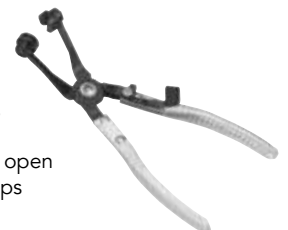
#### OTC4510 3 Piece Hose Pinch-off Pliers Set

- Shuts off flow through vacuum lines, fuel lines, coolant lines, etc.
- Cocking ratchet mechanism holds pivoting jaws tightly in place
- Heavy duty swivel jaws pivot to assure parallel pinching

Set includes: OTC4510-8 8" tool for small hoses and tight areas; OTC4510-10 10" tool for radiator and vacuum lines; OTC4510-12 12" tool for radiator and vacuum lines.

#### OTC4524 45 Degree Hose Clamp Pliers

- Jaws are bent at a 45 degree angle and tips swivel to allow easy access to confined areas
- Ratchet lock mechanism holds jaws open
- Works on most flat-band hose clamps



## COOLING SYSTEMS

### Hose Tools & Pliers



**OTC519157  
GM Heater Line  
Disconnect Tool**

- Works on 1991 and newer GM vehicles with 3.1L, 3.4L, 3100, 3400, and 3800 V6 engines
- Same as Kent-Moore J-38723



**OTC4521  
Hose Removal Tool**

- Unique tip easily fits between hose and fitting to break stubborn hoses loose
- Large handle provides a reliable grip on tool during hose removal
- Works on radiator hoses, heater hoses, transmission lines - any place a rubber hose is clamped to a fitting



**OTC8260  
6 Piece Hose Removal Set**

- Made of heat-treated, chrome steel with assorted tip shapes
- Ergonomic handle design fits properly in the hand, allowing for easier holding of the tool
- Can be used on upper and lower radiator hoses, clips, washers, gaskets and other items

Set includes: three 10", soft-handled tools and three 15", soft-handled tools, each with a hard end-cap.

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**OTC6046  
GM Heater Line  
Quick-Connect Release Tool**

- Specially designed for separating quick-connect fittings on heater lines of 1999-2004 Chevy and GMC C/K trucks
- Tool snaps around the hose and simultaneously depresses the locking tabs to disengage the fittings

Application: C/K Truck. The 0.75" heater lines coming from the I.P. have quick connect style fittings.



**SGT19780  
Hose Clamp Plier Set**

- 3 piece set to clamp fuel injection, brake, vacuum and cooling system hoses
- Smooth, rounded jaws prevent hose damage

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**SGT19750  
Hose Clamp Pliers Set**

- Includes one cross slotted jaw pliers and one wide flat band hose clamp pliers
- For most ring type and flat band type hose clamps
- Jaws rotate to access hose clamps from any angle and to provide better gripping action
- Ratcheting locking mechanism holds clamps in open position for easy removal and installation
- Steel construction with handle grips

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**VGP1773627  
8" Hose Clamp Plier**

- Wire shearing feature
- Dipped rubber grips
- Machined jaws for maximum strength
- VISE-GRIP Lifetime Guarantee



**LIS11420  
Hose Cutter**

- Cuts flexible hose up to 1-1/4"
- This hose cutter will clearly cut heater hoses, fuel lines, and other types of flexible hose up to 1-1/4"
- The stainless steel blade is reversible for double the life
- Plier is made of glass-filled nylon for strength

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## COOLING SYSTEMS

### Radiator Tools



**SCH91900  
Radiator Drain Plug Socket**

- This specialty socket has been designed to open and close most radiator drain plugs that have thumb wings
- In operation, this unique socket snaps on a 3/8" square drive extension allowing it to reach into confined areas
- 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

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**KTI75320  
4 Piece Radiator Disconnect Tool Set**

- Designed to completely fill the void in the connector to release the fastener
- 40° offset design to work around obstructions in tight spaces
- 4 sizes to depress clips from 5/8" to 1"
- Includes clips for use on Ford and GM vehicles

**KTI75321 - Ford Radiator Disconnect Tool**

**KTI75322 - GM Radiator Disconnect Tool**

**KTI75323 - Large Radiator Disconnect Tool**

**KTI75324 - X-Large Radiator Disconnect Tool**

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**FJC43658  
Radiator and Radiator Cap Pressure Test Kit**

- For use in testing radiators and radiator caps
- Confirms radiator and cooling system leaks
- Test radiator caps for proper operation

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**CTA7057  
10 Piece Radiator Pressure Tester Adapter Kit - US/Asian**

- Radiator Pressure Tester Adapters to use with CTA #7050
- Use on most US/Asian vehicles
- Tests automotive pressurized cooling systems up to 30 PSI
- All metal construction • Packed in blow-mold case

Includes: CTA7090, CTA7091, CTA7092, CTA7096, CTA7100, CTA7102, CTA7103, CTA7109, CTA7117 and CTA7118

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**CTA7050  
Radiator Pressure Tester Kit**

- Pump with gauge
- 12" hose and cap adapter
- 1/4" spacer washer
- 3 radiator adapters

Tests automotive pressurized cooling systems up to 30 PSI. Kit includes pump with gauge, 12" hose and cap adapter to check 3/4" deep filler necks, 1/4" Spacer Washer for testing 1" deep filler necks, plus 3 Radiator Adapters (#7090, #7091 and #7092).

**CTA7060  
Radiator Pressure Tester**

- Test cooling systems up to 30 PSI

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**CTA7045  
Radiator Cap Pliers**

- For quick and safe removal of all standard radiator caps

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## COOLING SYSTEMS

### Radiator Tools



#### Air Comb Filter and Radiator Cleaners

The Air Comb™ Filter Cleaner will thoroughly clean air filters, condensers and radiators from the inside out. The patent pending design focuses high-pressure and high-volume output shop air at a 90° angle to access the hardest-to-reach areas. The Air Comb™ Filter Cleaner is great for tube and cylindrical type air filters as well as radiators and AC condensers.



#### IPA8050

##### 12" Air Comb Filter and Radiator Cleaner

- 12" focused high-pressure output



#### IPA8051

##### 24" Air Comb Filter and Radiator Cleaner

- 24" focused high-pressure output



#### IPA8052

##### 36" Air Comb® Filter and Radiator Cleaner

- 5x the air volume



#### IPA8053

##### 48" Air Comb® Filter and Radiator Cleaner

- 5x the air volume

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#### LIS61420

##### Heavy-Duty Radiator Cap Wrench

- Works on most ISX Cummins, Paccar, Peterbilt, Kenworth, Freightliner and many other Class 8 truck radiators
- The wrench is double ended to work on 3 and 4 slot radiator caps
- A 3/8" square drive in the center of wrench can be used with a breaker bar for stubborn caps



#### THX473

##### Radiator Petcock Socket

- Molded plastic
- 1/4" drive
- Fits narrow wing plastic drain fittings

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#### PBT70801

##### Multi-Purpose Cleaning Gun

- High-Pressure, High-Flow cleaning in the palm of your hand
- Integrated air and water controls for easy use
- Delivers fast and efficient cooling system flushing and high flow water cleaning
- Multi-step nozzle suits most radiator and heater hoses
- Use for: Cooling system flushing, Engine bay washing, Car and truck washing, Floor washing or Air blow gun

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#### PBT70880

##### Cooling System Refilling Gun

- Utilizes deep vacuum technology to eliminate airlocks during cooling system refilling
- Integrated vacuum gauge automatically tests cooling system for leaks
- Small & large rubber cones to suit both passenger & commercial vehicles; no additional adapters needed
- Eliminates the need for system bleeding
- Integrated filling tap and vacuum check valve removes the need for interchanging hoses
- Universal attachment to most radiator and header tanks
- Quick release air supply locking trigger for easy use

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##### Cooling System Pressure Test Kits

- Connect adaptor and pump to quickly locate system leaks and defective pressure caps
- Relief valve with drain hose for controlled pressure release to prevent coolant spills
- Pressure pump manufactured from impact resistant glass reinforced polymer



#### PBT71510

##### OE Toyota and Lexus Cooling System Pressure Test Kit

- Kit contains adapters to attach pressure pump to cooling system on all Toyota passenger and light commercial vehicles
- Kit contains adaptors to test pressure caps on all Toyota passenger and light commercial vehicles

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## COOLING SYSTEMS

### Radiator Tools



**PBT71515**

**OE VW and Audi Cooling System Pressure Test Kit**

- Kit contains adaptors to attach pressure pump to cooling system on all VW & Audi passenger vehicles
- Kit contains adaptors to test pressure caps on all VW & Audi passenger vehicles

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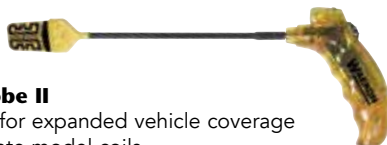
**PBT71520**

**OE Ford Cooling System tester Kit**

- Kit contains adaptors to attach pressure pump to cooling system on all Ford passenger and light commercial vehicles.
- Kit contains adaptors to test pressure caps on all Ford passenger and light commercial vehicles

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### Ignition Tools



**HIC765-2WA**

**Coil On Plug Quick Probe II**

- New variable sensitivity for expanded vehicle coverage
- Enhanced accuracy on late model coils with improved RF shielding
- Bright LED strobe indicates sufficient kV and green LED indicates arc duration
- This tool allows the technician to confirm COP coil circuit operation. 7" long probe

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**KASFM720A**

**Ford Ignition Module Wrench**

- Specifically designed 25° offset ratcheting dual-ended wrench containing a 7/32" hex (5.5mm), and T-20 Torx bit
- Allows for easy removal of Ford ignition module without removal or tampering of the distributor

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**LIS64650**

**Ford Ignition Module Wrench**

- For 7/32" hex retaining bolts on Ford ignition module
- May be used with 1/2" wrench

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**KDT104**

**Distributor Clamp Wrench 1/2" and 9/16"**

- Double-ended wrench for moving around obstructions
- Fits 1/2" and 9/16" lock nuts
- Use an adapter to join wrenches or attach the wrench to a 3/8" ratchet or extension

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**THX404**

**Adjustable Ignition Spark Tester**

- Tests for no-start conditions and for spark strength
- Adjustable gap allows for spark gap requirements from 0 to 40,000 volts
- Gauge background makes spark easy to see for accurate measurement • Includes safety shield
- Works on ignition systems from high energy electronic automotive systems to small engines by simulating the spark plug under compression load

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## ELECTRICAL SERVICE

### Top Dead Center



#### IPA7880

##### Standard TDC Indicator

- The Standard TDC Indicator enables a technician to accurately set a piston to top dead center (TDC)
- Remove spark plug, screw in the gauge and rotate the engine observing the radial marks on the sliding shaft and note the top piston stroke

DO NOT use on an engine that has an acute spark plug angle relative to the flat top of the piston, or you may bend the TDC shaft. Best used on HEMI type engines.

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#### IPA7886

##### Top Dead Center Indicator - Extended Model 10.5"

- The new extended TDC indicator allows a technician to accurately set any piston to top dead center in deep spark plug hole applications
- 1/8" graduation marks
- Installs as easy as a spark plug
- Made of 1144 steel with a stainless steel spring
- Lifetime warranty; Made in the U.S.A.



### Spark Plug Tools



#### CTA2030

##### 4 Piece Spark Plug Socket Set - Euro

- 12 point metric thin-wall sockets
- Features a swivel square-drive for hard to reach spark plugs
- Includes short 14 and 16mm and long 14 and 16mm
- Services many European and some domestic applications
- Packaged in blow mold case

#### CTA1420

##### Block-Head Bolt Repair Kit - 11.5mm x 1.5

- Fixes Head Bolt threads specifically designed for Honda, Toyota and Other Imports
- Longer thread inserts for maximum thread engagement
- Includes 1pc. HSS drill bit
- 1pc. STI tap
- 5pc. 1.5D solid inserts



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### Spark Plug Tools



#### CTA1061

##### Spark Plug Socket with Swivel - 14mm x 12 Pt

- 14mm thin-wall 12-point socket
- Features a swivel square-drive to access spark plugs
- Applications include: BMW N54, N55, N63, Benz E90 plus some Minis and Infinitis
- Rubber insert holds plug
- 3/8" square drive

#### CTA1730

##### Spark Plug Socket

- Spark plug socket
- 5/8" thin-wall
- 12 point • OAL: 6"
- Application: Chrysler
- Applications: Dodge 4.7L, V8 engines
- Precision made



#### CTA4329

##### 16mm Spark Plug Socket 12 Pt. with Swivel

- 16mm / 5/8" Spark plug socket with retaining spring and pivot joint
- Designed for Mercedes-Benz M112, M113, M137, M155, M166, M168, M169, M245, M271, M272, M273, M275, M902, M906 & BMW X6 applications.
- Also used for BMW C1, Kawasaki, Yamaha, Honda, Suzuki & Ducati Motorcycle applications
- Used with a 3/8" square drive



#### CTA7654

##### Spark Plug Socket 14mm with Long Extensions

- Swivel design required for access to recessed spark plugs on certain applications
- 14mm x 12 point double hex sock
- 15-20° max swivel range
- OAL: 8.7" (22cm) • 3/8" square drive



#### CTA7656

##### Spark Plug Socket 16mm with Long Extensions

- Swivel design required for access to recessed spark plugs on certain applications
- 16mm x 12 point double hex sock
- 15-20° max swivel range
- OAL: 8.7" (22cm) • 3/8" square drive



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## ELECTRICAL SERVICE

### Spark Plug Tools



#### LIS65600

##### Broken Plug Remover for Ford 5.4L

- Removes broken spark plugs from 2004 and newer Ford Triton 3 Valve engines.
- Set includes a unique porcelain pusher tool.
- Uses a tapered left-hand thread remover to pull the broken spark plug from the head.
- Porcelain pusher presses the porcelain into the tip of the broken plug without breaking the porcelain.
- Housed in a handy blow molded case.



#### HEL5523-18

##### 18-1.5mm Spark Plug Hole Kit

- Thread Repair Kit, for Spark Plugs, 18mm x 1.50, with Tap, Installation Tool and 24 Inserts



#### HEL5523-14

##### 14-1.25mm Spark Plug Hole Kit

- 14mm x 1.25 with Tap, Installation Tool and 30 Inserts



#### KT170750

##### Spark Plug Boot Pliers

- Insulated grips



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#### KT122219

##### 3/8" Drive Extra Deep Spark Plug Socket, 5/8"

- Extra deep (4-1/2") spark plug socket eases the placement or removal of plugs in deep recesses
- Heavy duty rubber insert grips plug without damaging insulation
- Knurled barrel for non-slip grip
- Features 3/4" external hex and black oxide finish



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#### 6 Point Spark Plug Sockets

- Features protective rubber insert and hex top for use in tight areas
- Manufactured with heat treated chrome vanadium steel



Part #	Description
KT122221	3/8" Drive 6 Point Spark Plug Socket, 5/8"
KT122227	3/8" Drive 6 Point Spark Plug Socket, 13/16"

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#### 3/8" Drive 6 Point

##### Flex Spark Plug Socket

- Features protective rubber insert and heat-treated chrome vanadium steel
- Flex joint enables tool to reach tight and confined areas



Part #	Description
KT122521	3/8" Dr 6 Point Flex Spark Plug Socket, 5/8"
KT122527	3/8" Dr 6 Point Flex Spark Plug Socket, 13/16"

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#### KT175201

##### Ford Triton Spark Plug Extractor

- Extract frozen and broken off spark plug sleeves
- For use on Ford Triton engines model year 2004 and later
- Specially machined guide works with extra-long tap and extractor
- Avoid potential engine damage
- Saves time by doing the job right the first time!



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#### KDT135

##### Spark Plug Terminal Plier

- Safely removes spark plug cables and prevent cable damage
- Pliers' handles and jaws are coated with a heavy-duty plastic for a sure grip



## ELECTRICAL SERVICE

### Spark Plug Tools

#### GEARWRENCH



##### KDT80601

#### 5 Piece Magnetic Spark Plug Socket Set

- Magnetic Insert Holds Plug for Removal and Installation
- Set contains (1) 5/8" Swivel Spark Plug Socket - Magnetic Plug 4" Length, (1) 5/8" Swivel Spark Socket - Magnetic 6" Length, (1) 5/8" Swivel Spark Plug Socket - Magnetic 11" Length, (1) 9/16" Spark Plug Socket - Magnetic 2.5" Length and (1) 9/16" Swivel Spark Plug Socket - Magnetic 6" Length.

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



##### KDT41740

#### 3 Piece 5/8" Magnetic Universal Spark Plug Service Kit

- Long reach magnetic swivel spark plug set in 4", 6", and 11" lengths
- Features magnetic core on each size
- Blow mold case
- Lifetime warranty



##### KDT730

#### 14mm and 18mm Spark Plug Opening Thread Chaser

- Cleans and restores spark plug threads with a 13/16" socket
- Rubber ring eliminates slipping

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##### LIS20200

#### Spark Plug Hole Thread Chaser

- Cleans threads in spark plug hole
- Use with 13/16" spark plug socket
- Double-ended for both 14mm and 18mm threads

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##### LIS63080

#### 14mm 12-Point Spark Plug Socket

- Thin wall with swivel
- Remove and replace spark plugs from narrow tubes
- Rubber insert holds the spark plug in the socket during removal and installation
- Use with 3/8" square drive

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



##### LIS26900

#### Spark Plug Wire Tester

- Quickly locate faulty plug wires
- No shock hazard
- Check spark plug wires without piercing the wires
- Light flashes indicating sound wire
- Skin-packed; Shipping wt. 3 oz.

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



##### LIS52990

#### Spark Plug Wire Removal Pliers

- Two pulling positions help make removing spark plug wires a safe and easy job
- Cushioned jaws
- Plastic handle grips help prevent shock
- Special shaped plastic handle grips give secure grip

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##### LIS51410

#### Offset Spark Plug Boot Removal Pliers

- Used to remove stubborn spark plug wires on GM 3.1L, 3.4L, 3.8L and Other Engines
- The 5/8" opening of the pliers properly fits spark plug wire boots to prevent damage to spark plug wires

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## ELECTRICAL SYSTEM

### Spark Plug Tools



#### LIS65000 Aluminum Head M14 x 1.25 Spark Plug Hole Repair Kit

- Replaces stripped spark plug threads on aluminum heads with 14mm spark plugs
- Installs a new spark plug thread insert in original thread location
- Set includes one-piece drill tap, long tap holder, short tap holder, insert installer, swedger and handle
- Includes three insert sizes: 5/16", 7/16" and 11/16"
- Kit comes in blow-molded case for storage

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#### LIS65700 Broken Plug Remover Kit Ford 3V

- Includes a unique Porcelain Puller Tool that snaps onto the terminal of a broken spark plug to pull the porcelain out
- Also includes a Porcelain Pusher for when the porcelain breaks off in the spark plug tip and a Self-Tapping Puller to remove the seized metal tip
- Comes in a blow molded plastic case for storage

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#### LIS65600 Broken Spark Plug Remover for Ford Triton 3 Valve Engines

- Removes broken spark plugs from 2004 and newer Ford Triton 3 Valve engines
- Set includes a unique porcelain pusher tool
- Uses a tapered left-hand thread remover to pull the broken spark plug from the head
- Porcelain pusher presses the porcelain into the tip of the broken plug without breaking the porcelain
- Housed in a handy blow molded case

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#### LIS20700 Coil-On Plug Spark Tester

- An easy way to check ignition systems with coil-on plugs
- Applications include Ford, Chrysler, Mitsubishi, Nissan and more
- Quickest way to test for no-start conditions
- High visibility white lettering makes it easy to read the gap measurement from 0 to 40k
- The standard plug wire tip and can be unscrewed so the tester can be used on small engines and some motorcycles

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#### MTN9200 Ford Spark Plug Insert Installer Set

- Alloy steel insert is a quality insert that will permanently mount in the spark plug hole and will not deteriorate or fall out
- Guide insures that tap and reamer are used in a straight line - no installing the spark plug crooked
- Comes with a DVD that explains job in detail - easy to follow instructions

Designed to aid in repairing Ford modular cylinder heads. A quality fool proof repair system that is fast, cost effective, and simple to use. Used to repair damaged threads from blown or deteriorated spark plugs in 4.6L, 5.4L, and Ford V10 Triton engines.

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#### MTN9201 Replacement Spark Plug Insert for Mountain Ford Cylinder Head Spark Plug Repair Kit

- Patented lip makes sure there is no loss of compression
- Permanent fix to damaged Cylinder threads
- Replacement insert for the MTN9200 repair kit
- Replacement spark plug insert for Ford engines
- Used to repair damaged cylinder heads with blown spark plugs

Replacement insert for the Ford Cylinder Repair Kit (MTN9200). Packaged 1 insert per kit, in poly bag with label. Alloy steel insert.

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## ELECTRICAL SERVICE

### Spark Plug Tools



#### MLK651001

##### Spark and Glow Plug Starter

- Useful tool to install the first pitch on common rail glow plugs
- Fits spark plugs as well
- Special anti-slip textured surface for ultimate grip
- Neon Green

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#### SGT18500

##### Air Operated Spark Plug Cleaning Tool

- Cleans any size spark plug quickly and effortlessly with internally controlled abrasive blasting
- Uses ordinary air line pressure
- Compressed air flows through special venturi mixing with abrasive to thoroughly clean spark plugs like new
- Lever valve on outside of unit allows for blasting with abrasive/air mix or pure air only

Recommended air line pressure is 70-80 PSI, maximum 90 PSI. Abrasive material is included and is silica free. The instructions are provided.

#### SGT18520

##### Spark Plug Cleaning Abrasive 1/4 lb.

- Silica free abrasive to use with the SGT18500

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#### OTC6918

##### Ford Spark Plug Remover Kit, Triton 3V

- Unique design helps prevent breakage by locking the plug porcelain core to the plug hex allowing it to turn as one complete unit
- Will also pull plug porcelain core if plug hex only is removed

Works on;

Ford 4.6L 3V V8 engines used in 05-08 Mustang, 06-08 Explorer.

Ford 5.4L 3V V8 engines used in 04-08 F-Series, 05-08 Expedition, 05-08 Lincoln Navigator.

Ford 6.8L 3V V10 engines used in 05-08 F-Series 250-350-450.



#### SUN8844

##### 4 Piece 3/8" Drive Universal Spark Plug Socket Set

- Fully polished chrome vanadium alloy steel for durability
- Universal joint design for easy access in confined areas
- Rubber inserts hold spark plug securely during installation and removal
- Fully guaranteed
- Includes 9/16" size

#### SUN8845

##### 7 Piece 3/8" Drive Spark Plug Socket Set

- Contains socket sizes that easily remove and install the spark plug sizes common to most vehicles



#### JSP79996

##### 2 Piece SteelmanPro Sharkplug Socket Set

- Includes 5/8" and 13/16" Sockets - 3/8" Drive
- Serrated edge for cutting and clearing obstructions
- Forged Chrome Vanadium construction
- Hex shaped end allows use of hand tools
- Knurled grip area and Black Oxide dipped cutting surface for added durability
- Lifetime Warranty

## ELECTRICAL SERVICE

### Alternator Tools



#### KDT2897

##### Alternator Pulley Puller and Installer Set

- Remove pressed-on alternator and power steering pulleys on late-model GM, Ford and Chrysler engines
- The threaded end installs late-model GM alternator and power steering pulleys, including Quad 4
- Reverse the jaws to pull the alternator internal bearing
- The puller fits some AMCS

Remove pressed-on alternator and power steering pulleys on late-model GM, Ford and Chrysler engines. The threaded end installs late-model GM alternator and power steering pulleys, including Quad 4. Reverse the jaws to pull the alternator internal bearing. The puller fits some AMCs. Will not work on 3.3L and 3.5L Chrysler engines. Includes: Puller Body, Jaw and Sleeve Assembly, Jackscrew, Button, Bearing and Washer, Puller Pin for Quad 4, Screw Installer for Quad 4, Puller Pin for GM 3.1, Screw Installer for Ford 4.6 and Screw Installer for All Others.

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#### AST7874

##### Pulley Puller and Installer Kit

- Removes pressed on alternator and power steering pulleys on late model GM, Ford and Chrysler engines
- Installs late model GM alternator and power steering pulleys including Quad 4
- Included in a blow molded case for easy storage and transport

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#### LIS57650

##### Alternator Decoupler Tool Set

- Five piece kit for removing and installing many alternator decoupler pulleys on the most popular vehicles in North America
- Kit works on both Overriding Alternator Decoupler (OAD) and One-Way Clutch (OWC) Pulleys
- Includes two pulley sockets and three shaft bits
- Tools can be used while the alternator is on or off the vehicle

## ELECTRICAL SERVICE

### Alternator Tools



#### **KAS5238** **Master Power Steering Pump/Alternator Pulley Remover Installer Kit**

- Designed to remove and install press-on-type belt driven accessory pulleys found on most vehicles
- Kit includes components necessary to remove and install pulleys on pumps with the common 3/8-16 threaded shaft
- Unique interchangeable component removes and installs pulleys on GM Quad 4, GM 3.1 L, and Ford 4.6L engines
- Designed to be used with either hand tools or an impact gun



vehicle | SPECIALTY



#### **OTC7185** **Alternator/Power Steering Pulley Puller**

- Works on pulleys with hub diameters of 1-1/8", 1-1/4", 1-5/16", and 1-3/8"
- With split collet design, the jaws grip the pulley flange for damage-free removal
- Mechanical screw power



The 7185 tool removes pulleys on most Chrysler, Ford, GM, and VW vehicles, including Saginaw, Thompson, and the Ford C2 power steering pumps; GM belt-driven vacuum pumps on both gas and diesel cars; and press-on water pump pulleys on GM 4-cylinder and V-6 engines.

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#### **OTC4681** **Power Steering Pump/Alternator Remover/Installer Tool**

- Reversible 2-in-1 tool removes and installs press-fit alternator and power steering pump pulleys
- Also removes and installs other press-fit pulleys with a hub diameter of 1-1/8" (28mm), 1-1/4" (32mm), 1-5/16" (34mm), or 1-3/8" (35mm)



#### **OTC4800** **Clutch Hub and Alternator Puller**

- Removes clutch on Big Twins with 3, 5, and 10 fingers
- Also works on Sportster transmission sprocket and clutch
- Pulls Motor Sprockets
- Pulls Alternator Covers



#### **OTC6617** **Alternator Pulley Service Kit**

- These tools hold the alternator shaft still so the pulley can be removed or installed
- A great time saving tool for the technician
- Decoupler tool assembly
- Covers most OAP/OAD alternators found in VW, Toyota, Honda, Chrysler, Chevrolet, Audi and BMW
- OTC's Limited Lifetime Warranty



Overrunning alternator pulley and Overrunning alternator decoupler pulley are designed to extend belt life and belt tensioner life. They also make for quieter and smoother accessory drive operation and reduce vibrations in the passenger compartment. These tools hold the alternator shaft still so the pulley can be removed or installed. A great time saving tool for the technician and the ability to provide a cost saving service for the vehicle owner.

## ELECTRICAL SERVICE

### Glow Plug Tools



#### KAS504

##### Glow Plug Harness Puller

- Prevents damage to harness and connector rail
- Removes and installs glow plug connectors
- Coated handle for comfort
- For Ford Truck applications
- To be used on Fords 2004 and newer, 6.0 Liter Diesel, E-Series, Low Cab Forward, F250-F350 Super Duty



#### MITMVA5605

##### Ford Glow Plug Adapter

- Navistar 7.3L power stroke



#### MITMVA5613

##### Diesel Glow Plug Adapter

- BMW 2.4L
- Deutz Most models
- GM W4, W7, W7HV (GMC Trucks)
- Lincoln 2.4L Mark VII, Continental (1984-85)
- Mercedes 250, 300, 300 Turbo, 350 Turbo
- Peugeot 2.3L and 2.5L (1978-86)
- Volkswagen 1.9L TDI



#### OTC6768

##### Ford 6.0L Glow Plug Remover and Installer Tool

- OTC offers a new selection of service tools for Aftermarket professionals
- Safely remove and install the glow plug harness on 2004 and newer Ford 6.0L Diesel engines



#### MLK600240

##### Glow Plug Drill Kit - M10x1

- Safely and effectively removes broken glow plugs in 5 easy steps
- Step #1: Break the electrode by turning counter clockwise with socket
- Step #2: Drill pitch away with special 3 fluted step drill
- Step #3: Tap the left thread inside the remaining glowplug piece
- Step #4: Extract the last pitches with thread tap and clean up the hole
- Step #5: Remove remaining portion of glow plug with extractor and slide hammer
- Set comes in a metal box with a straightforward picture manual

#### MLK600300

##### Glow Plug Electrode Extraction Kit

- Set of tools for the extraction of the glow plug tip
- Includes M10x1, M10x1,25, M9x1, M8x1
- Saves considerable amount of time versus disassemble of head



#### OTC6005A

##### Diesel Glow Plug Removal Tool

- Services diesels in popular 3/4 and 1/2 ton pickups
- Comes in plastic storage case

Tool includes 10 mm and 12 mm split nuts that provide added threads for pulling. One of three furnished spacers is installed under split nut to give a solid base for extraction without breaking glow plug off. Split nut is held with a wrench as the glow plug is unscrewed from the head.

## ELECTRICAL SERVICE

### Gap & Feeler Gauges

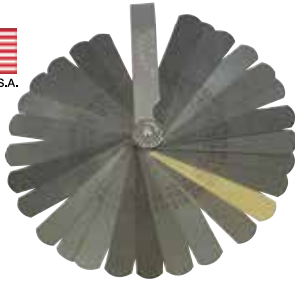


#### CTA3235 Spark Plug Gapper

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#### GW GEARWRENCH



#### KDT2223 Non Magnetic Spark Plug Gauge .006-.016"

- 6-blade gauge measures clearance in electronic ignition systems where non-magnetic blades are required
- Does not magnetize hard brass
- Blade length: 3-5/16"

#### KDT2062 Mini Spark Plug Gauge .010 to .035"



- Miniature 16-blade feeler gauge is only 1/4" wide x 1-3/4" long
- It measures clearances from 0.010 to 0.035" (0.254 to 0.889mm)

#### KDT2274 Metric Spark Plug Gauge .04 to 1.00mm



- 25-blade gauge measures clearances from 0.04 to 1 mm
- Blade length: 3"

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#### KDT164 Spark Plug Gap and Feeler Gauge Blade Type .010 in. to .045 in.

- 25-blade gauge measures clearances from 0.04 to 1mm
- Blade length: 3"



#### GW GEARWRENCH



#### KDT2424 Spark Plug Gauge 0.004" to 0.027"

- 22 etched blades cover the complete range of sizes from 0.004" to 0.027" (0.10 to 0.69mm)
- Blade length: 3-6/16"

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#### KDT162 Spark Plug Gauge Blade Type .002" to .025"

- Gauge measures clearances 0.002 to 0.025" (0.051 to 0.635mm)
- It includes a 2-1/2" rule and 15 blades
- Blade length: 3-5/16"



#### KDT161 Spark Plug Gauge Blade Type .0015" to .035"



- Gauge measures clearances from 0.0015 to 0.035" (0.038 to 0.889mm)
- It also includes one 0.010" brass blade to use with electronic ignitions
- Blade length: 3-5/16"



#### KTI73701 Spark Plug Gap Gauge Tool

- Measure in increments of one thousandth from .020 through .100



#### KTI73701-50 Spark Plug Gap Gauge Tool 50 Pack

- Package of 50

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#### KAS3074 Feeler Gauge Set for General Heavy Duty Truck Valve Adjustment

- Loose set of feeler gauge blades have a range of .008" to .030" to cover heavy-duty truck engine applications
- 3" blade, with 5/8" long 45° offset
- Used in the Feeler Gauge Set for Heavy-Duty Truck Valve Lash Adjustment (part no. 3079)



## ELECTRICAL SERVICE

### Gap & Feeler Gauges



**LIS68150**  
**Blade Type .004" to .027"**  
**Feeler Gauge**

- The blades are approximately 1/2" wide by 3 1/4" long
- Includes 22 steel blades
- .002" precision step for accurate settings



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**LIS67950**  
**Blade Type .002 to .025"**  
**Feeler Gauge**

- 15 steel blades; (1) 2" steel rule
- Precision blades ensure accurate measurements
- Blades are approximately 1/2" wide by 3-1/2" long



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**LIS68100**  
**Blade Type .0015 to .035 Deluxe Feeler Gauge**

- 31 blades. (1) brass blade .010"
- Precision blades ensure accurate measurements
- Blades are approximately 1/2" wide by 3-1/2" long

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**LIS67870**  
**Standard/High Energy**  
**Spark Plug Gauge and Gapper**

- Gauges and gaps all types of spark plugs from .020" to .100" (.50mm to 2.53mm)
- Tapered edge for gauging spark plugs
- Specially designed hole with flange adjusts side wire of plug without pressuring center electrode



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**LIS67800**  
**Spark Plug Gapper**

- For standard ignitions

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**LIS67900**  
**Wire Type .035 to .080"**  
**Spark Plug Gapper**

- For electric engines

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### Relay Tools



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**LIS60660**  
**Deluxe Relay Test Kit**

- Includes 8 jumpers to fit most popular relays; also includes test lead kit and relay puller pliers
- Jumpers have tabs for clamping and flat pads to place test leads on; no need to pierce wires or connect multiple jumper wires
- Also includes test lead kit for easily and securely connecting relay test jumpers to a multimeter
- Jumper wire may be used between common and open to close the relay circuit for testing and has a test port to easily check voltage; also provides access for a clamp-on amp meter
- Relay Puller Pliers easily remove electrical relays without damage to the relay or electrical box



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**LIS60610**  
**Relay Test Jumper Kit II**

- No need to pierce wires or connect multiple jumper wires
- Simply remove relay to be tested, insert correct jumper and insert relay into jumper
- Jumpers have tabs for clamping and flat pads to place test leads on

Set includes four jumpers to fit many popular relays on Honda, Nissan, Toyota, newer Ford and GM mini micro relays as well as International trucks.

## ELECTRICAL SERVICE

### Relay Tools



**SCH98110**  
**Adjustable Relay And Fusible Link Slip Joint Pliers**

- This unique tool has been developed for removal and installation of relay and fusible links on many later model automobiles
- 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

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### Bore Brushes



**IPA008081**  
**Brass Twisted Wire Bore Brush Set**

- Durable and abrasive bore brushes
- 6-piece set (8, 10, 12, 15, 17 and 19mm sizes)
- 1/4" hex shank
- Do Not Exceed 600 RMP
- These brushes are meant for push, pull and clockwise use only
- Never Turn Counterclockwise

Includes sizes: 8mm, 10mm, 12mm, 15mm, 17mm and 19mm. This set features the most common sizes for cleaning tubes, ports, bearings and other general wire brush applications. Twisted wire gives it extra strength to increase cleaning action. Each brush is fitted with a 1/4" hex shaft for use with a standard 1/4" driver.

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**IPA8080**  
**Steel Twisted Wire Bore Brush Set**

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### Hybrid Tools



**EZRH240**  
**5 Piece Hybrid Insulated Tool Set**

- All the tools are EVA approved and 1,000 volt tested. Cat 3
- The only insulated tools you need for Hybrid vehicle work
- Comes in a pouch
- Lifetime warranty

Tools include: 3/8" Drive Insulated Ratchet; 3/8" Drive x 6" Extension; 3/16" Slotted Insulated Screwdriver, 4" Blade; PH1 Phillips Insulated Screwdriver, 4" Blade; PH2 Phillips Insulated Screwdriver, 4" Blade.

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## ELECTRICAL SERVICE

### Fuse Tools



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#### ES1193

##### Diagnostic Relay Buddy 12/24 Pro Test Kit

- Tests both 12 and 24 Volt relays - 4 and 5 pin
- Diagnostic trouble codes indicate the cause of failure - 3 different codes
- Pro test kit includes 5 new test adapters for shielded and new relay types
- Cycles relay 10 times: Green Light if relay is good, red light if relay is bad plus one of 3 diagnostic codes
- Tester uses 12V or 24V power from the vehicle battery

Relay Buddy 12/24 is a quick go/no-go tester for the most common automotive relays. In kit form, #193 Relay Buddy 12/24 tests 5 different relay types. Relay Buddy 12/24 provides you with an indication of the general health and functioning of the relay switch contacts and coil. It will check the control side of the relay by applying a signal to the relay coil while it checks for proper functioning of the relay contacts. Relay Buddy operates the relay several times during each test session as it watches for consistency in every cycle.

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#### ES1304B

##### Fuse Buddy Tester - ATC Blade

- Clear display screen
- Has a .01 Amp resolution
- Its designed specifically for circuit testing
- Measures from 0 to 20 Amps

This tester connects directly into the fuse socket, measuring from 0 to 20 Amps. The removed fuse is plugged into the tester, maintaining circuit protection. Its designed specifically for circuit testing, plugs right into fuse socket.

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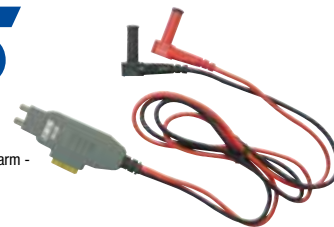
#### ES1306B

##### 30 Amp Fuse Buddy Tester - ATC Blade

- Great for motor blowers
- Original fuse is replaced in-line during testing, thereby maintaining circuit protection
- Great tool for electrical troubleshooting at the fuse box
- Can be used on all circuits up to 30 Amps
- Test range: 0 - 30 Amps ~ 48V DC ~ .1A resolution
- One year warranty



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#### ES1303B

##### Fuse Buddy DMM Adapter - ATC Blade

- The ends are molded into the shape of the fuse itself
- Uses existing fuse to maintain overload protection
- Convenient way to connect your DMM or hand held scope
- Connects DMM or Hand Held Scope directly into circuit - time saving product - fits snug into fuse socket for more accurate measurements

This unit adapts any DMM to plug into fuse socket for measuring circuit amperage draw. In addition, the circuit remains protected by the existing fuse - no danger of overloading. It's a convenient way to connect your DMM or hand held scope directly into the circuit - time saving product - fits snug into fuse socket for more accurate measurements.

#### ES1302M

##### Fuse Buddy Tester - Mini Fuse

- Designed specifically for circuit testing, Fuse Buddy plugs right into fuse socket - easy connection for circuit current testing
- Fuse Buddy will measure circuit amperage from 0 to 20 Amps - time saving design
- Unique design incorporates removed fuse to maintain circuit protection
- Test range 0 to 20 Amps • .01 Amp resolution

The Fuse Buddy Tester connects directly into the fuse socket, measuring from 0 to 20 Amps. Removed fuse is plugged into the Fuse Buddy maintaining circuit protection.

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#### ES1301M

##### Fuse Socket Digital Multi Meter Adapter for Mini Fuse

- Connects digital multimeter or hand held scope directly into circuit - time saving product
- Great way to measure current at fuse box - with fuse buddy there is no need to push test probes into fuse socket
- Uses existing fuse to maintain overload protection
- Fits snug into fuse socket for more accurate current measurements
- Can test circuit up to 10 amps

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## ELECTRICAL SERVICE

### Fuse Tools



#### ESI305M

##### 30 Amp Fuse Buddy Mini Tester

- Great for motor blowers
- Original fuse is replaced in-line during testing, thereby maintaining circuit protection
- Great tool for electrical troubleshooting at the fuse box
- Can be used on all circuits up to 30 Amps
- Test range: 0 – 30 Amps - 48V DC - .1A resolution
- One year warranty

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#### ESI308B

##### ATC Fuse Buddy Current Loop

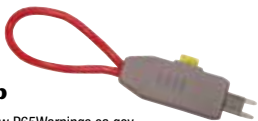
- Easy testing access, plugs right into fuse socket, no more hand made adapters
- Clamp your current probe over the loop to access the amperage draw through a fused circuit
- Testing range 0-30 Amps - Do not exceed 30 Amps
- Diagnose a variety of amperage draw problems including: Fuel Pumps, Battery Drains, Blower Motors, Shorts
- Also handy for installers needing to monitor circuit amperage limits

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#### ESI307M

##### Mini Fuse Buddy Current Loop

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#### KTI01671

##### Fuse Puller

- Pull auto, glass and mini fuses

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#### KTI01641

##### 12 Gauge Fuse Holder for ATO Fuse



#### KTI01661

##### 30 Amp Fuse Holder for AGC Fuse



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#### IPA8005

##### Fuse Saver® Standard Kit

- Dual-type fuse box connector with 10' cord eases the installation of radios, CD players, radar detectors and other accessory equipment
- Allows a technician to move around a vehicle shake testing wires while looking for the short
- Includes 3 resetting, color-matching breaker handles: 10, 15 & 20 amps



It allows you to move about the vehicle while checking for shorts in the electrical system. You can also disconnect and reconnect power to any circuit while work is being completed in that circuit without leaving the work area. Have you ever had a blown fuse and wished you had 30 new fuses so you could keep replacing the blown fuse until you found the short? Now the Fuse Saver is here. Just plug in the Fuse Saver's fuse box adapter into the blown fuse socket and troubleshoot the short. If the circuit overloads, just depress the breaker button on the top of the handle and you can continue working until you find the problem.



#### LIS69300

##### Master Relay and Fused Circuit Test Kit

- Makes testing relays or live circuits quick and easy from the relay or fuse box
- Use fixed relay test jumpers or create your own configuration
- Allows testing of relay configurations like VW, BMW and other European vehicles
- Includes a switch with stacking banana plugs, external power lead, extension wires, fused line for protection and terminal leads with spades
- Extend the capability of your digital multimeter

Includes eight jumpers to fit most popular relays. The jumpers have tabs for clamping and flat pads to place test leads on. Includes Test Lead Kit for easily and securely connecting Relay Test Jumpers to a multimeter. Terminal Leads with switch, fuse and power options provide easy access to check current or voltage on many fuses and relays used on vehicles today. Relay Puller Pliers easily remove electrical relays without damage to the relay or electrical box. Works without piercing wires.

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## ELECTRICAL SERVICE

### Fuse Assortments



#### ATO Fuses/ATO Glo Fuses

ATO fuses are color coded for amperage, have a recognizable body design, and standard footprint. ATO fuses snap into place without the need for special tools.

Part Number	Description	Qty
<b>KT104210</b>	5 Amp Fuses	5
<b>KT104212</b>	10 Amp Fuses	5
<b>KT104213</b>	15 Amp Fuses	5
<b>KT104214</b>	20 Amp Fuses	5
<b>KT104215</b>	25 Amp Fuses	5
<b>KT104216</b>	30 Amp Fuses	5

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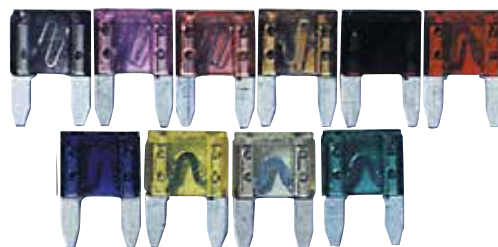
#### Glass Fuses

Although still used in older-model cars, glass fuses are found primarily in automotive accessory applications today. Glass fuses are widely used in electronic and electrical applications where proper fuse selection is critical to performance. Sold as a package of 5.

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Part Number	Description	Qty
<b>KT100811</b>	Fuses Glass 10 Amp	5
<b>KT100821</b>	Fuses Glass 15 Amp	5
<b>KT100831</b>	Fuses Glass 20 Amp	5
<b>KT100841</b>	Fuses Glass 25 Amp	5
<b>KT100851</b>	Fuses Glass 30 Amp	5
<b>KT100861</b>	Fuses Glass 5 Amp	5



#### Mini Fuses / Low Profile Mini Fuses / Glo Mini Fuses

The mini fuse style blade fuse is quickly becoming a new standard in the automotive industry. The mini fuse allows for more circuits to be fused in the same space as either an ATO or ATC style fuse. Mini fuses are offered in 2 to 30 amp current ratings.

Part Number	Description	Qty
<b>KT104199</b>	Fuses Mini 2 Amp	5
<b>KT104200</b>	Fuses Mini 3 Amp	5
<b>KT104201</b>	Fuses Mini 4 Amp	5
<b>KT104202</b>	Fuses Mini 5 Amp	5
<b>KT104203</b>	Fuses Mini 7.5 Amp	5
<b>KT104204</b>	Fuses Mini 10 Amp	5
<b>KT104205</b>	Fuses Mini 15 Amp	5
<b>KT104206</b>	Fuses Mini 20 Amp	5
<b>KT104207</b>	Fuses Mini 25 Amp	5
<b>KT104208</b>	Fuses Mini 30 Amp	5
<b>KT104270</b>	Low Profile Mini Fuse - 5 Amp	10
<b>KT104271</b>	Low Profile Mini Fuse - 7.5 Amp	10

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Maxi Fuses		
Part Number	Description	Qty
<b>KT104234</b>	Fuses Maxi 20 Amp	3
<b>KT104235</b>	Fuses Maxi 30 Amp	3
<b>KT104236</b>	Fuses Maxi 40 Amp	3
<b>KT104237</b>	Fuses Maxi 50 Amp	3
<b>KT104238</b>	Fuses Maxi 60 Amp	3

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## ELECTRICAL SERVICE

### Fuse Assortments



Jcase Fuses		
Part Number	Description	Qty
<b>KT104220</b>	Jcase Fuse - 20 Amp	5
<b>KT104221</b>	Jcase Fuse - 30 Amp	5
<b>KT104222</b>	Jcase Fuse - 40 Amp	5
<b>KT104224</b>	Jcase Fuse - 60 Amp	5

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Low Profile Jcase Fuses		
Part Number	Description	Qty
<b>KT104226</b>	Low Profile Jcase Fuse - 20 Amp	5
<b>KT104227</b>	Low Profile Jcase Fuse - 25 Amp	5
<b>KT104228</b>	Low Profile Jcase Fuse - 30 Amp	5
<b>KT104229</b>	Low Profile Jcase Fuse - 40 Amp	5

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vehicle | SPECIALTY

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#### KT100080 120-piece Auto Fuse Assortment (color-coded fuses)

120-piece assortment kit includes auto fuses sized from 5A to 30A.



Description	Qty:	Description	Qty:
5A Auto Fuses .....	20	20A Auto Fuses .....	20
10A Auto Fuses .....	20	25A Auto Fuses .....	20
15A Auto Fuses .....	20	30A Auto Fuses .....	20

#### KT100081 120-piece Mini Auto Fuse Assortment (color-coded fuses)

120-piece assortment kit includes mini fuses sized from 2A to 30A.



Description	Qty:	Description	Qty:
5A Auto Fuses .....	20	20A Auto Fuses .....	20
10A Auto Fuses .....	20	25A Auto Fuses .....	20
15A Auto Fuses .....	20	30A Auto Fuses .....	20

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#### KT100082 56-piece Maxi Auto Fuse Assortment (color-coded fuses)

56-piece assortment kit includes maxi fuses sized from 20A to 100A.

Description	Qty:	Description	Qty:
20A Auto Fuses .....	7	60A Auto Fuses .....	7
30A Auto Fuses .....	7	70A Auto Fuses .....	7
40A Auto Fuses .....	7	80A Auto Fuses .....	7
50A Auto Fuses .....	7	100A Auto Fuses .....	7

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## ELECTRICAL SERVICE

### Fuse Assortments



#### KT100070

##### 25-piece ATO Glo-Fuse Assortment

Finding open fuses is easy with these fuses that use LED technology to show that a fuse has opened - making them easy to spot in fuse panels tucked up under dark dashboards. Same color coding and amp ratings as the ATO fuses.

Includes 25 pieces of the top 5 sizes including 10A, 15A, 20A, 25A and 30A.

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Part Number	Description	Qty
KT104282	ATO Glo-Fuse 10 Amp	5
KT104283	ATO Glo-Fuse 15 Amp	5
KT104284	ATO Glo-Fuse 20 Amp	5
KT104285	ATO Glo-Fuse 25 Amp	5
KT104286	ATO Glo-Fuse 30 Amp	5



#### KT100068

##### 30-piece Low Profile Mini Fuse Assortment

This is a low profile version of the ATM mini fuses. Same color code and amp ratings. Includes 30 pieces of the top 6 sizes - 7.5A, 10A, 15A, 20A, 25A and 30A.

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Part Number	Description	Qty
KT104270	Low Profile Mini Fuse - 5 Amp	NA
KT104271	Low Profile Mini Fuse - 7.5 Amp	5
KT104272	Low Profile Mini Fuse - 10 Amp	5
KT104273	Low Profile Mini Fuse - 15 Amp	5
KT104274	Low Profile Mini Fuse - 20 Amp	5
KT104275	Low Profile Mini Fuse - 25 Amp	5
KT104276	Low Profile Mini Fuse - 30 Amp	5



#### KT100067

##### 95-piece AGC Glass Fuse Assortment

These glass tube fuses are used in older-model cars and found primarily in automotive accessory applications.

Includes 95 total pieces of 6 popular sizes of AGC, AGW, SFE and GBC type fuses.

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Part Number	Description	Qty
KT100811	10A glass fuse	10
KT100821	15A glass fuse	20
KT100831	20A glass fuse	20
KT100841	25A glass fuse	20
KT100851	30A glass fuse	20
KT100861	5A glass fuse	5



#### KT100069

##### 25-piece ATM Glo-Fuse Assortment

Finding open fuses is easy with these fuses that use LED technology to show that a fuse has opened - making them easy to spot in fuse panels tucked up under dark dashboards. Same color coding and amp ratings as the ATM mini blade fuses.

Includes 25 pieces of the top 5 sizes including 10A, 15A, 20A, 25A and 30A.

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Part Number	Description	Qty
KT104277	ATM Glo-Fuse 10 Amp	5
KT104278	ATM Glo-Fuse 15 Amp	5
KT104279	ATM Glo-Fuse 20 Amp	5
KT104280	ATM Glo-Fuse 25 Amp	5
KT104281	ATM Glo-Fuse 30 Amp	5

## ELECTRICAL SERVICE

### Terminal Tools



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#### SCH15600

##### Battery & Welding Cable End Crimper

- Compact & portable, service cables in vehicle
- Services 0 AWG cables and Up
- Heavy Duty frame with 5/8" (16mm) hex for wrench
- Durable fine thread crimping bolt with 9/16" (14mm) hex drive head
- Service auto, heavy duty, construction, marine, motorsports & welding cables



#### CTA7662

##### Universal Line Kit

- Comprehensive electrical & electrical testing kit for cars, trucks, tractors, ATVs, Motorcycles, boats & more
- Effortlessly analyze voltage, continuity, impedance and current
- Includes (2) 5K variable resistor potentiometers (2) alligator clips (4) acicular probes (2) LED stroboscopes (2) SRS Connectors (2) 1 to 2 connector (4) 1 to 1 extension cables and (2) probes
- Also includes (12) round male terminals w/ female banana sockets (24) flat male terminals w/ female banana sockets (24) flat female terminals w/ female banana sockets and (12) round female terminals w/ female banana sockets



#### IPA8040

##### Diamond-Grip Terminal Cleaners

- Pivoting handle design for added versatility
- Works for both male and female connectors on flat pin and spade style terminals
- Large, medium, and small size cleaners for the most common electrical connectors
- Highly-durable and abrasive coatings for cleaning small spade pin electrical connectors

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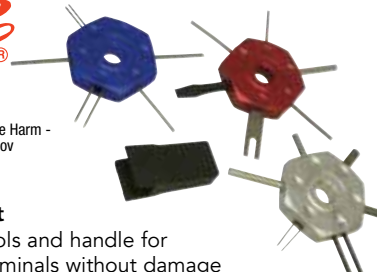
#### IPA8048

##### HD Fleet Technician's Electrical Terminal Maintenance Set

- Clean and restore male and female terminals on fleet connections
- Ensures proper diagnostic connectivity
- Connector types: Deutsch, Cannon, 7-way round pin, Bullet, Weather Pack, common ABS sensor and power connectors, trailer light connectors, common plow connections, etc.

Set includes: Large and Small Diamond-Tip Electrical Terminal Cleaners, 7-Way Round Pin Terminal Cleaners, ABS Sensor/Power Connector Cleaner Ten Diamond-Coated Micro Round Files, Trailer Light Bullet Connector Cleaner, 2 ml DeoxIT® Contact Cleaner and a premium quality holster with magnetic clasp.

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#### LIS57750

##### Wire Terminal Tool Kit

- Set of three terminal tools and handle for removing wires from terminals without damage
- Terminal tools work on conventional terminals as well as Pack-Con and Weather-Pack terminals found on many GM vehicles
- New blue terminal tool fits many Ford applications
- The handle slips over the probes to protect the technician's hand as well as provide extra leverage

#### LIS59600

##### Deutsch Terminal Tool

- Works on OEM electrical connectors used on trucks and equipment such as Caterpillar, Kenworth, Peterbilt, Freightliner, Mack and more

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#### LIS14900

##### Wire Terminal Tool and Trouble Code Tool

- Also designed for Pack-Con and Weather-Pack terminals on GM C3 Systems

#### LIS56500

##### Wire Terminal Tool

- Eliminate damaged wires and terminals
- Lisle wire terminal tools are designed to remove wires from terminals without damage to either
- Prongs depress the "barbs" on conventional terminals

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## ELECTRICAL SERVICE

### Terminal Tools



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#### SGT18650 6 Piece Deutsch Terminal Service Kit

- Crimping tools are steel construction with comfortable cushioned grip handles
- Inner label has application information and instructions



Kit includes: Deutsch Terminal Release Tool for 14-16 gage wire (has gold handle), Deutsch Terminal Release Tool for 16-18 gage wire (has blue handle), Deutsch Terminal Release Tool for 20-24 gage wire (has red handle), Open Barrel Crimping Tool for 14-24 gage wire, Terminal Crimper for Deutsch 14, 16 & 18 gage closed barrel terminals and Terminal Crimper for Deutsch 20 & 22 gage closed barrel terminals

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#### SGT18700 11 Piece Master Terminals Service Kit

- Use with Deutsch, Weather Pack, Metri Pack and Molex terminals
- Color coded aluminum handles
- Comes in a blow-molded carrying case with each tool identified in the case



Kit includes: 18551, Deutsch Terminal Release Tool for 14-16 Gage Wire, 18552, Deutsch Terminal Release Tool for 16-18 Gage Wire, 18553, Deutsch Terminal Release Tool for 20-24 Gage Wire, 18560, Terminal Release Tool for 6 Gage Wire, 18570, Deutsch Terminal Release Tool for 8 & 10 Gage Wire, 18580, Release Tool for Weather Pack Terminals, 18600, Open Barrel Crimping Tool, 18860, Terminal Crimper for Deutsch 12 Gage Closed Barrel Terminals, 18880, Terminal Crimper for Deutsch 14, 16 & 18 Gage, closed Barrel Terminals, 18890, Terminal Crimper for Deutsch 20 & 22 Gage Terminals and 18910, Terminal Crimper for Weather Pack and Metri Pack Terminals

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#### SGT18550 3 Piece Steel Deutsch Terminal Release Tool Kit

- Used for releasing Deutsch terminals
- Can be used on 3 wire gauges 14-16 ga, 16-18 ga, 20-24 ga
- Steel shafts with knurled anodized aluminum handles



## STEELMAN<sup>TM</sup> PRO



#### JSP95839 23 Piece Universal Terminal Tool Kit - Euro Coverage

- An assortment of terminal release tools that cover 19 vehicle makes/models
  - Easily removes terminals from electrical connectors and eliminates damage to wires and terminal blocks
- Covers: BMW, Mercedes, VW, Audi, Jaguar, Porsche, Saab, Skoda, Ford, Renault, Citroen, Chrysler, Fiat, Honda, Mazda, Mitsubishi, Toyota, Opel, Seat.

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#### JSP95978 19 Piece Master Terminal Tool Kit

- Tools for new Volkswagen and Audi vehicles
- Tools for coolant sensors, wiring harnesses and terminal blocks on Chrysler, Hyundai, KIA, Mitsubishi and most other modern vehicles
- Helps to eliminate damage to wires or terminal blocks
- Made with machined knurled aluminum handles
- Application chart for reference included inside the storage case

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Kit includes: PCM/Transmission Hardness Tool, Terminal Block Tool, Under hood Sensors Tool, Sheathing Ripper Tool, ABS ECU .55 pin Tool, ABS ECU .35 pin Tool, VW Terminal Tool, Tube, Spring Loaded, 3.3mm x 58mm Square Blade, 1.4mm x 58mm Flat Blade, 1.5mm x 58mm Flat Blade, 2.0mm x 58mm Fork Blade, 8mm x 58mm Flat Blade Screwdriver, 3/16" x 2.30" Tube, 3.3mm x 58mm Tube, 4.3mm x 58mm Tube, 3.75mm x 58mm Tube, 3.0mm x 13mm Flat Twin Blade, 3.0mm Flat Twin Blade, 1.6mm Materials: Handles: Aluminum Tube Blade: Stainless Steel Flat Blade: Carbon Steel HRC 40-46 Screwdriver Blade: Carbon Steel HRC 40-46.

## ELECTRICAL SERVICE

### Terminal Tools

# THEXTON



#### THX588 3 Piece Steel Terminal Release Tool Set in 14,16 and 20 Gauge

- Steel Terminal Release Tools made especially for the smaller size Deutsch Connectors
- Kit contains a custom pouch and 3 tools that are sized 14,16 and 20 gauge
- Provides the technician with an alternative to the plastic tools
- Custom pouch for easy storage



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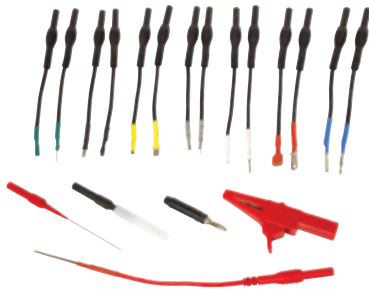
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#### THX483 Deutsch Terminal Removal Tool Kit

- Tools are designed to fit Deutsch HD10, HD20 and HD30 Series connectors plus Deutsch Jiffy Splices
- Kit contains six tools to fit the following wire sizes: 4, 8, 12, 14, 16 and 20 gauge
- Deutsch wire terminals have a special security collar that the connector tabs lock against
- Deutsch terminals and connectors are found on Chrysler, GM, AGCO, John Deere, Case, Bobcat Caterpillar, Harley Davidson, Mercury outboards, Kenworth, Peterbuilt, White and other HD applications
- Deutsch connectors are marked by name for each identification

# Lisle



#### LIS69600 Test Probe Kit

- Provides a better way to check circuitry with a circuit tester or meter
- Kit includes 14 flexible test probes, long straight probe, piercing back probe, crocodile clip, 4mm circuit tester adapter and Deutsch spooned probe
- The probes are designed to be used on popular Weather-Pack, Metri-Pack and Micro-Pack style connectors
- The test probes are 5" in length and are flexible to help eliminate damage to the connector terminals that can result from testing with a standard test probe
- The 4mm adapter allows conversion of some circuit testers to a 4mm banana connector, which provides a better connection

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### Terminal Assortments

# CTA



#### CTA9812 26 Piece Terminal Tool Kit

- Kit contains 26 terminal release tools that assist in easily removing terminals from electrical connectors.
- Using the correct terminal release tool eliminates damage to wires or terminal blocks.
- The handles are individually marked for quick reference against the application chart.
- Applications: BMW, Opel, VW/Audi, Mercedes, Jaguar, Porsche, SAAB, Seat, Skoda, Ford, Renault, Citroen, Chrysler, Fiat, Ford, Honda, Mazda, Mitsubishi, and Toyota vehicles.
- Packed in a blow mold case

# K TOOL

INTERNATIONAL



#### KT100039 360-piece Professional Terminal Assortment

Solderless terminal kit includes 24 of the top terminals including rings, spades, butt connectors, male and female slides, bullet terminals, 2-way and 3-way connectors.

Part Number	Description	Qty
KT104057	Ring Terminal Wire Size: 22-18 Stud Size: 10	20
KT104058	Ring Terminal Wire Size: 16-14 Stud Size: 6	20
KT104059	Ring Terminal Wire Size: 16-14 Stud Size: 10	20

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## ELECTRICAL SERVICE

### Terminal Assortments



#### KT100037

##### 180-piece Solderless Terminal Kit

Solderless terminal kit includes 180 pieces of the most popular terminal rings, spades, male and female disconnects and butt connectors.

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Part Number	Description	Qty
KT104057	Ring Terminal Wire Size: 22-18 Stud Size: 10	10
KT104058	Ring Terminal Wire Size: 16-14 Stud Size: 6	10
KT104059	Ring Terminal Wire Size: 16-14 Stud Size: 10	10
KT104062	Ring Terminal Wire Size: 12-10 Stud Size: 10	10
KT104063	Ring Terminal Wire Size: 12-10 Stud Size: 1/4	10

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Part Number	Description	Qty
KT104069	Butt Connector Wire Size: 22-18	10
KT104070	Butt Connector Wire Size: 16-14	10
KT104071	Butt Connector Wire Size: 12-10	10
KT104072	Male Slide Terminal Wire Size: 22-18 Tab Size:.250	10
KT104073	Female Slide Terminal Wire Size: 22-18 Tab Size:.250	10
KT104074	Male Slide Terminal Wire Size: 16-14 Tab Size:.250	10
KT104075	Female Slide Terminal Wire Size: 16-14 Tab Size:.250	10
KT104076	Male Slide Terminal Wire Size: 12-10 Tab Size:.250	10
KT104497	Ring Terminal Wire Size: 22-18 Stud Size: 6	10



#### KT100038

##### 120-piece Shrink Tube Solderless Terminal Kit

Solderless terminal kit includes 24 popular terminal rings, spades, male and female disconnects, insulated slide terminals and butt connectors. Heat shrink butt connectors make connections weatherproof.

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Part Number	Description	Qty
KT104086	Ring Terminal 22-18 Stud Size 6	5
KT104087	Ring Terminal 16-14 Stud Size 6	5
KT104088	Ring Terminal 16-14 Stud Size 10	5
KT104089	Ring Terminal 12-10 Stud Size 10	5
KT104090	Ring Terminal 12-10 Stud Size 1/4"	5
KT104091	Ring Terminal 12-10 Stud Size 3/8"	5
KT104092	Spade Terminal 16-14 Stud Size 10	5
KT104093	Spade Terminal 12-10 Stud Size 10	5
KT104094	Butt Connector Heat Shrink 22-18	5
KT104095	Butt Connector Solder Seal 22-18	5
KT104096	Butt Connector Heat Shrink 16-14	5
KT104097	Butt Connector Solder Seal 16-14	5
KT104098	Butt Connector Heat Shrink 12-10	5
KT104099	Butt Connector Solder Seal 12-10	5
KT104100	Male Slide Terminal 22-18 Stud Size .250	5
KT104101	Female Slide Terminal 22-18 Stud Size .250	5
KT104102	Male Slide Terminal 16-14 Stud Size .250	5
KT104103	Female Slide Terminal 16-14 Stud Size .250	5
KT104104	Male Slide Terminal 12-10 Stud Size .250	5
KT104105	Female Slide Terminal 12-10 Stud Size .250	5
KT104106	Ins. Slide 16-14 Stud Size .250	5
KT104107	Ins. Slide 16-14 Stud Size .250	5
KT104108	Ins. Slide 12-10 Stud Size .250	5
KT104109	Ins. Slide 12-10 Stud Size .250	5

## ELECTRICAL SERVICE

### Terminal Assortments



**KT100007**  
**40-piece Copper Lug Terminal Assortment**

Copper lug terminal assortment kit includes five each of eight popular sized crimp-on copper lugs for use on 1 to 6 gauge wire. Used for large cable applications like battery cables and grounding cables. Contains 40 pieces.

Part Number	Description	Qty
KT104057	Ring Terminal Wire Size: 22-18 Stud Size: 10	20
KT104058	Ring Terminal Wire Size: 16-14 Stud Size: 6	20
KT104059	Ring Terminal Wire Size: 16-14 Stud Size: 10	20

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**KT100087**  
**360-Piece Terminal Assortment**

Kit contains 360 insulated PVC-sleeve, zinc-plated wire terminals and connectors. Essential for automotive, small-engine, appliance and electrical repair. Includes 13 of the most common wire connection sizes and styles.

Description	Qty:	Description	Qty:
10-32 ring 16-14 ga.....	30	Butt connector 16-14 ga. ....	15
3/8" ring 16-14 ga.....	20	Butt connector 12-10 ga. ....	15
1/4" ring 16-14 ga.....	20	Male bullet 16-14 ga. ....	10
10-32 ring 12-10 ga.....	20	Female bullet 16-14 ga. ....	10
3/8" ring 12-10 ga.....	15	Two-way line connector.....	10
1/4" ring 12-10 ga.....	15	Male disconnect 18-14 ga.....	10
10 spade 16-14 ga. ....	30	Female disconnect 18-14 ga..	10
10 spade 12-10 ga. ....	20	Male ins. disconnect 18-14....	10
Butt connector 22-16 ga. ....	30	Female ins. disconnect 18-14.	10

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**PIC0002T**  
**175 Piece Solderless Terminal Kit**

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

### Heat Shrink



**EZRHS34**  
**157 Piece Heat Shrink Set**

- 8 different size tubes
- 2:1 Shrink Ratio
- Case features a molded in ruler
- Tubes shrink to fit over cable splices and can be used for wire harnessing, covering, marking and bundling wires
- Use for auto, marine, home, industrial, computer and many more applications

Description	Qty
2.5 x 170mm .....	40
3.0 x 170mm .....	40
5.0 x 150mm .....	25
6.0 x 150mm .....	25
16 x 170mm .....	5
10 x 170mm .....	8
12 x 170mm .....	10
20 x 170mm .....	5

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## ELECTRICAL SERVICE

### Heat Shrink



**KT100097**  
**157-piece Electric Wire Solderless Terminal Kit**

157-piece electric wire solderless terminal kit includes 17 popular sizes for 10-18 gauge wire. Products are color-coded for convenience.

Description	Qty	Description	Qty
#8 ring terminal 16-14 ga.....	11	Female connector 16-14 ga. ...	11
#10 ring terminal 16-14 ga.....	11	Male connector 12-10 ga. ....	4
1/4" ring terminal 16-14 ga. ...	11	Female connector 12-10 ga. ...	4
5/16" ring terminal 12-10 ga. .	8	Male bullet 16-14 ga. ....	11
3/8" ring terminal 12-10 ga. ...	4	Female bullet 16-14 ga. ....	11
Butt connect 22-18 ga.....	11	#8 spade terminal 16-14 ga. ...	11
Butt connect 16-14 ga.....	22	Quick splice and tap 16-14 ga	4
Butt connect 12-10 ga.....	8	Quick splice and tap 22-18 ga	4
Male connector 16-14 ga.....	11		

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**KT107740**  
**235-piece Heat Shrink Tube Kit**

235-piece heat shrink tube kit. Assortment includes eight different sizes in five colors, ranging from 3/32" to 5/8".



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Size: 1/8" Qty	Size: 1/4" Qty	Size: 5/8" Qty
Blue ..... 11	Blue ..... 11	Blue ..... 1
Black ..... 11	Black ..... 11	Black ..... 1
Orange ..... 11	Orange ..... 11	Orange ..... 1
Green ..... 11	Green ..... 11	Green ..... 1
Yellow ..... 11	Yellow ..... 11	Yellow ..... 1
Size: 3/32" Qty	Size: 3/8" Qty	Size: 3/4" Qty
Blue ..... 8	Blue ..... 2	Blue ..... 1
Black ..... 8	Black ..... 2	Black ..... 1
Orange ..... 8	Orange ..... 2	Orange ..... 1
Green ..... 8	Green ..... 2	Green ..... 1
Yellow ..... 8	Yellow ..... 2	Yellow ..... 1
Size: 3/16" Qty	Size: 1/2" Qty	
Blue ..... 11	Blue ..... 2	
Black ..... 11	Black ..... 2	
Orange ..... 11	Orange ..... 2	
Green ..... 11	Green ..... 2	
Yellow ..... 11	Yellow ..... 2	



**KT100034**  
**105-Piece Dual-Wall Heat Shrink Tubing Assortment Set**

- Protection and insulation of component and wires
- Use for auto, marine, plane, home, industrial, computer, etc.
- Waterproof; Shrink ration: 3:1
- Assortment includes sizes ranging from 3.2mm to 25.4mm

Description	Qty	Description	Qty
3.2mm x 45mm, Color black..	28	9.5mm x 45mm, Color red.....	3
3.2mm x 45mm, Color red.....	12	12.7mm x 75mm, Color black..	5
4.8mm x 45mm, Color black..	16	12.7mm x 75mm, Color red....	3
4.8mm x 45mm, Color red.....	8	19.1mm x 75mm, Color black..	3
6.4mm x 45mm, Color black... 7		19.1mm x 75mm, Color red....	2
6.4mm x 45mm, Color red.....	4	25.4mm x 75mm, Color black..	4
9.5mm x 45mm, Color black... 6		25.4mm x 75mm, Color red....	4

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



**KT100033**  
**216-Piece Heat Shrink Tubing Assortment Set**

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

- Protection and insulation of component and wires
- Color coordinated sizes
- Quick and simple to shrink by heat gun
- Shrink ratio 2:1
- Assortment includes sizes ranging from 2.5mm to 20mm

Description	Qty	Description	Qty
2.5mm x 45mm, Color black..	50	6mm x 45mm, Color red.....	5
2.5mm x 45mm, Color red.....	20	10mm x 45mm, Color black... 10	
3.5mm x 45mm, Color black..	30	10mm x 45mm, Color red.....	10
3.5mm x 45mm, Color red.....	15	13mm x 45mm, Color black... 10	
4.5mm x 45mm, Color black..	20	13mm x 45mm, Color red.....	10
4.5mm x 45mm, Color red.....	10	20mm x 75mm, Color black....	8
6mm x 45mm, Color black.....	10	20mm x 75mm, Color red.....	8

## ELECTRICAL SERVICE

### Heat Shrink



**KT100035**  
**85 Piece**  
**Heat Shrink Tube Kit**

Shrink tube assortment kit includes five popular sizes. Ideal for weathertight seal of all electrical connections. Use for insulating, jacketing, bundling and identification. It is mechanically tough and has good abrasion and solvent resistance. Shrink temp - 250°F. Shrink ratio 2:1. Kit contains five sizes (1/8", 3/16", 1/4", 3/8" and 1/2").

Part Number	Description	Qty
KT102611	1/8" shrink tube	20
KT102621	3/16" shrink tube	20
KT102631	1/4" shrink tube	30
KT102641	3/8" shrink tube	10
KT104494	1/2" shrink tube	5

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



**TIT45238**  
**171 Piece Heat Shrink**  
**Tube Assortment**

- UL Approved Polyolefin heat shrink tubes
- Operating Temperature: -67°F ~ 257°F (-55°C ~ +125°C)
- Shrink Temperature: Starts at 158°F (70°C) Ends at 230°F (110°C)
- 2:1 Shrink Ratio
- Maximum Electrical Rating: 600 Volts

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

vehicle | SPECIALTY

### Connector Tools



**AST9476**  
**209 Piece Weather Pack Connector & Seal Starter Kit**

- For 1.4-3.8mm wires, covering nearly all Weather pack applications

Kit includes 208 Weather pack pieces and 1 Terminal Release Tool for building 1, 2, 3 & 4 pin Delphi Weather pack terminals. This unit is for 1.4 to 3.8mm wires, but can cover nearly all weather pack applications. Includes a Terminal Release Tool, 1.4, 2.5 & 2.8mm diameter silicone wire seals for 1.4-3.8mm wires, male 0.5-0.85mm, 1.25-2.0mm & 3mm terminal receptacles, female 0.5-0.85mm, 1.25-2.0mm & 3mm terminal receptacles, male & female 1, 2, 3 & 4 pole receptacle housings, and male & female 4 pole pin type housings.



**OTC4813**  
**171 Piece Heat Shrink**  
**Tubing Set**

- Protection and insulation for solder connections and components
- 2 to 1 shrink ratio
- Use heat gun or flame



**TIT45239**  
**106 Piece Dual Wall**  
**Heat Shrink Tube Assortment**

- Waterproof Polyolefin heat shrink tubes
- Operating Temperature: -49°F ~ 257°F (-45°C ~ +125°C)
- Shrink Temperature: Starts at 158°F (70°C) and ends at 248°F (120°C) • 3:1 Shrink Ratio

## ELECTRICAL SERVICE

### Connector Tools



**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#### AST9475 450 Piece Automotive Wiring Terminal Connector Kit

- Includes the most common insulated and non-insulated terminals and connectors used on automotive and general wiring applications
- Pair with Astro's 9477 Interchangeable Crimper for a tool to crimp all of these connectors
- Connectors meet UL and DIN specifications



#### IPA8042 Super-Hard Diamond-Coated Round Micro Files

- This 12-piece set of round files is specially designed to remove corrosion from Cannon, Deutsch, Bullet, NATO, Weather Pack, and other round terminal connections
- Size ranges include: 0.030-0.040" (2), 0.040-0.50" (2), 0.050-0.60", 0.060-0.070", 0.070"-0.080", 0.080"-0.090", 0.090"-0.100", 0.100"-0.110", 0.110"-0.120", and 0.120"-0.130
- Comes in a premium quality holster with magnetic clasp

Each tool features a super hard diamond abrasive coating. The smallest sizes are made from Stainless Spring wire for strength and flexibility. Each file is marked and/or color coded for replacements.

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



#### SGT21250 Finger Saver® Wire Piercing Guide

- Quickly, easily and safely guides the pick point of most circuit testers into the center of all primary automotive electrical wire
- Holds the circuit tester in position allowing technician to work with both hands free
- Impervious to gasoline, oil, thinners and other shop chemicals
- Stores on ground wire of circuit tester

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**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#### LIS61030 2 Piece Wire Inserter Combo Set

- Includes 1/4" O.D. and 3/8" O.D. wire insertion tools for use when installing wires for audio electronics, aftermarket lighting, alarm systems and much more
- With a sharp point on the end and palm size handle, these tools provide extra leverage to pierce through firewalls, rubber grommets and panels
- The 10-1/2" steel tube provides easy access to feed wires through the firewall

#### LIS13120 Electrical Separator Connector



- Quickly disconnects electrical connectors
- The tool tip is double-ended to fit different access angles
- Works on weather pack and other automotive electrical connectors

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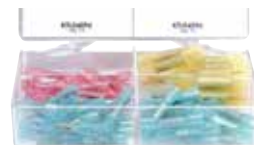


#### KT100003 100 Piece Butt Connector Kit

- Vinyl solderless butt connector assortment kit includes three popular sizes for use on 10 to 22 gauge wire

Part Number	Description	Qty
KT104069	Butt Connectors Vinyl 22-18 Gauge	20
KT104070	Butt Connectors Vinyl 16-14 Gauge	60
KT104071	Butt Connectors Vinyl 12-10 Gauge	20

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#### KT100004 60 Piece Butt Connector Kit with Shrink Tube

Kit includes three popular sizes for use in many applications including automotive and marine. Heat shrink butt connectors make connections weatherproof.

Part Number	Description	Qty
KT104094	Butt Conn. Shrink Tubing 22-18Ga.	15
KT104096	Butt Conn. Shrink Tubing 16-14Ga.	30
KT104098	Butt Conn. Shrink Tubing 12-10Ga.	15

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## ELECTRICAL SERVICE

### Connector Tools

# OTC



#### OTC4462

##### 5 Piece Wire Loom Threading Kit

- 3 pieces for threading a wire into populated looms
- 1 piece for inserting wire through grommeted holes
- 1 piece for pulling a group of wires through a vacant loom
- Spring steel construction

The 4462 Wire Loom Threading Kit from OTC is a clever grouping of wire fishing tools for the automotive technician. Whether general wiring R&R - or adding gauge packs, sound systems, vehicle security, and camera systems, these tools simplify placing the wiring within the protection of existing wiring looms, without cutting tape or zip ties, and without damage to other wires. There are 3 wire pulling tools in 15", 10" and 5.5" lengths for common automotive applications. The grommet insertion tool allows the wire to be captured within the tool to hold once it is placed, so you can grab from the opposite side of the firewall - and the pigtail tool assists when building a new harness on the workbench.

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# THEXTON



#### THX436

##### Wire Insertion Tool

- For installation of wires or cable through rubber grommets such as those used in firewall or vehicle door
- Sharp punch easily pierces thickest grommets
- Hole through handle and punch shaft allows feeding wire through tool and grommet
- Stainless steel shaft • Vinyl tip cover

### Wire Crimpers & Strippers

# EZRED



#### EZRB7946

##### 3 Point Crimper

- Convenient 3/8" drive holding fixtures on top and bottom
- Crimps cable terminal ends onto cables up to 4 awg
- Adjustable wrench holding slot on back of tool
- Crimps cables on the vehicle, boat, airplane, great for stereo installs
- Hardened fine thread drive screw for precise crimps

### Wire Crimpers & Strippers

# Astro



#### AST9478

##### 220 Piece Interchangeable Ratcheting Crimping Set

- For assembling and crimping wide range of most common Delphi Weather Pack Connectors
- Quick Interchangeable 4140 chromoly jaws provide two Weather Pack ratcheting pliers in one (H6 Jaws: AWG 22 / 20-18, DIN 0.35 / 0.5-0.8 mm2) (H7 Jaws: AWG 16-14 / 12, DIN 1.0-2.0 / 3.0 mm2)
- Specialized terminal release tool for disassembling packs



#### AST9477

##### 7 Piece Professional Quick Change Ratcheting Crimping Tool Set

- Quick changing jaw design does not require any other tool to change the jaws
- Versatile kit includes 6 dies for many applications
- Ergonomically designed steel frame handles with contoured rubber grips
- Time saving tools allows faster crimping of terminals and wire
- Crimper is easily operated by either left or right hand

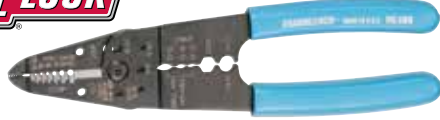
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## ELECTRICAL SERVICE

### Wire Crimpers & Strippers

**CHANNEL LOCK**

MADE IN THE USA



**CHA908**

**8-1/4" Wire Stripper/Cutter/Crimper**

- Strips wire with no damage to conductor
- Crimps both insulated and non-insulated wire
- Cuts and strips AWG 10-22
- Cuts bolt sizes: 10-24, 6-32, 8-32, 10-32, 4-40
- CHANNELLOCK BLUE® comfort grips
- Laser etched marking for lasting indication of wire gauges

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



MADE IN THE USA

**CHA909**

**Crimping Tool With Cutter**

- Precision made of fine polished high carbon drop-forged steel
- Perfectly mated cutters, scientifically heat treated to hold their edge
- Made of high carbon C1080 steel for superior performance
- Electronic coating for ultimate rust prevention
- Designed for crimping both insulated and non-insulated solder-less connections and terminals on 10 to 22 AWG wire

MADE IN THE USA



**CHA958**

**6" Wire Stripper / Cutter**

- Designed to cut copper wire only
- Precision holes for wire stripping
- Lean plier nose pulls and loops wire
- Scissor-type blades are precision ground and heat treated to hold their edge
- CHANNELLOCK BLUE® comfort grips

These will strip AWG wire sizes: 10, 12, 14, 16, 18, 20 and 22. Also strips mm wire sizes: .80, 1.0, 1.3, 1.6, 2.0, 2.6.

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**Lisle**



**LIS68450**

**Wire Crimper/Cutter/Stripper**

- Cutter located at the front
- Five screw cutting/sizing stations located near the pivot point
- Strip 8-18 gauge solid and 10-22 gauge stranded wire and crimp 10-22 AWG insulated & non-insulated connectors

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**Lisle**



**LIS68280**

**Compact Multi-Function Wire Stripper 8-14 Gauge**

- Cuts and strips insulation from 8 to 14 gauge wires
- Crimps 8 to 14 gauge insulated and non-insulated terminals
- The pliers end grabs wire for twisting and holding
- A convenient wire gauge key is marked on the tool



**LIS68250**

**Compact Multi-Function Wire Stripper 14-24 Gauge**

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**LIS68220**

**Self-Adjusting Wire Stripper**

- Adjusts to strip insulation from 10 to 24 gauge wire
- Crimps insulated and non-insulated terminals from 10 to 22 gauge and 7 to 8mm ignition terminals with a size key marked on the tool
- Built in wire cutter and gripper force adjustment knob
- Comfortable handles and steel construction for durability



**LIS68430**

**6" Wire Stripper**

- Features a 3/8" scissor style cutting blade
- Serrated nose jaws strip seven wire sizes which include 10-22 AWG wires
- It features a 6" length with pliers on the nose for looping wire

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**LIS68440**

**Wire Stripper/Cutter/Crimper**

- Curved cutter at the front requires less effort
- Crimps 10-22 AWG insulated and non-insulated terminals and 7-8mm automotive terminals
- Sizes included are 10-24, 6-32, 8-32, 10-32, 4-40 and 5-40

## ELECTRICAL SERVICE

### Wire Crimpers & Strippers



**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**KT156201**  
**9" Professional Multi Purpose Crimper and Wire Stripper**

- Wire cutter, bolt cutter, and wire stripper in one
- Crimps insulated and open barrel terminals



**KT156202**  
**8.5" Professional Multi Purpose Crimper and Wire Stripper**

- Wire cutter, bolt cutter, and wire stripper in one
- Crimps open barrel terminals
- 3.2mm thickness



**KT156203**  
**Professional Crimping Tool - 0.5/1.5/2.5/4.0/6.0 MM2**

- Crimps non-insulated terminals
- Easy to grip handles



**KT156205**  
**8.7" Ratcheting Terminal Crimper**

- 8.7" Ratchet Crimper for insulated terminal
- Polypropylene and thermoplastic rubber handle
- Tool capacity: Red 22-18 AWG, Blue 16-14 AWG, Yellow 12-10 AWG
- Adjusted by screwdriver
- Carbon steel head
- Lifetime Warranty



**KT156207**  
**9.75" Professional 8-in-1 Quick and Easy Wire Stripper**

- Wire cutter, bolt cutter, wire stripper, and bending wire
- Crimps insulated, non-insulated, and pin terminals



**SGT19100**  
**Wire Stripper for Recessed Areas**

- Narrow profile can easily access limited and hard to reach areas
- Strips 12-22 gauge single or multiple stranded conductor wire
- Automatically adjusts to wire size
- Adjustable strip length gauge
- Built-in wire cutter



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**SGT19000**  
**Wire Stripper**

- Automatically adjusts to wire size
- Cuts and strips solid or stranded 12-22 gage wire
- Handles single or multiple conductor wire
- Easy to use - yields clean, nick-free results every time
- Not designed to strip Teflon or similar insulations



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**SGT18600**  
**Open Barrel Crimping Tool**

- For wire gauges 14-24 ga
- Crimps most open barrel terminals including Deutsch, computer sensor and weatherpack
- Thin profile allows access to hard to reach areas
- Steel construction
- Comfortable cushioned grips



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**SGT18880**  
**Terminal Crimper for Deutsch 14, 16 and 18 Gauge Closed Barrel Terminal**

- Crimps Deutsch 14, 16 and 18 Gauge Closed Barrel Terminals that are on heavy duty vehicles, motorcycles, buses, Ag machinery, aeronautical and mining equipment
- Additional use on hi-lift equipment, BMW, Porsche, Mercedes and race cars
- Ratcheting action provides perfect crimp
- E-Z to use just insert terminal and wire then squeeze to complete crimp



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**VIMWS57**  
**5-in-1 Auto Tech Wiring Tool**

- 7" Long Automotive Electrical Wire Tool
- Use for wire cutting and stripping
- Use as pliers for grab and twisting
- Use for crimping of insulated and non-insulated connectors
- Satin chrome plated with red textured grips



## ELECTRICAL SERVICE

### Wire Crimpers & Strippers



**MTNC48  
Quick Change  
Ratcheting Crimper Kit**

- Patented design for changing jaw without a tool required
- Jaws installed any side for left hand or right hand user
- Adjustable crimping pressure
- 1 year warranty on material and workmanship

Patented quick change crimper includes 4 jaws for the most common automobile terminals:

- Jaw A for insulated terminals AWG 22-18/16-14/12-10
- Jaw B for non-insulated terminals AWG 20-18/16-14/12-10/8
- Jaw C for open barrel terminals AWG 20-18/16-14/12-10
- Jaw H for open barrel & V3.5 D-sub terminals AWG 14/22/8

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**EZRBCK18  
Cable Cutter/Crimper Kit**

- B7946 battery terminal crimper
- BK793 battery cable stripper
- B1218 copper strand cable cutter
- BCK18-022 mini breaker bar
- B1218-BM universal bench mount

### Dyna Loom - Split Wire Loom



**Dyna Loom - Split Wire Loom**

Part #	Description	Length
<b>KTI02751</b>	1/2" I.D. Split Wire Loom	7'
<b>KTI02761</b>	1/4" I.D. Split Wire Loom	10'
<b>KTI02771</b>	3/4" I.D. Split Wire Loom	5'
<b>KTI02781</b>	3/8" I.D. Split Wire Loom	10'
<b>KTI02791</b>	5/8" I.D. Split Wire Loom	6'

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### Dyna Loom - Routing Clips



**Dyna Loom - Routing Clips**

Part #	Description	Qty
<b>KTI02742</b>	1/4" Wire Loom Clips	10
<b>KTI02743</b>	3/8" Wire Loom Clips	10
<b>KTI02744</b>	1/2" Wire Loom Clips	10
<b>KTI02745</b>	5/8" and 3/4" Wire Loom Clips	10

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## TUBING CUTTING, FLARING & BENDING

### Cutting



#### KT172310

##### Miniature Tubing Cutter

- Range 1/8" to 5/8" OD tubing
- Rollers for ease of operation

#### KT172330

##### Heavy Duty Tubing Cutter

- Range 1/8" to 1-1/8" OD tubing
- Heavy duty rollers for smooth operation

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**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



#### ROB42080

##### Ratcheting Tubing Cutter - 1/4" - 7/8" tubing

- Designed for confined spaces
- Spring-loaded adjusting screw applies continuous pressure while cutting
- For cutting 1/4" - 7/8" tubing
- Cuts a variety of materials and metals, including steel

#### ROB42071

##### Ratcheting Tubing Cutter - 1/8" - 1/2" Tubing

- For cutting 1/8" - 1/2" tubing



#### OTC4509

##### Straight Blade Hose Cutter

- Cuts rubber hoses ranging from 1/4" - 1-1/2"
- Simply place hose in tool and squeeze handle to cut
- Replacement steel cutter blade No. 4509-1 is available



#### OTC4412

##### Hose & PVC Pipe Cutter, 1 3/4"

- Cuts hose and PVC up to 1-3/4" diameter
- Features metal frame and rubber padded ergonomic handles for high leverage and comfort
- Compound ratcheting action provides maximum cutting power
- Will also cut cable and wires



#### LIS50000

##### Mini Tubing Cutter up to 5/8"

- Smooth nylon action cuts tubing quickly
- Easy-to-use Mini-Cutter features all nylon construction, giving you smoother, easier operation and longer tool life
- Can be used in tight places right on the car
- For all types of metal tubing
- Handles smallest tubing to 5/8" OD

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#### KDT2107

##### Mini Tubing Cutter 1/8 to 5/8"

- Cuts tubing from 1/8" to 5/8" in diameter
- Two rollers provide burr-free cut
- Cuts thin wall steel, plastic, copper, and brass tubing
- Small size fits into tight areas



**Mastercool**<sup>®</sup>  
"World Class Quality"

#### MSC70033

##### Large Heavy Duty Tubing Cutter

- Extremely smooth driving action gets blade to tube quickly
- Well balanced design works effortlessly
- Highly polished, triple chrome plating for corrosion resistance
- Carbide wheel cuts hard and soft copper, aluminum, brass, thin wall steel and stainless steel
- 1/8" to 1-1/8" O.D. tubing



#### MSC70027

##### Mini Pro Tubing Cutter

- Mastercool tube cutters are lightweight yet durable
- Carbide steel cutting wheels work with hard and soft copper, aluminum, brass, thin wall steel and stainless steel
- All cutters feature rollers with flare cut-off grooves to salvage as much old tubing material as possible
- For 1/8" to 5/8" (4-15 mm) O.D. tubing (1/8"-1/2" nominal)



#### MSC70029

##### Triple Chrome Plated Tubing Cutter

- Triple chrome plated
- Larger knob than 70027 mini tube cutter for easier tightening
- Larger cutting wheel cuts faster
- Carbide wheel cuts hard and soft copper, aluminum, brass, thin wall steel and stainless steel
- 3/8" to 1-1/8" (4-28mm) O.D. tubing (1/4" to 1" nominal)



## TUBING CUTTING, FLARING & BENDING

### Flaring



#### KT170082

##### Hydraulic Flaring Tool Kit

- Create precision 45° double, single and bubble flares in seconds
- Brake flaring tool works with stainless steel, and soft metal tubing
- Use for brake lines, transmission cooler lines, and fuel lines
- Kit contains: brake flare forming tool, 3/16" and 1/4" tube retaining dies, adapters, handle, user manual, and storage/carrying case

Set contains brake flare forming tool, 3/16" and 1/4" tube retaining dies, adapters, handle and a hard plastic storage/carrying case. User manual included.

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#### KT170081

##### Brake Line Flaring Tool

- Easily form 45° double, single and bubble flares in OE steel, stainless steel, and soft metal tubing
- Use with 3/16", 1/4", 5/16" and 3/8" diameter lines
- All the brake-flaring forming dies are mounted right on the turret
- T-handle screw clamp securely holds line in place during forming
- Vise-mounted • 1-Year Warranty

Use with 3/16"-, 1/4"-, 5/16"- and 3/8"-diameter lines...which means it will handle all your plumbing jobs from brake lines to transmission cooler lines and fuel lines. "Turret-style" design allows you to make those precision flares in minimal time.

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#### KT170085

##### Heavy Duty ISO Flaring Tool Set

- Allows mechanics to create an ISO flare on brake lines without removing them from the vehicle. Although ISO flare is not the standard double flare, it is being installed on domestic and imported front-wheel drive cars and light trucks. Works on mild steel tubing (1.0 mm wall thickness)



Kit includes yoke assembly, flaring bar, gauge/wrench and four adapters (4.75 mm, 6 mm, 8 mm and 10 mm). Weight: 2.8 lbs.

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#### KT170080

##### Professional Double Flaring Tool Kit

- Professional double flare tool kit for fabricating double-compression lines (brake lines) or single-compression lines (fuel lines) in copper, steel, or aluminum
- Kit features high-grade, alloy steel center screw; plated, heat-treated, precision-ground swivel, and drop-forged, heat-treated yoke
- Each adapter is laser engraved for easy identification
- Packaged in a blow molded case
- Made in the U.S.A.

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#### KT170060

##### Double Flaring Tool Kit

- Specially designed for double or single flare in copper, aluminum or soft steel brake line and brass tubing
- Complete with blow molded case
- Comes with 7 adapters in sizes: 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" and 5/8"

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## TUBING CUTTING, FLARING & BENDING

### Flaring

# OTC



#### OTC6502

##### Master Brake Line Flaring Tool Kit

- Single Flare Standard Lines 3/16" – 5/8"
- Single Flare Metric Lines 4mm – 14mm
- Double Flare Standard Lines 3/16" – 1/2"
- Double Flare Metric Lines 4mm – 10mm
- Bubble Flare Standard Lines 3/16" – 1/2"
- Bubble Flare Metric Lines 4.75mm – 10mm

Covers all the capabilities of the above separate kits. Kit contains flaring bar, arbor press, adapters, tube cutter, deburring tool, all in a hard case.



#### OTC6503

##### Double Flaring Tool Set with Cutter

- Designed for steel brake lines where double flaring is required
- Also performs 45 angle single flares on 3/16", 1/4", 3/8", 7/16", 1/2" and 5/8" copper, aluminum, brass, and magnesium tubing
- Housed in a plastic blow molded case

Includes the OTC 6514 tubing cutter and adapters for double flaring 3/16", 1/4", 5/16", 3/8" and 1/2" tubing



#### OTC4503

##### Double Flaring Tool Kit

- Designed for double or single flare in copper, aluminum, soft steel brake line, and brass tubing (to 45 degrees)
- Includes five adapters 3/16" through 1/2" (4.8mm through 12.7mm)
- Chrome swivel, made of alloy steel reduces friction
- Forged yoke made of heat treated steel
- Housed in a blow-molded case

# OTC



#### OTC4504

##### Bubble (I.S.O.) Flaring Tool Kit

- Designed for crack-free bubble flares on soft steel tubing used in automotive brake systems
- Forged steel yoke, flaring bar, and all the adapters needed for ISO bubble flaring
- The most economical "Bubble" flare tool to date
- Includes four dies: 4.75, 6, 8 and 10mm adapters

# Lisle



#### LIS31310

##### Double Flaring Tool Set

- This tool set includes everything to flare thin wall steel, aluminum or .040 wall soft copper tubing
- The set includes 5 thread dies and adapters for forming double flares on the following tubing sizes: 3/16", 1/4", 5/16", 3/8" and 1/2"
- Makes both single and double SAE flares
- The set is packaged in a durable, oil and grease resistant polyethylene box for storage
- Full instructions are included
- Skin-packed with tray

#### LIS56150

##### Combination Flaring Tool

- Works on aluminum, copper and soft steel tubing
- Not recommended for stainless steel
- Includes complete instructions

This combination flaring tool works for single and double flares, also ISO (bubble) flares and includes all the tools necessary to flare steel tubing.

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## TUBING CUTTING, FLARING & BENDING

### Flaring



#### MSC70092 Flaring, Double Flaring and Cutting Tool Set

- Heavy duty tube cutter
- Standard 45° flaring tool
- Double flaring adapters set



#### MSC71480 37° Flaring and Double Flaring Hydraulic Tool Kit

- Easy hydraulic operation creates perfect flare
- Sizes: 3/16", 1/4", 5/16", 3/8" and 1/2"
- Heavy duty construction

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#### MSC71475-PRC Universal Hydraulic Flaring Tool with Mini Tube Cutter

- Creates production quality flares
- No leakage
- Push connect, GM fuel lines, 45 double flare, Metric bubble
- Includes free MSC70027 mini tube cutter

Smooth hydraulic operation ensures no leakage and the ability to create flares directly on the vehicle.



#### MSC71200 Push-Connect Flaring Tool Set

- Fabricates push-connect flares found on transmission cooler, fuel and some brake lines
- Patent pending Hydra-flare hand operated hydraulic ram generates the power necessary to produce proper fitting ends
- Includes custom carrying case

Push-Connect Flaring Tool Set includes: Hydra-flare assembly, 5/16" adapter, 5/16" die set, 3/8" adapter, 3/8" die set.

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#### CAL165 Master Inline Flaring Tool

- In-Line Flaring Tool, for 3/16" to 3/8", 4.75mm to 8mm
- Makes single, double or bubble flares



#### KDT41860 Double Flaring Tool Kit

- Complete double flaring tool assortment
- Slots on yoke firmly engaged with bar assembly
- Includes corresponding adapters for forming double flares
- Forged alloy steel and through hardened
- Storage case with full instructions

Precisely flares tubing up to 0.040 wall thickness to SAE 45° flares. Hardened bar assembly clamps 7 tubing sizes: 3/16", 1/4", 5/16", 3/8", 7/16", 5/8", and 1/2".

Do not use on stainless steel tubing.

## TUBING CUTTING, FLARING & BENDING

### Flaring



#### KDT41870

##### Bubble Flaring Tool Kit

- Complete bubble flaring tool assortment
- Slots on yoke firmly engage with bar assembly
- Includes corresponding adapters for forming double flares
- Forged alloy steel
- Full instructions

Precisely flares tubing up to 0.40 wall thickness to Metric 45° flares. Hardened bar assembly clamps 4 tubing sizes: 4.7, 6, 8, and 10mm. Do not use on stainless steel tubing. Set contains: Metric bar assembly, Yoke assembly, Reamer, 4.7mm Flaring Tool Adapter, 6mm Flaring Tool Adapter, 8mm Flaring Tool Adapter, and 10mm Flaring Tool Adapter.



#### KDT41880

##### Double/Bubble Flaring Tool Kit

- Complete Double and Bubble flaring tool assortment
- Slots on yoke firmly engage with bar assembly
- Include corresponding adapters for forming double flares
- Forged alloy steel and through hardened
- Full instructions
- Precisely flares tubing up to 0.040 wall thickness to SAE/Metric 45° flares.

### Bending



#### KTI72320

##### Tubing Bender

- Aluminum head accommodates 3/16", 1/4", 5/16" and 3/8" tubing with straight handle

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#### KTI72345

##### Heavy Duty Tubing Bender Pliers

- Bends 3/16", 1/4", 5/16" and 3/8" diameter copper and steel tubing without collapsing or kinking

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#### KTI72340

##### Heavy Duty Tubing Bender

- Bends 1/4", 5/16" and 3/8" aluminum, steel or copper

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#### TIT51503

##### Mini Tubing Bender

- Bends 1/8", 3/16" and 1/4" outside diameter of brass, copper, steel or aluminum tubing
- Compact for close quarters applications
- Bends 90° accurately



#### LIS44000

##### Tubing Bender

- Easy to use with one end connected - or can be mounted in a vise
- Exclusive nylon form prevents kinking or flattening
- For 3/16", 1/4", 5/16" and 3/8" O.D. tubing
- Not recommended for 3/8" steel

Lisle's Tubing Bender bends 4 sizes, makes professional looking bends without kinks or collapsing the tube.

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## TUBING CUTTING, FLARING & BENDING

### Bending



**LIS44070**

**1/4" Tubing Bender Pliers**

- Bends 1/4" brake lines without kinking or flattening, especially in tight spots
- Unique head design bends tubing without collapsing the tube
- Won't mark tube surface
- Handles are more than 3-1/4" apart and unique head design keeps handles parallel to the tubing for proper leverage even when bending steel tubing
- Bends all types of 1/4" OD tubing

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**LIS44150**

**3/16" Tubing Bendier Pliers**

- Bends 3/16" brake lines without kinking or flattening, especially in tight spots
- Bend all types of 3/16" OD tubing
- Unique head design bends tubing without collapsing the tube
- Won't mark tube surface
- Handles are more than 3-1/4" apart for proper leverage when handling even steel tubing

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**KDT2189**

**Tubing Bender 3/16", 1/4", 5/16" and 3/8"**

- Bend 3/16", 1/4", 5/16" and 3/8" copper and steel tubing
- Tool makes tight bends without the tube collapsing
- Roller adapters are included for each tubing size

Bending cooper and steel tubing, this tool makes the job easier! It's simple to use, just place the tubing between adapters and studs. Then squeeze the handles to bend. It's durability allows for a strong performance!



**KDT2517**

**Tubing Bender**

- Bend 3/16", 5/16" and 3/8" diameter tubing without kinking
- Place tubing in groove and turn the handle to bend
- Heavy-duty construction provides years of service

vehicle | SPECIALTY

## FUEL MANAGEMENT

### Fuel Service Kits



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**SRRKP1200**

**Fuel Line Replacement Kit**

- Can be used to replace or repair fuel lines in just minutes
- Easy-to-use, no awkward insertion tools required... simply push together by hand
- Cost-Effective - Save up to 70% vs. OEM fuel lines
- Numerous applications - fits over 90% of domestic and foreign vehicles

Convenient push-button thumb release makes connections fast and easy. No insertion tools required, simply push together by hand. Universal quick connector is capable of fitting GM, Ford, Chrysler and more. Designed for high pressure applications - all nylon lines hold up to 200 PSI.



**SRRKP1500**

**Deluxe Fuel Line Replacement Kit**

- Patented EXCLUSIVE quick connectors make connections fast and easy
- Replaces/repairs nylon & steel lines
- NO insertion tool required
- NO disconnect tools required
- Complete coverage of foreign & domestic cars, trucks, & suv's

Patented Master Kit allows technicians to quickly repair/replace any fuel line needed on the job without waiting for costly lines, fittings and deliveries. Saves up to 70% vs OEM lines. Contains 1/4, 5/16, & 3/8 fittings and tubing. Replacement fittings/tubing available for re-order

## FUEL MANAGEMENT

### Fuel Service Kits



#### SCH13900 Cummins 19mm & 22mm Fuel Line Sockets, 2 Piece Set

- 19mm 12pt 1/2" drive flair nut socket designed for Cummins ISB Fuel Lines
- 22mm 12pt 1/2" drive flair nut socket designed for Cummins ISX Fuel Lines
- Only sockets currently designed to access fuel line fittings for these applications
- Torque high pressure fitting without torque adaptors
- Properly torque fuel line fittings reduce fuel line leaks and damaged fuel lines



#### IPA9038 Fuel Pump Relay Bypass Master Kit

- Actuates fuel pump when the engine is not running
- Plugs in place of relay
- Controls fuel pump independent of "key-on/key-off" systems
- Operating range: Up to 20 amp continuous, 30 amp surge (12V)

The 6 piece set of Relay Bypass Switches combines the IPA 9036 and IPA 9037 into one convenient master kit. The Relay Bypass Switch plugs in place of the fuel pump relay and provides direct control over the fuel pump circuit. It can be used to actuate the fuel pump when the engine is not running, allowing the fuel pressure to be read. Operating Range: 20 Amp Continuous, 30 Amp Surge (12V)

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#### LIS22850 Fuel and Vacuum Line Hose Pinchers

- A quick, easy way to pinch off vacuum lines, fuel lines, etc. without damaging the line



#### KT175305 Mini Fuel Line Installation Tool

- Tool easily attaches all fuel line assemblies to original fuel lines
- Works with OEM fuel line connectors and fuel lines
- Includes ratcheting 9/16" wrench
- Completely portable, moves from vehicle to vehicle
- Designed to fit in tight work areas • One-year warranty



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#### MITMV5545 PRO Fuel System Test Kit

- Measures fuel system pressure and flow to accurately pinpoint fuel system failures
- Patented system simulates extreme driving conditions in the shop to provide the most accurate diagnosis
- Capable of testing both return and returnless fuel systems including electronic control
- Provides clear visualization of fuel to detect impurities and air bubbles



#### WAEFPT2600-EX1 Fuel Cap Pressure Tester, Texas Approved

- Type I safety can used to store, transport, and dispense flammable liquids safely, has single spout for filling and pouring
- Made of galvanized steel, which is resistant to rust, dents, and certain chemicals, powder-coated finish
- Flame arrestor helps prevent liquids inside the can from igniting and keep flames from spreading
- Quick connect adapter changeover • Battery operated



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## FUEL MANAGEMENT

### Fuel Service Kits



#### OTC6763

##### Ford 6.0L High Pressure Fuel Rail Adapters

- This pair of High Pressure Fuel Rail Adapters is required to connect to the vehicle's fuel line
- The fuel line connection changed in 2004 – so the two adapters give you the capability to address either platform for pressure testing
- OTC offers a new selection of service tools for Aftermarket professionals who service the Navistar 6.0L

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#### OTC6760

##### Ford 6.0L and 7.3L Fuel Filter Wrench

- Reversible Six lug design provides the convenience of two sizes in one tool
- Low profile design for access in tight areas
- Lightweight low profile for strength and durability
- 3/8" drive allows the wrench to be used with a variety of drive tools



Designed to remove and install the fuel filters on the Ford 6.0L and 7.3L Power Stroke diesel engines as well as International / Navistar diesel engines.

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### Diesel Service



#### SCH11400

##### Ford Power Stroke 6.7L Diesel Injector Socket

- 17mm 12 point for easy install at any angle
- Depth stop keeps socket at proper height
- Thick mass to reduce flex and flare nut damage
- Nose geometry designed to reduce likely damage to the electrical connection
- Linear socket designed with enough clearance to torque the fittings without complex mathematical equations when using torque adapters

#### SCH10900

##### Ford Diesel 4 Pin Fan Clutch Pulley Holder

- Super duty pins for extra strength
- One piece design versus factory 2 piece design for less cost
- Heat treated high quality steel • Professional black finish
- Works on 2011 and newer 6.7L Ford Diesel Power Stroke engines



#### SCH12250

##### Ford 6.4L PS Diesel Turbo Arm Actuator Link Puller

- Remove 6.4L Power Stroke Actuator Link Rod from turbo arm without removing turbo
- Reduce service time by separating the link and arm on the truck
- Compact design provides access in tight areas
- Self-aligning with fine threaded pressure bolt for durability
- 2008 to 2010 Ford 6.4L Power Stroke Diesel Engines



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#### CTA7072

##### Diesel Fuel Priming/Bleeding Syringe

- 1500cc cylinder capacity
- Double viton seals
- For priming/bleeding Diesel Fuel Systems
- Hose assembly with flow control valve & connector assembly
- 5 adapters for connecting to most Diesel Systems

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#### LIS68210

##### Ford Diesel IPR Socket

- Used to remove and replace the Injector Pressure Regulator (IPR) on Ford 6.0L and other diesel engines
- Tool is built to bottom out on the hex so it does not put torque on the connector in case it can be reused
- Use with 3/8" drive

#### LIS75730

##### Combustion Leak Indicating Fluid for Diesel Engines

- Connect tester to hand vacuum pump with hose provided
- Tapered plug fits all radiators



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## FUEL MANAGEMENT

### Diesel Service



#### OTC6770

##### Ford 6.0L Diesel Service Tool Kit

- 8 of our popular 6.0L diesel service tools in one convenient kit
- Properly test vehicle systems for leaks and blockage
- Safely remove and re-install harnesses without damage
- Includes fuel filter cap wrench as well as glow plug and injector harness release tools
- Also includes oil line disconnect tool, EGR removal tool, IPR controller, IPR socket tool, and fuel rail pressure adapters
- Diagnose pressure problems often associated with no starts and help you remove and replace common components like IPR's or EGR's, oil lines, glow plug harnesses, and injector harnesses.



#### OTC5021

##### Universal Diesel Engine Compression Gauge

- Works on any diesel engine to test compression up to 1000 PSI and 7000 kPa
- Features include a check valve, push button compression release, and a quick disconnect fitting on the hose end
- Straight and 45 degree hose connectors are included



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#### STATU-32-4PB

##### Ford Diesel Fuel System Kit

- For diesel fuel pressure testing on Ford Power Stroke engines 1994 to present
- Includes a 100 PSI gauge, a bleed off valve hose assembly, and all the adapters necessary to pressure test the fuel system on Power Stroke engines
- Adapters can be used for testing at both the fuel filter and at the fuel pump
- Packaged in a plastic case

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#### OTC6764

##### Ford 6.0L Diesel IPR Controller

- Tactile On/Off switch with LED confirming power to the tool and signal to the Injector Pressure Regulator
- Permits a quick initial diagnosis of the pressure regulator when a hard start-no start situation exists
- Used in conjunction with any scan tool capable of reading fuel pressure on 6.0L Ford Diesel
- When a hard start or no start condition exists, the 6764 from OTC allows a technician to close the Injector Pressure Regulator in order to determine if proper injector control pressure is achieved



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#### LIS37450

##### DEF Disconnect Set

- Compact design allows easy access to hard-to-reach DEF fill and breather lines
- Works on 2012 and Newer Ford Power Stroke and Dodge Diesel
- The disconnects are used to depress the locks that retain the DEF lines allowing removal
- Three sizes for many applications

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## FUEL MANAGEMENT

### Carburetor Adjusting Tools



**LIS55250**

**GM Chrysler Carburetor Adjusting Tool**

- Heavy-duty flexible shaft for easy access
- Four adapters conveniently store in the hollow handle

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**THX350**

**GM Carburetor Adjusting Tool**

- Flex shaft- for easy maneuvering
- Fits "Double-D" screws and 4.5 mm hex heads
- Fits idle mixture screws

For use on all 1979 and up GM carburetor. The flexible shaft tool makes reaching and adjusting idle mixture screws easy. Sliding handle fits securely in either end of tool.

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**OTC7667**

**GM Computer-Controlled Carburetor Tool Set**

- These tools adjust various settings on Rochester QuadraJet, DualJet, and VaraJet carburetors on most GM vehicles having the 3C system

Applications include: 2mm double-D - VaraJet lean authority screw and idle air bleed; and DualJet and QuadraJet mixture control adjusting screw; 2.5mm hex - DualJet and QuadraJet TPS adjusting screw; 7mm double D - DualJet and QuadraJet main metering jets; 10mm double D - DualJet and QuadraJet mixture control solenoid-rich screw.

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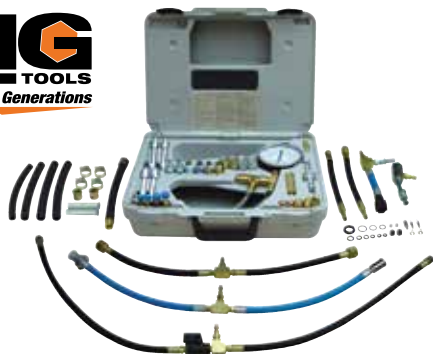


**WLMW1187**

**Carburetor Adjusting Tool**

- For use on most GM and 1.7-2.2L Chrysler 1978-Present vehicles
- Includes 4 tips that store in handle: 4.5mm abd 1/4" hex; Double D; 32mm hex bit

### Fuel Injection Testing



**STATU443**

**Deluxe Global**

**Fuel Injection Pressure Test Set**

- The 3 1/2" gauge has a dual scale dial with ranges from 0 - 100 PSI and 0 - 7 bar
- It also has a relief valve and 6 ft. of tubing to relieve the pressure and the fuel safely. Also allows checking for sufficient fuel flow
- The 4 ft. gauge-hose and gauge with a hook can be hung up to free the Technician's hands
- The many adapters, hoses, and fittings cover most fuel injection systems worldwide



**STATU113PB**

**Fuel Injection Tester**

- This tester determines if the fuel pressure regulator needs adjusting or replacing
- Allows the mechanic to adjust it to the correct pressure if its is adjustable
- Identifies if other components are bad, such as fuel pump, filter, etc.
- Comes in heavy vinyl pouch with instructions and specifications

It has everything to test the following systems: American Motors, Bosch AFC, MPC Euro and Japanese (except C.I.S.), Chrysler Corp., Ford Motor Co., GM (except T.B.I.), Japanese fuel injection systems. Also works with others using Bendix-type fuel injection or Schrader-type valve, including the small Schrader valve found on both T.B.I. and Multi-Port Fuel Injection systems found on Ford products. Dual scale 2-1/2" gauge, 100 PSI and 7 kg/cm2.

## FUEL MANAGEMENT

### Fuel Injection Testing



#### LIS55700

##### Master Fuel Injection Kit

- Master fuel injection test set test all types of fuel injection systems
- Tests GM, Ford, Chrysler, Honda/Acura, Toyota, Bosch CIS and L-Jetronic

This set checks fuel pressure on most port fuel injection (PFI) and throttle body injection (TBI) systems. Comes with a variety of adapters and gauges for checking many types of systems. Adapts to work with test port connections, end of hose connections and in-line connections. List of component parts included with instructions.

#### LIS58600

##### Fuel Injection Tester

- Fuel injection tester with gauge
- Hose and adapters for most Domestic and Asian applications included



QUALITY • SERVICE • INNOVATION • VALUE



#### WAE48065

##### Digital Fuel Injection Grand Master Kit

- Digital Accuracy identifies problems analog gauges can't measure
- NIST traceable, precisely calibrated to the same standards
- The minimum and maximum feature is ideal for road testing
- 12' cord and remote readout allows fast easy hook up
- 100% Adapter Coverage Guarantee



Professional Tools For 4 Generations



#### STATU550

##### Master Fuel Injection Kit

- Covers most models 1988 through 2004
- Includes five most popular banjo bolt test adapters: M14 x 1.50, M12 x 1.50, M12 x 1.25, M10 x 1.00 and M8 x 1.00
- Banjo bolt test adapters and vehicles banjo bolts are the same size hex, which enables the Technician to use the same wrench for component removal and installation
- Contains M6 x 1.00 Honda test port adapter
- Includes fuel pump deadhead pressure test adapter with 1/4", 5/16" and 3/8" hose sizes



#### STATU74489

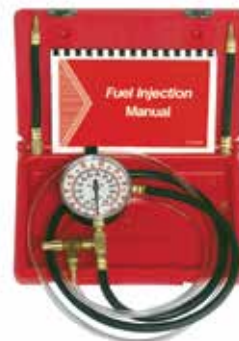
##### Fuel Injection Update Kit

- Use with any Star F.I. pressure test kit with a quick coupler
- Includes right angle adapters for Ford and GM
- Good for those hard to reach places
- Includes adapter to allow checking Deadhead Pressure on 1/4", 5/16" and 3/8" hose
- Also Quick Connects for Chrysler and GM vehicles with metal and plastic disconnect valves

#### STATU469

##### Fuel Injection Pressure Tester with Schrader Adapters

- Great starter tester
- Enables testing on all cars with standard or small Schrader valves
- The 3-1/2" gauge has a dual scale dial with ranges from 0-100 PSI and 0-7 bar
- Hook on gauge enables the Technician to hang up gauge and hose assembly to free his hands
- Quick coupler connection at end of gauge hose



## FUEL MANAGEMENT

### Fuel Injection Testing



# OTC

#### OTC6550 Master Fuel Injection Kit

- Including GM TBI, Ford, Chrysler, and Jeep vehicles
- 0-100 PSI fuel pressure gauge
- 35 of the popular OTC fuel injection adapters, each equipped with a quick-connect Schrader valve for safety
- Replacement seal kit also included

With this new kit you can diagnose fuel-related problems, such as a weak fuel pump or restricted fuel filter, and perform leak-down tests. Test fuel injection systems on most GMs, including GM TBI, Ford, Chrysler, and Jeep vehicles. Also works on imports, including CIS and CISE fuel systems

# OTC



#### OTC3398 Fuel Injection Pulse Tester

- Power and output lights indicate test activation
- Includes wiring harness adapter and instructions
- Check cylinder balance by firing individual injectors
- Fires individual injectors in 1/2-second increments in three different ranges: 1 pulse of 500 milliseconds; 50 pulses of 10 milliseconds; 100 pulses of 5 milliseconds

#### OTC5630 Fuel Pressure Tester Kit

- Large, easy to read 0-100 psi scale, 0-700 kPa
- Solid brass fittings
- Pressure relief valve for safe, clean testing



# LANG

TOOLS  
Professional Tools For 4 Generations

#### STATU32-6 GM 6.6L Duramax Diesel Fuel System Test Kit

- For diesel fuel pressure and vacuum testing on GM 6.6L Duramax engines
- Gauge assembly with 6' hose and quick coupler
- 3-1/2" gauge reads inHg to 15 PSI



#### STATU15 Diesel Compression Tester

- Release air and automatically reset gauge for repeat testing
- Swivel end quick coupler for easy connection to adapters
- 16-1/2" long wire reinforced hydraulic hose
- Adapters from most other manufacturers are interchangeable with this tester
- 2-1/4" gauge has a dual scale dial with ranges from 0-1000 PSI and 0-70 bar



# THEXTON

#### THX108 Urea DEF-CHEK Professional Tester

- Test Urea Concentrate of Diesel Exhaust Fluid
- If mixture is 0.7% off, manufacturer suggests replacing the DEF and identifying the problem
- Tester is a cost effective tool to test DEF
- IF DEF is not tested, it will cause harm to the vehicle
- Temperature compensating discs test DEF hot or cold



## FUEL MANAGEMENT

### Fuel Injection Testing



#### OTC6550PRO

##### Professional Master Fuel Injection Kit

- Accommodates virtually every vehicle and minimizes time consuming work arounds
- Gives technicians a single point of information to use product and interpret data for specific vehicles from 1997 to 2008 model year
- Unique BMC design storage - Allows technician to store in case as delivered or store in their own tool storage system
- Schrader Valve designed adapters- increase safety - prevents fuel from leaking/spraying; endures contact with chemicals without swelling or cracking
- Viton Seals Durability/Reliability Seals endure contact with alcohol blended fuels and chemicals without swelling or cracking

Kit includes: Fuel Pressure Gauge, Adapters and accessories to perform Fuel Pressure Testing, Fuel Injector Cleaning and Intake System Cleaning. The Application Guide (included) gives a technician the procedure and data to follow and interpret, including access, disabling, adapter and pressure.

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#### OTC4200

##### Nozlrater Diesel

##### Injector Nozzle Tester

- Here is the ultimate tool for diagnosing a number of problems that affect diesel fuel injector nozzles
- The Nozlrater tester enables you to check for leakage, pop-off pressure, spray pattern, and chatter. This tool will accommodate a wide range of injectors. We also offer adapters so you can troubleshoot nozzles used in popular automotive, agricultural, and construction engines.
- Nozlrater features a rugged, lightweight reservoir that holds 7/10 of a gallon of fuel. It is equipped with a replaceable 2-micron filter. The large, dual-scale, high-pressure gauge is protected by a guard and includes an indicator needle to record maximum pressure reached. The tester is light enough to be easily carried for field use. Or you can bench-mount it, using the holes in its base.
- Not designed for Cummins or Detroit injectors

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#### SGT36200

##### Multi-Port Fuel Injection Pressure Tester for Domestic and Foreign Vehicles

- Can test the fuel pressure on virtually all domestic and foreign vehicles equipped with multi-port fuel injection
- Can also test throttle body injection systems on most Chrysler and Ford vehicles
- Bleed off valve and hose to safely de-pressurize system after completion of test
- Packed with complete instructions • Not for diesel engines

Includes: adapter for Domestic, Asian and European vehicles equipped with a standard Schrader test port; adapter for Ford multi-port (EFI) and throttle body systems; adapter for Honda vehicles; 4 piece adapter set: 8mm-1.00, 10mm-1.0, 12mm-1.25, and 12mm-1.50 to test most Asian and European multi-port vehicles; assorted hoses, hose barb fittings and hose clamps to test older vehicles; 2-1/2" diameter gage with dual scale - measures 100 PSI and 7 Bar and has a hang-up hook.

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#### SGT36250

##### Multi-Port Fuel Injection Pressure Tester for Domestic and Foreign Vehicles

- Can test the fuel pressure on virtually all domestic and foreign vehicles equipped with multi-port fuel injection
- Can also test throttle body injection systems on most Chrysler and Ford vehicles • Not for diesel engines
- Bleed off valve and hose to safely de-pressurize system
- Comes in a durable, plastic molded storage case with carrying handle; case measures 11-1/4" x 7-1/2" x 3" and has ample space for additional adapters and parts

Includes: adapter for Domestic, Asian and European vehicles equipped with a standard Schrader test port; adapter for Ford multi-port (EFI) and throttle body systems; adapter for Honda vehicles; 4 piece adapter set: 8mm-1.00, 10mm-1.0, 12mm-1.25, and 12mm-1.50 to test most Asian and European multi-port vehicles; assorted hoses, hose barb fittings and hose clamps to test older vehicles; 2-1/2" diameter gage with dual scale - measures 100 PSI and 7 Bar and has a hang-up hook.

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## FUEL MANAGEMENT

### Fuel Injection Testing



**SGT33950**  
**Fuel Injection Pressure Tester with Two Gauges**

- Test gasoline fuel pump pressure on most domestic and imported fuel injection equipped vehicles
- Easy to hook up and read
- Includes 2 gages for more accurate testing
- Large gage is calibrated from 0-100 PSI (0-7.0 BAR)
- Small gage is calibrated from 0-50 PSI (0-3.5 BAR)

Kit contains everything to test all GM vehicles with multi-port and some throttle body injection (TBI). Test all Chrysler cars with multi-port turbos and some TBI. Use on most Ford TBI systems equipped with or without small Schrader test valve. Test all Ford vehicles with multi-port fuel injection systems. Large gage can be used for all applications and has hang-up hook. Small gage provides more detail when pressure will not exceed 50 PSI (0-3.5 BAR). Full instructions included.

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**SGT33980**  
**Fuel Injection Pressure Tester with Two Gauges in Molded Plastic Storage Case**

- Test gasoline fuel pump pressure on most domestic and imported fuel injection equipped vehicles
- Easy to hook up and read
- Includes 2 gages for more accurate testing
- Large gage is calibrated from 0-100 PSI (0-7.0 BAR)
- Small gage is calibrated from 0-50 PSI (0-3.5 BAR)

Includes plastic molded storage case with carrying handle. Case measures 11-1/4" x 7-1/2" x 3" and has ample space for additional adapters and parts.



**SGT33770**  
**Basic Fuel Injection Pressure Tester**

- The perfect starter kit for the serious technician
- Includes adapter for all domestic, Asian and European vehicles equipped with a standard Schrader test port
- 2-1/2" diameter gauge with dual scale and hang-up hook
- Measures 100 PSI and 7 bar • Complete instructions

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**SGT33900**  
**Fuel Injection Pressure Tester**

- Works on GM and Chrysler vehicles same as SGT33950, but on Fords, limited to older TBI systems not equipped with small Schrader test valve
- Supplied with large gauge only
- Gauge equipped with hang-up hook
- Supplied in storage pouch

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**SRRFPT22**  
**Deluxe Fuel Injection Pressure Tester Kit**

- Quick Connect Adapters, 9' Hose, in molded case
- Most installer friendly and affordable fuel pressure tester on market
- View aerated fuel through transparent yellow adapters
- Unique extra large gauge features suction cup back for attaching tester to windshield for drivability testing
- Relief valve included for flow testing

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## FUEL MANAGEMENT

### Fuel Injection Accessories



#### SCH13300

##### Duramax LLY, LBZ, and LMM Injector Puller Kit

- 2005 to 2010 Duramax with LLY, LBZ and LMM engines
- Pulls injector straight
- Pulls injector completely out of head
- Puller reduces the potential for injector and head damage
- Reduces injector R&R service times

13300 Duramax diesel injector puller is designed to remove injectors on 2005 to 2010 LLY, LBZ and LMM engines. Heavy carbon buildup on the head and injector tip can make the injector difficult to remove. The 13300 puller is designed to pull the injector straight and completely out of the head reducing injector and head damage. The 13300 kit includes all components required to remove the injector in one continuous pull reducing component damage and reducing R&R service times.

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#### SCH14400

##### Duramax Fuel Pressure Release Valve Wrench

- Services Duramax LML fuel pressure release valve
- 2011 and later Duramax LML engines
- Eliminates the need to remove EGR cooler and fuel rail to access the valve
- Two piece design wrench provides the tool versatility needed to access the valve
- Significant reduction in service time



#### SCH11400

##### Ford Power Stroke 6.7L Diesel Injector Socket

- 17mm 12 point for easy install at any angle
- Depth stop keeps socket at proper height
- Thick mass to reduce flex and flare nut damage
- Nose geometry designed to reduce likely damage to the electrical connection
- Linear socket designed with enough clearance to torque the fittings without complex mathematical equations when using torque adapters

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#### SCH17200

##### Cummings 5.9L & 6.7L ISBE & HPCR Injector Puller

- Diesel Injector Puller for Cummings ISBE & HPCR engines
- 2003 to Current ISBE & HPCR Engines
- Adjustable Height for 5.9L & 6.7L engines
- Pulls injector straight reducing injector & head damage
- Includes Feed Tube Puller



#### OTC6706

##### Injector Rail Assembly Remover

- Used for removal of the direct injection fuel rail without damage
- The rail assembly must be removed as straight as possible to prevent damaging an injector bore in the cylinder head or the mount assembly
- Similar to EN-49248
- Applications: 2007-2014 General Motors Direct Injection Engines including those used in Pontiac, Saturn, Cadillac and Chevrolet vehicles

## FUEL MANAGEMENT

### Fuel Injection Accessories



**STA74853**  
**Small Schrader Right Angle Adapter with Quick Coupler Plug**

- For late model Ford vehicles with limited access
- Compact



**STA71318**  
**Standard Schrader Hose Assembly with Quick Coupler Plug**

- Fuel Injection Component For TU-480A, TU-443, TU-448, TU-485A

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**STA71319**  
**Small Schrader Hose Assembly with Quick Coupler Plug**



**STATU15-17**  
**Diesel Adapter M24-1.50 Injector**

- Use with our Diesel Compression Tester TU-15
- QC plug for easy connectivity

Applications: Cummins Case "B" Series: 2.9L, 3.9L, 5.9L Dodge/Cummins: (1989-98) 5.9L J.I. Case: 2.9L, 3.9L, 5.9L



**KAS3350**  
**Injection Height Gauge Set**

- Injector Height Gauge
- For use on Detroit diesel engines
- Used on 50 & 60 series engines

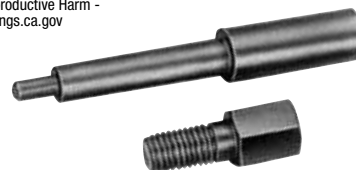
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**OTC7121**  
**Fuel Injector Nozzle Puller**

- Designed to remove pencil nozzles used in many agricultural and construction engines
- Straight, even pulling power without damaging components
- Works on Case, Caterpillar, GM, John Deere, Waukesha and White diesel engines

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**OTC5024**  
**Navistar Fuel Injector Sleeve Remover / Installer**

- For removing and installing the injector sleeves of International DT466 engines
- The removing tool threads onto a slide hammer with 5/8" - 18 threads to remove sleeves quickly
- The installer seats new sleeves equally fast without damage

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**OTC6707**  
**Injector Seal Installer Adapters**

- Two-piece kit includes tools to properly size the seal and install the seals in the proper groove on the injector tip for leak-free operation
- Works to install both seals on the injector tip.
- Similar to EN-51105
- Applications: 2014-15 Chevrolet Silverado & GMC Sierra V6 and V8, 2015 Chevrolet Suburban/Tahoe, GMC Yukon/XL, 2014 Chevrolet Corvette, 2015 Cadillac Escalade



**CTA7850**  
**Ford Fuel/Temp. Flow Sensor Socket - 19mm**

- The inner hex walls of the socket are machined extra-deep
- Clears the sensor connection bracket for easy removal of the Fuel/Temp. Flow sensor
- Thin-wall design • 3/8" Drive. OAL: 3"
- Application: 2010-2017 Ford Transit Connect

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## FUEL MANAGEMENT

### Fuel Injection Accessories



**OTC6708**  
**Injector Retaining Clip Replacer**

- Removes and installs the injector retaining clips without over-spreading to ensure proper retention of the injector to the rail • Similar to EN-51097
- Applications: 2014-15 Chevrolet Silverado & GMC Sierra V6 and V8 engines, 2015 Chevrolet Suburban/Tahoe, GMC Yukon/XL, 2014 Chevrolet Corvette, 2015 Cadillac Escalade V8 engines

**OTC6710**  
**Fuel Pump Installation Gauge**

- Verifies that the camshaft fuel pump lobe is at base circle position before installing the high pressure fuel pump
- Tool indicates the pump may be installed when it is flush to manifold surface • Similar to EN-51092
- Applications: 2014-15 Chevrolet Silverado & GMC Sierra V6 and V8 engines, 2015 Chevrolet Suburban/Tahoe, GMC Yukon/XL, 2014 Chevrolet Corvette, 2015 Cadillac Escalade V8 engines



**OTC6779**  
**GM Duramax Injector Puller**

- Designed to pull injectors on GM Duramax engines
- Coverage from 2005 to 2011
- Same as Factory Tool J-46594
- Save time with the right tool for the job
- OTC Lifetime Warranty



**OTC6778**  
**GM Duramax Injector Puller**

- Designed to pull injectors on a GM Duramax 6.6L engine, 2001 - 2004
- Similar to Factory Tool J-44639 • OTC Lifetime Warranty

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**SCH11800**  
**BMW Injector Puller**

- Makes removal of injectors on 6 cylinder faster and easier
- Quicker than using the factory tool that needs to be worked down and around the injector
- On the 6 cylinder or 8 cylinder V-8 4.4 liter turbo (N63), the tool will pay for itself in the first few jobs



**OTC6069**  
**Cummins Diesel Fuel Injector Remove Kit**

- Kit contains a fuel injector connector tube remover and fuel injector puller
- The fuel injector connector tube must be removed before removal of the injector, or both will be damaged

Application: 1998-1/2-2002 Dodge pickups and vans with 5.9L 24-valve Cummins diesel turbo engine.



**OTC6067**  
**Ford Injector Remove/Installer Kit**

- Removes and installs injectors without damaging the injector or cylinder head

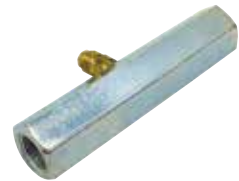
Application: 1994-2003 Ford 3/4- and 1-ton trucks, Super Duty trucks, and vans with 7.3L direct-injected turbocharged (DIT) diesel engine.



**SGT37650**  
**GM Throttle Body Fuel Injection Pressure Tester Adapter**

- GM in-line adapter replaces fuel filter with threads on both ends

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**SGT33850**  
**Ford Multi-Port and Throttle Body Fuel Injection Pressure Tester Adapter**

- Ford adapter for small Schrader test port

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## FUEL MANAGEMENT

### Fuel Injector Cleaning Tools



#### IPADTP20

##### Industrial Fuel Cleaner and Transfer System

- Provides a safe and efficient method of diesel fuel transfer and filtration
- On-board water and particulate blocking filter ensures that all diesel fuel transferred is free from contamination
- Highly accurate, digital flow-meter nozzle for precise measurement
- For truck service and repair, scrapyards, emergency recovery and more
- Secure and save fuel prior to repairs, scrap, storage or sale
- Uses two group 31 batteries (not included)
- Includes: digital flow-meter nozzle, 11' intake hose, 12' output hose, (2) 10 micron water blocking filters, fire extinguisher



## LAUNCH

#### LAU303010007

##### X-SonicClean BT Fuel Injector Diagnostics and Cleaner

- Injector Cleaning and Diagnostics - not sure if that injector is really bad? Simply test it with "See The Spray" Diagnostics and restore to like new performance with the X-SonicClean Ultrasonic cleaner
- Spray Pattern Testing and Evaluation - Visually monitor/ evaluate spray patterns and accurately measure injector delivery to correctly diagnose the condition and performance of the injectors
- Injection Flow and Volume Test - Measure and compare the volume and flow of each injector via graduated cylinders. Match injectors for peak performance.
- Auto Test - Computerized test sequence utilizing variable RPM and Pulse width to simulate true conditions (acceleration, deceleration and idle phases).
- Ultrasonic Cleaning - Injectors are pulsed during the Ultrasonic cleaning process removing all carbon deposits, rust and contaminants



#### Professional Diesel Injector-Seat Cleaning Kits

- 17-piece kit includes Helix Brushes, Two-Stage Brushes, Bore Brushes, and SWAB-EEZ®
- Specially designed to clean injector-seats and bores on most light, medium, and heavy-duty diesel motors
- Removes rust, carbon, and other debris from seats and cups without damage
- Driver handle features a spring-loaded, quick-lock coupler
- SWAB-EEZ® included for cleaning and polishing injector bores and cups

This assortment of specialty brushes, drivers, extensions, and SWAB-EEZ® is ideal for removing carbon, rust, and other debris from injector seats, bores, and cups. Three distinct types of brushes include: Helix Brushes for deep seat cleaning, Two-Stage Brushes for seat and inner seat hole cleaning, and Bore Brushes for bore and tube wall cleaning. The 1/4" drive hex shaft allows for quick interchange of brushes, drivers, extensions, and the use of Low Speed drills. Also included are 400 assorted, low-lint, flexible, industrial-grade SWAB-EEZ® ranging from 5mm to 20mm in diameter.

**IPA8090S** - Stainless Steel

**IPA8090B** - Brass



IPA8090B

IPA8090S

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## FUEL MANAGEMENT

### Fuel Injector Cleaning Tools



#### OTC7649A Fuel Injector Cleaning Kit

- Stainless Steel Construction with wide throat to reduce spillage - safely holds up to 22 oz.
- Easy-to-read 3-1/2" gauge for setting accurate delivery pressure
- Includes our most common rail adapters for many domestic and import applications. Also includes decarbonizing adapter
- Includes Application Guide providing OE specs and OTC adapter reference for all gasoline vehicles in USA - Model Years 1997-2013
- Easy to read 3-1/2" gauge for setting accurate delivery pressure

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#### OTC7448A Fuel Injection Cleaner

- Fuel injector cleaning system
- Connects directly to your shop air
- When used with recommended solvent, will clean injectors more effectively than aerosol methods
- Includes gauge, hose and instructions
- Limited Lifetime Warranty

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#### OTC7000A Pro Inject-R Kleen Fluid 16 oz Can

- Used in OTC canister-type cleaning devices
- No. 7000 - Pro Inject-R Kleen injector cleaning fluid
- Ready to use right out of the can; no mixing
- NOTE: Not for use as a fuel additive
- DO NOT pour into fuel tank

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#### MITMV5565 Fuel Injection Cleaning Kit with Hose

- Quickly and cleanly removes and prevents fuel injector deposits, and loosens and dissolves carbon on intake manifold and valves
- Uses standard shop-air to deliver cleaning solution directly into the fuel stream or spray it into the air induction system
- Enhances engine performance, improves fuel economy, reduces maintenance and improves emissions
- High quality pressure gauge and adjustable regulator combination ensures proper delivery of cleaning solution
- Functions on most domestic and import cars with high or low pressure fuel systems

Kit is made from durable steel and diecast aluminum construction. Kit includes: fuel injection cleaner assembly; manifold (includes pressure regulator and gauge, relief fitting, air nipple, inlet and outlet valves); 32 oz. canister; connection hose, wall mount bracket and user's manual (English, French and Spanish).



#### STATU-470B Fuel Injection Cleaner

- Check the vehicle fuel pressure with the right hand gauge, and easily set cleaning pressure with the left hand gauge
- Restores the original spray pattern more effectively, giving improved performance, fuel economy, and emission tests
- Cleans carbon from intake valves, fuel passages, and cylinders with a professional carbon cleaning solution
- Includes check valve for added safety
- Updated design in more user friendly

Set includes steel braided teflon hose that resists solvents, 20 oz. capacity bottle, and redesigned gauge boots for added protection.

## FUEL MANAGEMENT

### Fuel Transfer

## FILL-RITE

### FILSD62 Rotary Vane Manual Transfer Pump

- 2" NPT threaded bung adapter
- Gooseneck discharge spout
- 1" polymer suction pipe adjusts for 15 to 55 gallon drums
- Lightweight die-cast aluminum body



### FILFR112 Hand Rotary Pump

- 10 gallons per 100 revolutions
- UL approved • Cast iron rotor
- Can be used to pump in reverse direction
- Pump easily mounts to a standard drum with 2" NPT. Anti-siphoning device, hose with static wire and a 20" to 34-3/4" telescoping suction pipe
- Padlockable and is adaptable for drums, kegs or storage tanks



### FILFR152 Piston Style Fuel Transfer Hand Pump

- Lightweight cast aluminum body
- Stainless steel inner liner
- "Easy mount" 2 tank adapter
- Corrosion proof adjustable suction pipe
- Pump flow can be reversed by rotating piston 180°
- delivers up to 20 GPM per 100 strokes



## FILL-RITE

### FILFR1210G 12 Volt DC Pump with Manual Nozzle

- Up to 15 GPM
- 1/4 HP motor
- Heavy duty cast iron construction
- 2" Threaded base for tank mounting
- Diesel/Gasoline/Kerosene/E15/BD up to B20
- Explosion-proof UL/cUL listed 1/4 HP motor
- Comes complete with 12' static wire hose and manual nozzle



### FILSD602G 115V AC Pump with Manual Nozzle

- 13 GPM (49 LPM) • 1/4 HP Motor
- UL/cUL listed pump and motor
- Heavy duty cast iron construction
- Diesel/Gasoline/Kerosene/E15/BD up to BD20
- Designed for tank or barrel mounting • 1 Year Warranty
- 10' hose, nozzle and 1" adjustable polymer suction pipe
- 2" NPT, no tank adapter needed



### FILFR1612 DC Power Cast Iron Rotary Vane Pump

- Self Priming
  - Includes battery cable with clips and 30 amp fuse
  - Inlet and outlet size 3/4" NPT
  - Compatible with Diesel and Antifreeze
- Cast iron and produces a flow rate of 10 GPM. It is powered by DC voltage. Battery cable with clips is included. The pump is compatible with diesel and antifreeze fluids.



### PBT71196 QuickFlow Drill Pump

- Heavy duty design • Positive priming
- Use with cordless drill to pump most all fluid types
- Universal adaptor allows all drill sizes to be quickly mounted to pump
- One hand operation leaves free hand to manage suction and discharge hoses

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## FUEL MANAGEMENT

### Noid Lights



#### AST7898

##### Deluxe Noid Lite and GM Signal Test Light Set

- Economic way to check electronic fuel injection (EFI) signals
- Quickly and easily checks for systems of GM TBI, Bosch PFI Ford TBI, GM PFI, Geo TBI and GM SCPI
- To test just disconnect the fuel injectors, plug the Noid Lite into injector wiring harness then crank the engine
- Normal voltage is indicated by flashing light which is visible from passenger compartment

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#### LI527800

##### Universal Noid Lite

- One-person operation
- Two probe adapters screw on to form larger diameter probes
- Versatile tool tests throttle body injectors, ported fuel injectors and sequential central port injectors

Attach tool to the car body or windshield with suction cup. View the Noid Light from the front seat while cranking the ignition.

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#### OTC3054E

##### 11 Piece Noid Lite Set

- Simplest method for eliminating the EFI system or idle air control as possible faults on no-start vehicles
- Disconnect the fuel injectors, plug in a Noid Lite, and crank the engine; a flashing light indicates normal pulsing voltage
- Expanded set of eight specific Noid Lites covers: GM PFI, Ford TBI, Geo TBI, Bosch PFI, GM TBI, GM SCPI
- And now new applications of Bosch 2 and Multec 2, plus two GM IAC testers
- Includes harness extension for convenient remote viewing



#### OTC3050E

##### Noid Lite Test Kit (8) with Fiber Optic Extension

- Noid Lites are a proven test device to quickly determine if the electrical signal is present at the fuel injector
- Just plug in and turn over the engine; flashing noid indicates good signal
- Expanded set of eight Noid Lites cover: GM PFI, Ford TBI, Geo TBI, Bosch PFI, GM TBI, GM SCPI, and now new applications of Bosch 2 and Multec 2
- Kit comes in molded plastic case and includes a harness extension that allows for convenient remote viewing from the driver's seat

#### OTC7187

##### GM TBI Noid Light

- For GM model 220, 300, 500 series TBI



#### OTC7602

##### GM PFI Noid Light



#### SGT36300

##### Noid Light Set

- Quickly, easily and economically test electronic fuel injection signals
- Supplied with Noid Lights to check GM TBI, Bosch PFI, Ford TBI, GM PFI, Geo TBI and GM SCPI
- Easy to use - just disconnect the wiring to the fuel injectors, install the Noid Light into the injector wiring harness and crank or start the engine. A flashing light indicates normal pulsing voltage. A steady light or no light indicates an electrical problem

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## FUEL MANAGEMENT

### Noid Lights



#### SGT36350

##### In-Line Spark Checker for Recessed Plugs, Noid Lights and IAC Test Lights Kit

- Use to test spark plug circuits, electronic fuel injection signals and idle air control circuits
- Includes SGT23970, In-Line Spark Checker Kit for Recessed Plugs
- 8 Noid lights for checking GM PFI, Ford TBI, GEO TBI, BOSCH PFI, GM TBI, GM SCPI, BOSCH 2 and GM MULTEC 2
- 2 IAC Test Lights for straight and 90° applications
- Quickly diagnose "no start" and engine misses conditions in the electrical fuel injection and spark plug circuits

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#### SGT36330

##### Noid Lights, IAC Test Lights and Spark Checker Kit

- Use to test electronic fuel injection signals, idle air control circuit and spark plug circuits
- Quickly diagnose "no start" and engine miss conditions in the electrical fuel injection and spark plug circuits
- Analyze rough running engines
- Supplied with instructions in a durable, plastic molded storage case

Includes: 8 Noid Lights for checking GM PFI, FORD TBI, GEO TBI, BOSCH PFI, GM TBI, GM SCPI, BOSCH 2 and GM MULTEC 2; 2 IAC Test Lights for straight and 90° applications; and SGT23900, In-line Ignition Spark Plug Checker.

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### Fuel Line Disconnect



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#### SCH13900

##### Cummins 19mm and 22mm Fuel Line Sockets, 2 piece set

- 19mm 12pt 1/2" drive flair nut socket designed for Cummins ISB Fuel Lines
- 22mm 12pt 1/2" drive flair nut socket designed for Cummins ISX Fuel Lines
- Only sockets currently designed to access fuel line fittings for these applications
- Torque high pressure fitting without torque adaptors
- Properly torque fuel line fittings reduce fuel line leaks and damaged fuel lines

This tool is designed to easily torque the lines correctly, reducing if not eliminating, the possibility of a fuel leak or damaging the fuel line, fuel rail, or fittings. The tool will also fit many other engines in the Cummins line-up.



**ASSENMACHER®**  
SPECIALTY TOOLS  
ASTOOL.COM



#### ANRCP2015

##### Fuel Hose Clamp Crimping Pliers

- Used to crimp BMW fuel hose clamps
- Pliers are also used on some outboard boat motors and some lawn mower applications

#### ANR8110

##### 10 Piece Line Disconnect Set

- For removal and replacement of fuel filter, fuel lines, oil cooler lines and transmission oil cooler lines
- Quick line removal
- Anodized aluminum construction

10 - Piece Line Disconnect Set containing the 8010, 8012, 8013, 8014, 8016, 8021, 8022, 8023, 8024, and 8026.



## FUEL MANAGEMENT

### Fuel Line Disconnect



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#### ANR1018

##### 10 Piece Line Disconnect Set

- Anodized aluminum construction
- For R&R of fuel filters, fuel lines, oil cooler lines and transmission cooler lines

Set Includes: 8012, 8013, 8016, 8021, 8022, 8023, 8024, 8026, 8027 and 8028

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#### ANR8013

##### Fuel Line Remover Tool

- For removal of 3/8" fuel lines and feed line from fuel-pump-sending unit
- Quick line removal
- Gold anodized aluminum
- Applicable: 1990 and newer Ford Aerostar, Explorer, and Bronco, 1991 and newer E and F series, 1992 and newer Ranger.



#### ANR8026

##### 5/16" Nissan Fuel Line Disconnect Tool

- Used for disconnecting the fuel line from the fuel rail
- Quick Line Removal
- green-anodized aluminum construction
- Applicable to 2004 and later Nissan Models with a 5/16" Fuel Rail



#### ANR8027

##### Fuel Line Disconnect Tool for GM Duramax

- Applicable: 2011 GM with 6.6 V8 Turbo Diesel Duramax
- Made of orange-anodized aluminum
- Used for removing the fuel line from the indirect fuel injector

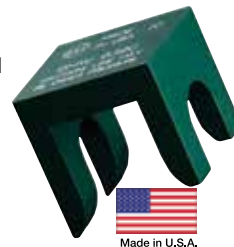


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#### ANRBMW8390

##### BMW Fuel Line Disconnect Tool

- Used to disconnect fuel lines on BMW models and is especially useful on the 2006-2011 BMW 3 series models and 2006-2009 X3 models (E90 and E83)
- Green anodized finish



## Astro



#### AST7892

##### 8 Piece Fuel and Transmission Line Disconnect Tool Set

- Anodized aluminum
- Separate fittings on fuel lines, fuel filters and fuel tank return lines
- Sizes: 1/4", 5/16", 3/8" and 1/2" oil cooler line disconnect tool
- Separates automatic transmission oil cooler lines on Ford Taurus and Escort with AXOD and ATX transmissions
- Fuel line disconnect tool allows damage free fuel line quick connect coupler release
- Fits any 5/16in. or 3/8in. fuel line found on GM, Ford or Chrysler cars
- Ford fuel line coupling tool provides easy, damage-free fuel line separation
- Works on 1990 and newer Ford Ranger and Explorers with 4.0L, 6 cylinder engines
- Disconnect tool allows quick separation of quick connectors found on radiators, transmissions and power steering lines
- Release the fingers on transmission-to-radiator oil cooler line easily without damage to the hose or connector
- Works on 1986 and newer Ford Taurus's and Mercury Sables with an AXOD, AOD or ATX transmission
- Quick disconnect coupler tool slides down the line and into the connector separating the clip apart without damaging the quick connect seals allowing removal of clip
- Works on late Model Ford and GM vehicles

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## FUEL MANAGEMENT

### Fuel Line Disconnect

# Astro



#### AST78930

##### 15 Piece Master Disconnect Kit

- Includes Oil Cooler Line Remover
- Made of Anodized aluminum
- Packaged in a blow molded case

##### Fuel & Transmission Line Disconnect Set

- Separate fittings on fuel lines, fuel filters & fuel tank return lines
- Sizes: 1/4", 5/16", 3/8" and 1/2"
- Separates automatic transmission oil cooler lines on Ford Taurus and Escort with AXOD and ATX transmissions
- Fuel line disconnect tool allows damage free fuel line quick connect coupler release
- Fits any 5/16" or 3/8" fuel line found on GM, Ford or Chrysler cars
- Ford fuel line coupling tool provides easy, damage-free fuel line separation
- Works on 1990 and newer Ford Ranger and Explorers with 4.0L, 6 cylinder engines
- Disconnect tool allows quick separation of quick connectors found on radiators, transmissions and power steering lines
- Releases the fingers on transmission-to-radiator oil cooler line easily without damage to the hose or connector
- Works on 1986 and newer Ford Taurus and Mercury Sable with an AXOD, AOD or ATX transmission
- Quick disconnect coupler tool slides down the line and into the connector; separating the clip apart without damaging the quick connect seals allowing removal of clip
- Works on late model Ford and GM vehicles

##### Air Conditioning & Fuel Line Disconnect Tool Set

- Sizes 5/16", 3/8", 1/2", 5/8", 3/4" and 7/8"
- Six distinctive tools allow the disconnecting of spring lock couplings air conditioning lines found on Ford and Chrysler
- Allows usage on fuel line quick connect couplings found on GM, Ford, and Chrysler
- 5/16" Disconnect Tool allows usage on push lock connectors found on Ford radiators and transmission lines



#### CTA3476

##### Subaru Fuel Line Disconnect Tool

- Flexible plastic design will not damage fuel lines like other tools
- Services 2004 and up Subarus with 2.0 and 2.5L engines



#### CTA1809

##### Fuel Line Flex Sockets

- Specialty sockets flex at 45° to securely grip to the direct fuel line
- Sockets fit around direct fuel line without losing torque
- Includes sizes: 11, 13, 14, 15 & 17mm
- Packed in blow mold case



#### CTA1810

##### Ford Fuel Line Disconnect Tool

- Both ends required due to limited clearance between fuel line connector end and fuel rail
- Services Transit 2.0L, 3.5 GTDI, 6.2L Boss engines.
- 5/16" x 3/8"
- Flexible plastic design

# LANG

TOOLS  
Professional Tools For 4 Generations



#### KAS548

##### International Maxx Force Fuel Line Release Tool

- Works on International Maxx Force engines series 11 & 13
- Heat treated forks to eliminate deflection
- Plastisol dipped grips for comfort • 1 year warranty

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## FUEL MANAGEMENT

### Fuel Line Disconnect

#### GW GEARWRENCH



##### KDT41500 12 Piece Fuel and Transmission Line Disconnect Tool Kit

- Disconnect tools that separate fittings on fuel, filter, transmission, air conditioning systems, and fuel tank return lines on most vehicles, trucks, and other heavy equipment
- Low profile anodized disconnects - provides greater versatility
- Removable hinge style lid - allows for convenient storage in tool box drawers
- Laminated bilingual instruction card integrated into case design - handy reference of application information
- Individual part numbers molded into case for easy reference

##### Set Includes:

- |       |                                                         |
|-------|---------------------------------------------------------|
| 3321  | Fuel Line Quick Disconnect Tool                         |
| 3408D | Ford Fuel Line Coupling Tool                            |
| 3413D | Ford Clutch Coupling Tool                               |
| 3890D | Chrysler Quick Disconnect Tool                          |
| 3891D | GM Transmission Oil Cooler Line Disconnect Tool         |
| 3892D | GM Hydraulic Clutch Line Disconnect Tool                |
| 3893D | Transmission Oil Cooler Line Disconnect Tool            |
| 3894  | Ford Auto Transmission to Radiator Line Disconnect Tool |
| 3895D | Disconnect for Fuel Lines Sizes 1/4" - Black            |
| 3896D | Disconnect for Fuel Lines Sizes 5/16" - Red             |
| 3897D | Disconnect for Fuel Lines Sizes 3/8" - Gold             |
| 3898D | Disconnect for Oil Cooler Line - Blue                   |

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##### KDT61059 2 Piece Fuel Line Kit

- 3321- Fuel line quick disconnect tool
- 3290 ford air conditioning and fuel line spring lock coupling tool
- The 3321 fits 5/16" to 3/8" fuel lines
- The 3290 releases locking mechanisms on: 3/4", 5/8", 1/2" and 3/8"



This 2 piece fuel line kit includes disconnect tools for use on many ford, GM and Mazda vehicles. Also used on Chrysler and Ford A/C line adapters. Tools are available individually.

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#### GW GEARWRENCH



##### KDT3321 Fuel Line Disconnect Tool

- Tool releases the fuel line locking mechanism on 1989 and newer GM, 1990 and newer Ford and some 1990 and newer Mazda vehicles
- Fits Chrysler Company fuel-injected vehicles (except imports)
- Fits 5/16 and 3/8 fuel lines

#### KTOOL INTERNATIONAL



##### KT175300 Fuel Line Quick Connect Assembly Tool

- Attaches fuel line connectors to OEM nylon fuel lines
- Works with OEM fuel line connectors and fuel lines
- Four adapters included
- Will hold straight and 90° connectors
- Portable or can easily be bench mounted
- Large handle for easy operation
- 1-year warranty

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##### KT175310 2 Piece Fuel Line Disconnect Tool

- Designed to remove stubborn fuel lines from high-tech cars and trucks
- Constructed of aircraft-grade aluminum for durability, yet makes them extremely lightweight and easy to use
- Low-profile design provides access to the tightest spaces
- Opening at widest point is 3/4" narrowing to 1/8"
- Universal application with 2-piece set

Set features a 90° fuel line disconnect tool and a straight fuel line disconnect tool.

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## FUEL MANAGEMENT

### Fuel Line Disconnect



#### KT175306 Steel Line Stopper Kit

- Universal steel line stopper
- 5/16", 3/8", 1/2", and banjo fittings (10.4mm and 18mm)
- Suitable for clamping and sealing steel lines for all automotive fluids
- Provides an effective seal to steel lines when disconnected
- Prevents fluid loss and contamination of the work area

Suitable for clamping and sealing steel lines on braking system, cooling system, fuel line, air conditioning line, etc.

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#### OTC303-625 Quick Fuel Line Disconnect Tool

- Use to disconnect the high pressure oil line from the cylinder head
- Works on 1998 - 2003 Ford vans and trucks with 7.3L direct-injected, turbo-charged (DIT) diesel engines



#### SRRFLS330 4 Piece Spring Loaded Fluid Stopper Kit

- Prevents messy leaks and contamination during service
- Universal design used to plug lines 3/16-1/2
- Perfect for line repairs including brake, coolant, transmission, & fuel lines
- Also works on banjo fittings up to 1/2"
- Spring loaded stopper installs in seconds

Kit includes: SRRFLSBAN, SRRFLS516, SRRFLS38 and SRRFLS12.

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#### LIS39900 Master Disconnect Set

- Contains 8 popular disconnect tools for A/C and fuel lines
- A complete set of disconnect tools that can be stored in a handy blow-molded case
- All disconnect tools are also available individually

Kit includes: 37000 AC/Fuel line disconnect set, 39400 Angled AC/Fuel line disconnect set, 35000 GM Flex fuel line disconnect, 37500 GM fuel line disconnect, 39930 5/16" & 3/8" scissors disconnect, 39940 Coupler disconnect and 39960 Ford transmission line disconnect

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#### LIS34750 Low Profile Fuel Line Disconnect Set

- Disconnects the quick connect fuel lines in hard-to-reach places
- 3/8" adapters work on 5.3 liter Suburban, Tahoe, Yukon, Avalanche and select Silverados, Sierras and other GM fuel lines
- 5/16" adapters work on Ford and Chrysler applications



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#### LIS35000 Fuel Filter Disconnect for GM

- Fits GM Flex Fuel systems
- Disconnects the fuel line from the fuel filter on 5.3L Suburban, Tahoe, Yukon, Avalanche and select Silverados and Sierras



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#### LIS37500 GM Fuel Module Disconnect Tool

- Disconnects the fuel module on 98 and later GM full size pickups, Suburban and Tahoe
- The 2 piece design allows access to the connectors
- Fits 3/8" and 5/16" connector sizes
- Will also fit all other 3/8" and 5/16" applications



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## FUEL MANAGEMENT

### Fuel Line Disconnect



#### LIS39850

##### Master Plus Disconnect Set

- Master Plus Disconnect set contains the most popular disconnect tools for A/C, Fuel, Transmission, and Oil Cooler lines
- A complete set of disconnect tools that can be stored in a handy blow-molded case
- All disconnect tools are also available individually

#### LIS37000

##### Fuel Line & Air Conditioning Disconnect Tool Set

- Set of six tools which disconnect the spring lock couplings on Ford and Chrysler air conditioning line
- Also works on fuel line quick connect couplings found on GM, Ford, and Chrysler
- The 5/16" size fits on push lock connectors found on Ford radiators and transmission lines. Easy to use in confined spaces. Set includes six sizes: 5/16", 3/8", 1/2", 5/8", 3/4" and 7/8"



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#### LIS39400

##### Angled Disconnect Tool Set

- Works on spring lock couplings found on Ford & Chrysler AC lines
- Also, works domestic and import vehicles
- The handles are angled to access tight spot
- Made of durable plastic that is resistant to fuels and solvents, tools won't wear out



Six sizes include 5/16", 3/8", 1/2", 5/8", 3/4" and 7/8"

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#### LIS22930

##### 3/8" Jiffy-tite Disconnect, Low Profile

- Tool fits the most popular Jiffy-tite fittings used in newer GM vehicles, many newer Daimler Chrysler and some newer Mercedes vehicle
- Fittings are found on oil cooler lines used on transmissions and radiators and on other applications
- Also found on Harley-Davidson V-Rod

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#### LIS39210

##### Main Fuel Line Disconnect for Toyota and Nissan

- Disconnects the 5/16" main fuel line from the fuel rail on the following: Toyota Echo, Scion xB, xA, TC, Solara, Corolla, Sequoia, Celica, RAV 4, Prius, Camry, MR2, Matrix, Tundra and Highlander Also for 2004 and newer Nissan models with a 5/16" fuel rail



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#### LIS63000

##### Fuel Tank Lock Ring Tool

- A stout tool to remove and install plastic fuel tank lock rings from 4" to 7-1/4" without damage
- Channel design on body allows the legs to adjust to fit a wide range of applications and keeps the drive centered
- Works on the new smaller GM serrated rings and traditional rings

#### LIS37160

##### Disconnect Pliers

- Disconnects fuel line and evap line fittings with tabs that must be depressed to disengage
- Low-profile design with 85° bend allows the tool to fit between the top of the fuel tank and vehicle
- Works on Delphi two tab connectors and some import vehicles
- Can also be used on some electrical connectors

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#### LIS37300

##### Fuel and AC Disconnect Pliers

- Unique design provides extra leverage when disconnecting quick connect coupling air conditioning and fuel lines
- The pliers' forks have different sized openings so the tool can be turned around to fit single or two step collar designed connector lines
- Use with 5/16", 3/8" or 1/2" adapters from the Lisle 37000 or 39400 Disconnect Tool Sets

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## FUEL MANAGEMENT

### Fuel Line Disconnect



#### MLK457705 5 Piece Line Wrench Kit

- Completely Drop-Forged
- High Quality Chrome Finish
- Both Ends with Inner Hex
- Stepped Flange Shape
- Perfect for brake lines, servo steering lines, air condition lines, hydraulics lines
- Kit Includes 8, 9, 10, 11, 12 mm



#### OTC4495 A/C and Fuel Line Disconnect Set

- Use to remove A/C and fuel line quick disconnect fitting from hard-to-reach areas
- Six sizes (5/16", 3/8", 1/2", 5/8", 3/4", and 7/8") available to work on many import and domestic vehicles



#### OTC7361 2 Piece Ford Chrysler GM Fuel Line Disconnect Set

- Fits 5/16" or 3/8" fuel lines on Chrysler, Ford or GM vehicles
- Includes one each of 5/16" gray and 3/8" blue



#### OTC4506 Fuel Line Clamp Set

- Set of two pinchers
- Used to quickly shut off flow from vacuum, brake, and fuel lines
- Enables you to pinch and hold hose without damage



#### OTC6509 Fuel Line Disconnect Tool for 3/8" and 5/16" Applications

- Special low profile design works in close quarters
- Designed to access the center port on GM fuel tank sending unit



Works in close quarters on GM, Ford, and Chrysler vehicles where there is limited clearance between the fuel line fittings and fuel filters, fuel rails, or sending units. Will also service 1999 thru current GM pickups, and 2000 thru current Suburban, Tahoe, and Yukon gasoline vehicles.

### Fuel Line Clamps / Pliers



#### Fuel Line Quick Connect - Straight / 90-degree

Part #	Description	Qty
KT105100	Straight: Female 1/4" - Male 5/16"	5
KT105101	Straight: Female 5/16" - Male 5/16"	5
KT105104	Straight: Female 3/8" - Male 5/16"	5
KT105103	Straight: Female 5/16" - Male 3/8"	5
KT105202	Straight: Female 5/16" - Male 3/8" Ford OE Style	5
KT105124	Straight Female 5/16" - Male 5/16"	5
KT105125	Posi-Lock Straight Female 3/8" - Male 3/8"	5
KT105105	90-degree: Female 5/16" - Male 5/16"	5
KT105107	90-degree: Female 3/8" - Male 5/16"	5
KT105108	F90-degree: Female 5/16" - Male 3/8"	5
KT105126	Posi-Lock Bent Female 5/16" - Male 5/16"	5
KT105127	Posi-Lock Bent Female 3/8" - Male 3/8"	5

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#### Fuel Line Retainer Clips

Part #	Description	Qty
KT105375	Fuel Line Retainer Clip 3/8" GM	10
KT105376	Fuel Line Retainer Clip 5/16" GM	10
KT105379	Fuel Line Retainer Clip 1/4" Ford	10
KT105380	Fuel Line Retainer Clip 1/2" Ford	10
KT105381	Fuel Line Retainer Clip 10.5mm Ford Truck	10
KT105382	Fuel Line Retainer Clip 13mm Ford Truck	10
KT105383	Fuel Line Retainer Clip 5/16" Ford (White)	10
KT105384	Fuel Line Retainer Clip 3/8" Ford (Black)	10

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## FUEL MANAGEMENT

### Fuel Line Clamps / Pliers



#### Fuel Sender Adapters

Part #	Description	Qty
<b>KTI05370</b>	Fuel Sender Adapter to Rubber Fuel Line - Female 14mm to Male 5/16"	5
<b>KTI05371</b>	Fuel Sender Adapter to Rubber Fuel Line - Female 16mm to Male 3/8"	5
<b>KTI05226</b>	Fuel Sender Adapter to Nylon Fuel Line - Female 14mm to Male 5/16"	5
<b>KTI05228</b>	Fuel Sender Adapter to Nylon Fuel Line - Female 16mm to Male 3/8"	5
<b>OTC6763</b>	Ford 6.0L High Pressure Fuel Rail Adapters	2

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#### Fuel Line Clamps

Part #	Description	Qty
<b>KTI05118</b>	Fuel Line Clamp 360° 1/4" for Nylon & Rubber Hose	10
<b>KTI05119</b>	Fuel Line Clamp 360° 5/16" (8mm) for Nylon & Rubber Hose	10
<b>KTI05120</b>	Fuel Line Clamp 360° 3/8" (10mm) for Nylon & Rubber Hose	10
<b>KTI05177</b>	Fuel System Fuel Injection Hose Clamps 1/4"	10
<b>KTI05179</b>	Fuel System Fuel Injection Hose Clamps 5/16" (8mm)	10
<b>KTI05181</b>	Fuel System Fuel Injection Hose Clamps 3/8" (10mm)	10

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#### KTI05205 1/4" x 25' Roll Fuel System #12 Rated Nylon Fuel Line (EA)

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#### Fuel Line Fittings

Part #	Description	Qty
<b>KTI05112</b>	Brass Compression Union 1/4" Nylon to Nylon	5
<b>KTI05113</b>	Brass Compression Union 5/16" Nylon to Nylon	5
<b>KTI05114</b>	Brass Compression Union 3/8" Nylon to Nylon	5
<b>KTI05115</b>	Brass Compression Union 1/4" Nylon to Steel	5
<b>KTI05116</b>	Brass Compression Union 5/16" Nylon to Steel	5
<b>KTI05117</b>	Brass Compression Union 3/8" Nylon to Steel	5
<b>KTI05109</b>	Nylon Fuel Line Brass Splice Joiner 1/4"	5
<b>KTI05110</b>	Nylon Fuel Line Brass Splice Joiner 5/16"	2
<b>KTI05111</b>	Nylon Fuel Line Brass Splice Joiner 3/8"	5
<b>KTI05159</b>	Nylon Fuel Line Brass Splice Joiner 3/8"	1
<b>KTI05165</b>	Fuel System Rubber Hose Barbed Connector 3/16"	5
<b>KTI05167</b>	Fuel System Rubber Hose Barbed Connector 1/4"	5
<b>KTI05169</b>	Fuel System Rubber Hose Barbed Connector 5/16"	5

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## FUEL MANAGEMENT

### Fuel Line Clamps / Pliers



#### Fuel Line Viton O-Ring

Part #	Description	Qty
<b>KT105257</b>	Fuel Line Viton O-Ring 3/8" GM	2
<b>KT105259</b>	Fuel Line Viton O-Ring 5/16" GM	2

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#### Fuel System Adapters

Part #	Description	Qty
<b>KT105136</b>	Fuel System Adapter Steel to Rubber or Nylon Line 1/4"	5
<b>KT105138</b>	Fuel System Adapter Steel to Rubber or Nylon Line 5/16"	5
<b>KT105141</b>	Fuel System Adapter Steel to Rubber or Nylon Line 3/8"	5
<b>KT105143</b>	Fuel System Adapter GM 14mm to 5/16" to Nylon or Rubber Line	5
<b>KT105145</b>	Fuel System Adapter GM 16mm to 3/8" to Nylon or Rubber Line	5
<b>KT105149</b>	Fuel System Adapter 3/8" Nylon to 3/8" Rubber	5

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#### KT105225 Fuel Filter Repair Lines 180-degree 3/8" x 6-1/2" 16mm (GM)

- 6-1/2" long
- 16mm male fitting x 3/8" line
- Fits GM vehicles
- Pack of 5



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\*except KT105372, KT105373 and KT105374



#### Fuel Filter Line Repair Kits

Part #	Description	Qty
<b>KT105209</b>	Steel Fuel Line Repair Kit w/14mm Fitting and O-ring 5/16 Line x 9"	5
<b>KT105211</b>	Steel Fuel Line Repair Kit w/14mm Fitting and O-ring 5/16 Line x 18"	5
<b>KT105213</b>	Steel Fuel Line Repair Kit w/14mm Fitting and O-ring 5/16 Line x 30"	5
<b>KT105215</b>	Steel Fuel Line Repair Kit w/16mm Fitting and O-ring 3/8 Line x 9"	5
<b>KT105217</b>	Steel Fuel Line Repair Kit w/16mm Fitting and O-ring 3/8 Line x 18"	5
<b>KT105219</b>	Steel Fuel Line Repair Kit w/16mm Fitting and O-ring 3/8 Line x 30"	5
<b>KT105221</b>	Steel Fuel Line Repair Kit w/Quick Disconnect 5/16" x 18 GM/Ford	5
<b>KT105372</b>	Nylon Fuel Line Repair Kit Straight 12" Length Female 3/8" x Male 5/16"	5
<b>KT105235</b>	Nylon Fuel Line Repair Kit Straight 12" Length Female 3/8" x Male 3/8"	5
<b>KT105243</b>	Nylon Fuel Line Repair Kit Straight 12" Length Female 5/16" x Male 5/16"	5
<b>KT105233</b>	Nylon Fuel Line Repair Kit Straight 12" Length Female 5/16" x Male 3/8"	5
<b>KT105237</b>	Nylon Fuel Line Repair Kit 90° 12" Length Female 3/8" to Male 3/8"	5
<b>KT105245</b>	Nylon Fuel Line Repair Kit 90° 12" Length Female 5/16" to Male 5/16"	5
<b>KT105373</b>	Nylon Fuel Line Repair Kit 90° 12" Length Female 3/8" x Male 5/16"	5
<b>KT105374</b>	Nylon Fuel Line Repair Kit 90° 12" Length Female 5/16" x Male 3/8"	5
<b>KT105253</b>	Fuel Line Nylon Splice 3/8 Line x 18" Long GM/Ford/Chrysler	5
<b>KT105255</b>	Fuel Line Nylon Splice 5/16 Line x 18" Long GM/Ford/Chrysler	5

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## BODY MECHANICAL

### Door Tools



#### SCH66200

##### GM Door Hinge Bushing Installer

- Easily install replacement silicon bronze bushings on door hinges in restricted areas
- Installs bushings accurately and guides / holds the bushing in place
- Can be used with pliers or small hammer to install bushing
- Tool allows access to the restricted area of the hinge that is not accessible for a straight and true installation
- Works on GM vehicles that have replaceable bushings

With this unique tool you can easily install the replacement silicon bronze 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 squeezes it with pliers to install the bushing. Works on GM vehicles that have replaceable bushings including the following: Small pick-ups (S10 and Sonoma) 1982-2004; 1/2 and 3/4 ton trucks 1980-1999; One ton trucks 1980-2001; Blazer 1980-2005; Suburban 1980 and later; Tahoe 1980 and later; Vans (Astro & Express) 1980 and later; Avalanche 2002 and later.



#### SGT82350

##### Door Aligner Tool

- Align car and truck doors with either bolted or welded hinges in seconds by using leverage
- Quickly and easily mounts in place with no special tools
- Patented feature pulls door against tool to prevent distorting the metal around latches
- Curved handle allows access in restricted areas
- Includes special pin for truck doors

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#### SGT87675

##### Door Spring Tool

- Use to remove and install the door hinge springs found on late model General Motors cars and light trucks (with larger diameter springs)
- Can be used with a 1/2" open end or ratcheting box wrench

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#### LIS18600

##### Door Handle and Window Clip Remover/Installer

- Removes and installs door handle and window crank clips
- Works on GM, Ford and others using the common "C" type clip
- Helps prevent damage to door panel upholstery; opposite end firmly holds clip for easy installation

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#### LIS65800

##### Door Aligning Tool

- Comes with two-headed pin adapter for both large and small latches
- Specially designed handle, for optimum leverage, makes adjustment fast and easy
- Adjusts door hinges on most all cars and light trucks

This tool will adjust doors with either bolted or welded hinges. Simply slide pin end of tool into door latch and close door until tool engages door striker. Now raise or lower tool handle to align door. It's simple to use and handy to have.

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#### LIS35200

##### Door Handle and Window Clip Remover/Installer Pliers

- For removing most windshield molding clips and door handle clips
- Releases clips to remove chrome molding on most windshields and rear glass
- Offset handle permits easy access to molding clips
- Slips under door handle without damage to panel material



#### LIS34920

##### Door Latch Release Tool

- This tool is used to release the cable from the handle assembly so the door panel can be removed
- The tool is designed to work on 2007-2013 Chevy and GMC pickups, Suburban, Tahoe, Avalanche and Yukon vehicles

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## BODY MECHANICAL

### Door Tools

# OTC



#### OTC6785 Euro Door Handle Kit

- This kit contains the tools needed to service most door hinges and door handles on Audi, Mercedes-Benz, Porsche, and Volkswagen vehicles

Kit includes: A ratchet wrench with three 12-point bits (4 mm, 8 mm, 10 mm), one T40 and one T45 TORX® bit; a T30 TORX® long handled driver; and a T20 TORX® T-handle driver; T30 driver, 14" long; T20 driver, 9-1/2" long; hex ratchet, 9-1/2" long.



#### OTC6644 Door Handle Spring Retainer

- This tool allows for door handle replacement without having to remove the interior door panel
- The tool installs into the door handle cavity and under the handle return spring to prevent it from unloading
- This tool allows for door handle replacement without having to remove the interior door panel on 2014 and later Cadillac ATS and Escalade, Chevrolet Colorado, Impala, Silverado, Suburban and Tahoe models



#### STC21890 Skin Zipper™ Door Skinning Tool

- New Air Hammer driven door skinning tool that skins doors in less than 10 minutes using Skin Zipper's self lubricating reinforced Nylon head that will crimp regular or adhesive bonded skins
- The Skin Zipper crimps the edge tightly for a professional finish with no damage to the skin in an easy two step process
- Skin Zipper reduces technician arm fatigue from hammer and dolly method as well as door refinishing time
- The Skin Zipper head will skin approximately 10 door skins and is easy to replace when it wears out
- Saves the technician arm fatigue and up to 60 minutes of labor and assembly time by easily skinning the door with minimal refinish required to paint and/or reapply e-coating

# STECK

Innovative autobody tools and equipment



#### STC21835 Door Hinge "Pin Popper"

- Removes door hinge pins FAST drives out even stubborn hinge pins
- Direct impact clearance for door panels
- Works on all GM cars with removable hinge pins
- Includes pin puller to remove loosened pins



#### STC21825 Bushing Tool

- Bushing tool's off-set design allows for easy access to both door half and body half hinges to easily punch out bushings and maintains bushing alignment for quick installation
- Saves technicians up to 20 minutes per repair and minimizes bushing breakage
- Super tough alloy steel



#### STC21910 Car and Light Truck Door Spring Tool

- Safest tool available for coil springs in GM Doors
- Compresses spring for easy, safe removal
- Slides safely enclose spring
- Deep reach version for GM B-Body
- Heat-treated, high carbon steel



#### STC17000 Door Jammer

- Hold the door open while you hammer, pull, grind, sand or paint
- For door and deck lids
- Hold solid
- Fits any size latch

#### STC21845 EZ Store Door Alignment Tool

- Saves space, fits easily into your tool drawer, no long, heavy bar to store
- Uses your breaker bar for leverage



# TITAN



#### TIT15040 Door Spring Tool

- Designed to quickly and easily remove or install car door hinge springs
- Services GM cars and GM light duty trucks
- Can be used with a 1/2" open end or ratcheting box wrench

## BODY MECHANICAL

### Door Tools



**WLMW84603**

**GM Door Spring Tool**

- Door spring tool for GM cars and trucks
- Use with socket or wrench



**VIMV614**

**Door Panel Tool "V" Notch**

- "V" notch stainless steel blade
- Blaze/ black handle

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### Lockout Tools



"The Undisputed Leader in Specialty Tools"

**AETMTCOS**

**Master Technician Car Opening Set**

- Created specifically for the mechanic shop
- Top brand used by police, fire department, locksmiths, towers and more
- Heavy duty carrying case included
- Comes with 2 long reach tools and Access Smart Light
- Includes car opening quick manual and link to instructional videos



**AETOHJS4LC**

**One Hand Jack Set with Long Case**

- Most popular car opening kit in the world
- Open most vehicles in the road
- Includes Quick Training DVD
- Includes Quick Manual
- Comes with Heavy Duty Carrying case

The One Hand Jack Set is one of our most popular selling products. It is designed to include the essentials needed to get into most vehicles quickly and effectively. The Quick Max Long Reach tool features a Store-N-Go handle for storage of extra tips. The Air Wedge tool features an internal stiffener to make insertion easier and to minimize possible damage to the vehicle. The 54" Heavy Duty Carrying Case makes it easy to carry the tools around.



**AETOHJS4**

**One Hand Jack Set**

- Designed for all vehicles
- Comes with quick DVD
- Store-N-Go handle
- Scratch proof coating

The One Hand Jack Set is one of our most popular selling products. It is designed to include the essentials needed to get into most vehicles quickly and effectively. The Shielded Quick Max Long Reach tool features a Store-N-Go handle for storage of extra tips. The Air Wedge tool features an internal stiffener to make insertion easier and to minimize possible damage to the vehicle. Kit includes: Shielded Quick Max Long Reach Tool, One Hand Jack Tool, Air Wedge, Super Strap Tool, Quick Video Instructional DVD with Follow-the-pro Videos, Quick one-hand Jack Manual and a heavy duty carrying case.

**AETOHJS4SS**

**Stainless Steel One Hand Jack Set**

- Lifetime Warranty

## BODY MECHANICAL

### Lockout Tools

**Access Tools**  
 "The Undisputed Leader in Specialty Tools"

**AETSOHJ54  
 Super One Hand Jack Set**

- Top selling kit
- Designed for all vehicles
- Comes with Quick DVD
- Store-N-Go handle
- Scratch-proof coating



The Super One Hand Jack Set is one of our most popular selling products. It is designed to include the essentials needed to get into most vehicles quickly and effectively. The Shielded Quick Max Long Reach tool features a Store-N-Go handle for storage of extra tips. The Super Air Wedge tool features an internal stiffener to make insertion easier and to minimize possible damage to the vehicle.



**AETOHJ  
 Standard One Hand Jack Car Opening Tool**

- Makes opening cars safer and easier!
- Rubber pivot will not scratch paint!
- Safer than using a regular plastic wedge that can scratch paint and tear weatherstripping
- High strength plastic for years of reliable use



**AETSOHJ  
 Super One Hand Jack Tool**

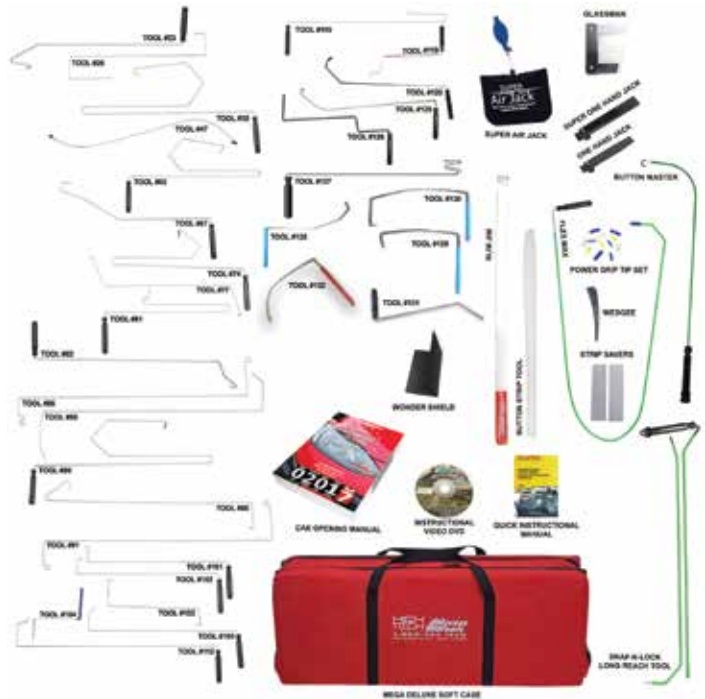
- Makes opening cars safer and easier
- Rubber pivot will not scratch paint
- Safer than using a regular plastic wedge that can scratch paint and tear weatherstripping
- High strength plastic for years of reliable use

**AETSPRO  
 55 Piece Super Pro Complete Car Opening Set**

- Open virtually any vehicle with ease
- High quality in-the-door tools
- Best selling accessories included
- Heavy duty carrying case

Includes:

- 22 chrome tools with sure grip handles, two with Piranha grip
- 9 advanced chrome tools
- 2011-2012 Car Opening Manual for Auto and Heavy Truck
- 2011-2012 Car Opening Manual on CD-rom & DVD
- Locksmith Information Manual, Transponder Manual
- Glassman Tool For Frameless Window Vehicles
- Two-piece Lightning Rod Tool
- Power Night Vision Light
- One Hand Jack Tool
- Wedgee Wedge
- Flexible Long Reach Tool
- StripSavers
- StripTool
- Copper Loop Tool
- Remote Control Button Master
- Super One Hand Jack Tool
- Super Air Wedge
- Power Grip Tip Set
- Wonder Shield
- Slim Jim



vehicle | SPECIALTY

## BODY MECHANICAL

### Lockout Tools

**AccessTools™**

"The Undisputed Leader in Specialty Tools"

#### AETFACOS

##### Fast Access Car Opening Set

- Fast access to any vehicle
- Best selling air jack included
- Best selling one hand jack tool
- Instructional DVD with follow the Pro's tips
- Quick, effective, and safe on any vehicle



The Fast Access Car Opening Set was designed to include all of the basic tools and accessories needed to open any vehicle quickly, easily, and without damage. The included Flexible Long Reach Tool works well with any vehicle, and the ballistic nylon Air Jack Air Wedge in conjunction with the One Hand Jack Tool leave no vehicle unable to be opened. The Strip Tool works very well on any vehicle with a stubborn vertical door lock button. There is an Instructional DVD and Manual included with the kit that provides quick, expert training on the proper use of the included tools. The Fast Access Car Opening Set is a must-have kit for anyone working with automobiles.

vehicle | SPECIALTY



#### AETULRK

##### 21 Piece Ultimate Long Reach Kit

- A wide variety of tools and accessories you need to open virtually any vehicle on the road today using the long reach method
- One of the most comprehensive and complete long reach tool sets ever made
- Comes with heavy duty long padded carrying case with internal pockets
- Perfect for beginners and professionals

Includes: Big Max Long Reach, Quick Max Long Reach, Little Max Long Reach, Tiny Max Long Reach, Mega Master, Button Master, Super Air Jack air wedge, Mini Starter Air Jack air wedge, Glassman Wedge, Wonder Shield, Super One Hand Jack, One Hand Jack, Access Smart Light, Slim Jim Pro, Wedgee Wedge, Strip Savers, Replacement Long Reach Tips, Damage Guard, Quick Instructional Manual, Quick Instructional DVD and Heavy Duty Long Carrying Case.

**AccessTools™**

"The Undisputed Leader in Specialty Tools"

#### AETTM

##### Tiny Max Long Reach Tool

- 28" long
- Great leverage in tight spaces
- Perfect for compact vehicle
- Store-N-Go handle
- Scratch free protective coating



**AccessTools™**

"The Undisputed Leader in Specialty Tools"

#### AETQM

##### Quick Max Long Reach Tool

- Best seller
- 52" long
- Pre-bent at a precise location
- Scratch-proof coating
- Store-N-Go handle





# SPECIALTY TOOLS



IN USE  
Air Hammer  
NOT Included

## LTILT855A

Texas Twister - Air Hammer Pulling Kit



## LTILT1233

3 Piece Chrome  
Cap Buster Kit



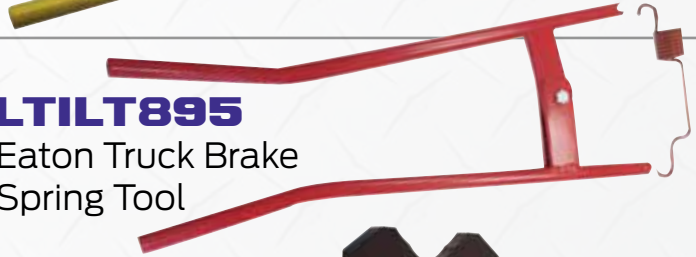
## LTILT855-AH-SK

Texas Twister  
Bidirectional Air Hammer  
Pound or Pull



## LT1890

Truck Brake Spring Tool



## LTILT895

Eaton Truck Brake  
Spring Tool



## LTILT830A

Universal Hub Shocker Puller



## LTILT148

3 Piece E-Z Open Lockout Kit

## BODY MECHANICAL

### Lockout Tools

**AccessTools™**  
 "The Undisputed Leader in Specialty Tools"



#### AETERK

#### Emergency Response Car Opening Kit

- Designed by first responders
- Emergency ready
- Most popular accessories
- Gets into any vehicle

Designed by first responders, the Emergency Response Kit has all the tools that you need to get into any vehicle on the road in an emergency situation. This kit is small enough to fit in almost any vehicle. Kit includes: Mighty Max Two Piece Long Reach, Flexible Long Reach Tool, Remote Control Button Master, Glassman Tool for vehicles with frameless windows, Super Air Jack Air Wedge, One Hand Jack Tool, Wonder Shield and heavy duty carrying case.

#### AETERKLC

#### Emergency Response Kit

- Designed by First Responders
- All of the most popular accessories
- Gets into any vehicle
- Emergency ready



Kit includes Quick Max Long Reach Tool, Flex Max Tool, Button Master, Glassman Tool For Vehicles With Frameless Windows, Super Air Jack Air Wedge, One Hand Jack Tool, Super One Hand Jack Tool, Wonder Shield, and Heavy Duty 54" Carrying Case

**AccessTools™**  
 "The Undisputed Leader in Specialty Tools"



#### AETRCBM

#### Remote Control Vertical Button Master Car Opening Tool

- Flexible coated long reach tool
- Retractable loop with grip cover
- Grab vertical door buttons with ease
- Revolutionary new tool
- Approximately 3 feet in length when straightened

The Remote Control Vertical Button Master is a specialty long reach tool that is specifically designed for pulling up vertical buttons. Just loop around the vertical button and pull it up to open the car. It's that easy.

**AccessTools™**  
 "The Undisputed Leader in Specialty Tools"



#### AETRCBMHD

#### Heavy Duty Button Master

- Thick and flexible coated long reach tool
- Durable and heavy duty retractable loop with grip cover
- Grab vertical door buttons with ease
- Revolutionary new tool
- Approximately 3 feet in length when straightened

The Heavy Duty Button Master is a specialty long reach tool that is specifically designed for pulling up vertical buttons. This Button Master features a thicker internal wire that is less likely to kink and curl than the standard Button Master. It also features a more durable and heavy duty tube that is stronger while remaining flexible.

## BODY MECHANICAL

### Lockout Tools

**AccessTools**  
"The Undisputed Leader in Specialty Tools"

#### AETSAW

##### Super Air Wedge Car Opening Tool

- Perfect for medium sized vehicles to SUV's to trucks



#### AETAW

##### Air Wedge

- Made of ballistic nylon
- Won't damage the vehicle
- Perfect for small to medium size vehicles
- Inflates easily and quickly
- Extremely durable
- Slides easily over weather stripping



#### AETTAW

##### Twin Air Jack Air Wedge

The Twin Air Jack wedge provides a more balanced, even clearance for inserting a long reach tool while avoiding too much stress on a single point of the door. Since the pressure is evenly distributed you can do your work damage free. To further aid insertion, there is a built in stiffener that prevents the wedge from bending when you insert it.



**STECK**

Innovative autobody tools and equipment

#### Classic BigEasy™ Kit



#### STC32900

##### The Big Easy™ Classic Lockout Tool Kit

- High visibility pink powder coating, 55" long
- Improved non-marring wedge, now it's wider, longer and smoother
- Lock knob lifter for cars with flat lock knobs at the top of the door
- Paint protector reduces friction between the car door and the BigEasy

Kit includes: BigEasy Classic, paint protector, lock knob lifter and non-marring wedge.

**STECK**

Innovative autobody tools and equipment



#### STC32903

##### BigEasy Loop Door Unlocking Accessory

- The BigEasy Loop snaps on to any of our BigEasy Lockout Tools to provide easy leverage to pull door handles and window cranks during the door unlocking process
- Handy accessory tool easily snaps on the end of the BigEasy Tool avoiding need to purchase additional and more costly specialty tools
- BigEasy Loop is made from low density polyethylene which provides a strong but flexible tool to adapt to any angle required to complete the unlocking process
- Mold injected with reflective substances which will 'Glo' after absorbing sun light for use with tinted windows and headlights for night time lockouts



#### STC32955

##### BigEasy™ Glo/Easy Wedge Kit

- Glow-in-the-dark yellow allows you to see the tool at night or through tinted windows
- Easy wedge offers controlled opening of the car door for inserting the BigEasy Glo
- Improved non-marring wedge, now it's wider, longer and smoother
- Lock knob lifter for cars with flat lock knobs at the top of the door
- Paint protector reduces friction between the car door and the BigEasy

#### STC32905

##### BigEasy™ Extend Tool

- The BigEasy™ Extend snaps on to any of our BigEasy™ Lockout Tools to provide an extra 12" of length
- BigEasy™ Extend is made from glass filled nylon which provides a strong but flexible tool to adapt to any angle required to complete the unlocking process. Mold injected with reflective substances which will 'Glo' after absorbing sun light for use with tinted windows and headlights for night time lockouts
- Can also be used with BigEasy™ Loop and if additional length is required you can add an additional 12" by snapping on a second BigEasy™ Extend



#### STC32908

##### LittleEasy Door Unlocking Tool

- Same as BigEasy, but smaller
- Works on Japanese imports and some pickup trucks



## BODY MECHANICAL

### Lockout Tools



#### STC32955DLX

##### Big Easy Glow Lock Out Tool and Case

- Glow in the dark yellow allows you to see the tool at night or through tinted windows
- Tool is 55" long to reach just about any door lock
- Easy wedge offers controlled opening of the car door for inserting the Big Easy Glo
- Lock knob lifter lifts traditional & late model knobs at the top of the door
- Paint protector decreases friction between door and BigEasy unit

#### STC32950

##### "Big Easy Glow" Glows in the Dark Lock Out Tool

- Glow in the dark yellow allows you to see the tool at night or through tinted windows
- Improved non-marring wedge, now it's wider, longer and smoother
- Lock knob lifter for cars with flat lock knobs at the top of the door
- Paint protector reduces friction between the car door and the BigEasy

Kit includes: BigEasy Glo, paint protector, lock knob lifter and non-marring wedge.



#### STC32935

##### BigEasy Carrying Case

- Carry your BigEasy kit in style
- Convenient pockets to store all your unlocking tools

#### STC32920

##### Non-Marring Wedge

- For basic opening of car door for insertion of BigEasy



#### STC32930

##### Lock Knob Lifter

- For cars with flat lock knobs at the top of the door



#### STC32923

##### Super Easy Wedge

- Provides more power and has a larger surface area allowing for larger openings and better weight distribution resulting in a smaller chance of damage to a vehicle when trying to unlock it
- The Super Easy Wedge has a contact area of 2-1/2" x 4-1/2" equaling 11.25 square inches multiplied by 15 psi giving the wedge 168.75 pounds of force
- The Super Easy Wedge will also have a taffeta print on the exterior with a 30 gauge polypropylene insert for stiffness which will lead to ease of insertion into the vehicle.
- The Super Easy Wedge, as well as our Easy Wedge, are inserted to create a controlled opening of the vehicle door. Once inserted, inflate the wedge to the desired size and you can insert your BigEasy unlocking tool to safely unlock the vehicle
- The bulb has been increased by 50% allowing for fewer compressions to fill the wedge

#### LT1275

##### Inflate-A-Wedge™ Lockout Aid

- This handy tool allows you to safely separate the door frame from the vehicle body or to separate the door panel and weather-stripping from the window to unlock the vehicle



#### STC32922

##### Easy Wedge

- Inflatable controlled opening of car door for insertion of BigEasy



#### STC32933

##### BigEasy Night Light

- Angled cup design combined with six angled LED's inside the cup generating 1,000,000 candlepower
- Suction cup base
- Powered by three AAA batteries
- Ability to focus a 1' diameter beam up to 4' away on the interior door lock area



## BODY MECHANICAL

### Lockout Tools



#### LTI1000

##### Supreme Master Automotive Lock Out Kit

- Contains 18 pieces and is the ultimate product available today to handle emergency lock outs
- This kit is packaged in a custom heavy duty blow molded carrying with vinyl inserts
- Includes a fully illustrated instruction manual
- Now includes the LT-275 Inflate-A-Wedge™



#### LTI450

##### Deluxe Master Automotive Lock Out Kit

- Includes the Lock Tech tool
- Eliminates automotive lock out problems in emergency situations
- This 11 piece tool kit unlock most domestic and foreign cars and trucks on the road today
- Kit includes a fully illustrated instruction manual and comes in a heavy duty vinyl carrying case

Kit includes model numbers: 40, 80A, 95, 100, 101, 105, 106, 108, 114, 2-271.from the vehicle window

#### LTI271

##### Plastic Door Wedge

- Safely separates the door panel from the vehicle window



#### LTI140

##### 2 Piece Easy Access & Inflate-A-Wedge Kit

- Includes plastic Slip Jim (LTI100)
- 2 Plastic wedges (LTI271) and inflate-a-wedge (LTI275) 53" Length
- Allows you to open the vehicle with the door handle, lock button or electric lock switch

## BODY MECHANICAL

### Lockout Tools



#### LT1620

##### Grand Master Lock Pick Kit

- 35 picks
- Tension wrench
- Gas cap pick tool
- Packaged in a custom leatherette case



#### MTN4507

##### 7 Piece Lockout Kit

- (1) Slim Jim
- (2) Wooden door wedges
- (1) Slide Jim
- (1) Plastic Slip Jim
- (1) Lock tech tool and instructional manual

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#### SGT15500

##### Door Unlocking Tool

- For vehicles having lock mechanisms accessible via the opening between the top of the door and the window glass
- Full instructions provided for wide range of vehicle models
- Overall length 24"

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### Radio Tools



**ASSENMACHER  
SPECIALTY TOOLS**  
ASTTOOL.COM



#### ANR3344A

##### Radio Removal Tool

- Used for removal and replacement of radio
- Applicable to Audi



#### ANRM2070

##### Radio Removal Tool

- Used for radio removal
- Applicable to Mercedes

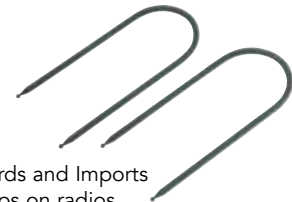


#### LIS29650

##### Antenna Nut Socket Set

- Four double-ended sockets to fit eight common domestic and foreign antenna nuts
- The smaller three sockets are 7/8" hex and the larger socket is 1-1/4" hex
- Made of heat-treated alloy steel for strength
- Fourth socket fits some Nissan and Toyota applications
- Complete applications are listed on the card

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#### LIS11770

##### Radio Remover for Ford

- Disengages retaining clips on Fords and Imports
- Tool quickly releases retaining clips on radios
- Also works on some Saub, VW, Audi and other import applications
- Allows easy removal without damage
- Set of two tools also serves as handles for removing the radio from the panel

Tools lock securely into clips on side of radio. Also works on some DIN mountings found on import vehicles.

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## BODY MECHANICAL

### Radio Tools

#### **GW GEARWRENCH**



**KDT41680  
Radio Removal Kit & Antenna Wrench Kit**

- Set includes: radio removal tool, key set, antenna nut socket set
- Includes the tools needed to remove the radio from the dash on many domestic and import vehicles without damage to the radio or the dash panel
- Antenna nut sockets fit over antennas and down into deep well locations

#### **OTC**



**OTC4715  
18 Piece Deluxe European Radio Tool Set**

- Deluxe 18 piece tool kit to safely remove radios on many American made and European vehicles
- Kit comes in a locking, durable nylon holding pouch
- Covers Audi, BMW, Blaupunkt, Becker, Ford, Grundig, Mercedes-Benz, Opel, Porsche, Skoda and VW
- Tools allow for quick and easy removal of the radio from the instrument panel

Quickly and easily removes the radio from the instrument panel on many USA and most European made vehicles without damaging either the radio or the instrument panel. Replacement Parts: 4715-1 Removal Keys (4 pieces) Audi, Becker, Mercedes-Benz, VW; 4715-2 Removal Keys (2 pieces) Becker, Mercedes-Benz, Porsche; 4715-3 Removal Keys (2 pieces) VW; 4715-4 Removal Keys (2 pieces) Skoda; 4715-5 Removal Keys (2 pieces) Becker; 4715-6 Pentagon Wrench BMW; 4715-7 Bent U-hook (2 pieces) Blaupunkt; 4715-8 U-hook (2 pieces) Audi, Blaupunkt, Ford, Grundig, VW; 4715-9 Allen Hex Wrench BMW, Opel.

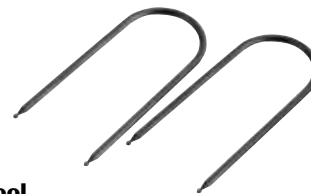
#### **OTC**



**OTC4712  
European Radio Removal Tool Kit**

- Easily removes the radio without damaging the radio or the dash panel

Includes the popular tools needed to remove the radio from the dash on the following European vehicles: BMW, VW, Audi and Mercedes Benz.



**OTC47575  
Ford Radio Removal Tool**

- For use on 1987- current Mustang, 1988- current Taurus/Sable, Ranger/Bronco II, Probe, Lincoln Town Car, Mark VII, Crown Victoria/Grand Marquis, Thunderbird/Cougar, F-series pickups, and E-series vans; 1991- current Explorer, 1995- current Windstar

These dual purpose tools release the retaining clips of a radio faceplate so you can pull the radio from the instrument panel.

#### **STECK**

*Innovative autobody tools and equipment*



**STC21600  
Antenna Wrench**

- Fits most antenna bezel nuts- domestic and foreign
- Compared to a socket set, it's easier to carry and use
- Rugged steel construction for many years of use

## BODY MECHANICAL

### Trim & Molding Tools



**ASSENMACHER  
SPECIALTY TOOLS®**  
ASTOOL.COM



#### ANRMW34

##### Soft Orange Wedge Panel Removal Set

- Three wedge-style panel removal tools
- Great for electronic installation work, removing panels, trim, moldings, and bezels without damage
- Constructed of soft orange polyethylene
- Unique soft make up along with the three designs, gives you all of the trim tools you will need in one set



#### CTA5160

##### Extra Large Plastic Pry Bar

- 400 mm/ 15-3/4" long Nylon plastic body
- Extra long trim tool and pry bar
- Won't damage or scratch surfaces
- For use on instrument panels, door thresholds, interior trim, trunk panels, etc.



#### LIS81200

##### 3 Piece Plastic Chisel Scraper Set

- Set of 3 plastic chisels for removing emblems and adhesive backed trim without damage
- The one-piece, high-impact plastic chisels can also be used to remove stick-on weights from aluminum wheels as well as gaskets from aluminum, without marring
- The plastic blades can be resharpened as needed
- The set includes 3/4", 1" and 1-1/2" blade widths
- Hand guard and hang hole are built into each flexible scraper

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#### DENDF-623TPS

##### 27 Piece Trim Panel Scraper Set

- Helps remove air conditioning vents, door trim clips, dashboard pieces, plastic track guards around carpet openings or any delicate pieces that need to be removed
- Instead of breaking these delicate parts, they now can be saved and reused instead of ordering new parts
- The handles have holes for wall hanging and a stubby end for added ease of grip
- A Velcro enclosed canvas pouch presents the tools in an organized fashion to aid in easy tool location and identification



#### DENDF-621TPS

##### 12 Piece Trim Panel Popper Case Set

- Helps remove air conditioning vents, door trim clips, dashboard pieces, plastic track guards around carpet openings or any delicate pieces that need to be removed
- Instead of breaking these delicate parts, they now can be saved and reused instead of ordering new parts
- The eleven hard plastic pieces are double-sided to provide a wider range of options to get the job done. The mini dead blow hammer is a great tool for delicate jobs. A heavy duty body panel clip remover with grip handle provides more leverage on tough-to-remove clips and completes the set
- A blow-molded case is included to keep the tools organized



#### DENDF-620TPS

##### 12 Piece Trim Panel Scraper Pouch Set

- Versatile set of plastic tools for removing trim pieces in tight spaces
- Easily and safely remove trim pieces instead of breaking them and having to replace them
- Most tool in this set are double sided increasing the overall utility of the set
- A heavy duty clip remover is made of metal for jobs where leverage can be used
- Includes a velcro canvas bag for storage and organization

## BODY MECHANICAL

### Trim & Molding Tools

#### **GW** GEARWRENCH



**KDT2822**

##### Trim Pad Removing Tool

- Tool reaches behind trim panel on GM and other cars
- Grips plastic fastener and removes trim without damage



**KDT3705**

##### Clip Panel Plier

- Two step tip for better support under the clip
- Removes panel clips without damaging them
- Cushion grip handle provides additional comfort



**KDT3888**

##### 80° Push Pin Plier

- Quickly removes plastic anchors that have center pins without damage to pins or anchor. 80° offset is used to gain access to tight wheel well areas
- 80° offset - excellent for tight wheel well access
- Spring loaded - ease of use
- Double cushion grip handle for comfort

Specially designed for removal of push pins with center locking pin. Tool lifts the center pin and pulls anchor in one simple step. Anchors common on Honda, Toyota, GM, Ford, Chrysler and many other late model vehicles. New Push Pin Plier fits into pin slots and under the center pin.



**KDT41840**

##### 2 Piece Push Pin Plier Kit

- Features 30° and 80° Push Pin Pliers in one convenient set
- 80° offset version - excellent for access around wheel wells
- Spring loaded for ease of use • Double cushion grip handles
- Original 30° offset quickly removes plastic anchors that have center pins without damage to pins or anchor

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#### **K** TOOL INTERNATIONAL



**KTI70031**

##### 5 Piece Upholstery Clip Remover Set

- Includes both "U" and "V" clip styles of tools
- Includes a reverse U-blade door panel clip removal tool
- Perfect for anyone working on car upholstery or for removing panels from dash or door
- Ships in a thermoformed, plastic tray for convenient storage

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Part Number	Description
<b>KTI70032</b>	V-Blade Door Panel Tool
<b>KTI70034</b>	U-Blade Mini Trim Panel Tool
<b>KTI70035</b>	V-Blade Mini Trim Panel Tool
<b>KTI70006</b>	Upholstery Tucking Tool



**KTI50201**

##### Universal Body Clip Pliers

- Specially designed, patented pliers will remove almost any clip found on trim, bumpers, etc.
- Steel levers are enclosed in PMS plastic to prevent scratches
- Specially sized and angled tip
- Lifetime warranty

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

#### **LANG** TOOLS Professional Tools For 4 Generations



**KAS413**

##### Ford Seat Belt Pre-tensioner Release Tool

- Works on Ford Taurus, Lincoln MKS and Police Interceptor
- Allows easy disconnect of front seatbelts
- No need to unbolt seatbelt components for seat removal
- Plastisol dipped handles for easy grip
- 1 year warranty

Design for the easy disconnection of Ford front seatbelt pre-tensioners eliminating the need to unbolt seatbelt components to remove seat.

## BODY MECHANICAL

### Trim & Molding Tools



#### LIS18600

##### Door Handle and Window Clip Remover/Installer

- Removes and installs door handle and window crank clips
- Works on GM, Ford and others using the common "C" type clip. Really fast and easy
- Helps prevent damage to door panel upholstery; opposite end firmly holds clip for easy installation

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#### LIS35240

##### Belt Molding Tool

- Unique flared head design and beveled edges allow the tool to be inserted under the molding at an angle
- For clipless moldings, the tool is twisted or pulled back to release the molding from the door tab
- For moldings with metal clips, hook the tool under each clip and pull up
- Quickly removes belt molding without damage. Works on most domestic and import vehicles

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#### LIS35260

##### Remover Plastic Fastener

- This tool quickly removes various types of plastic fasteners that hold on weather stripping, radiator shrouds, fender linings, air dams and other plastic or rubber parts
- The tool is equipped with a sliding urethane button for use when extra leverage is necessary

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**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



#### LIS59250

##### Molding Remover Set

- Quickly removes body moldings
- Two steel spring blades, 2" and 3-1/2", are included for all sizes of body moldings
- Attach the pneumatic driver for use with an air hammer set at 40 psi or less
- The replaceable blades flex to follow the body contour

#### LIS69660

##### Wide Wedge

- Strong and impact resistant when used to pry against trim or metal body panels
- Made of glass reinforced nylon
- Neon orange for visibility

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**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#### LIS68300

##### 11 Piece Trim Removal Set

- Designed to remove Door Panels, Fascia and Trim Stripes, Dashboards, Interior Panels and Trim, Window Moldings, etc.
- Deep V-notch design for better engagement of small fasteners
- Tools have multiple tip angles and sizes
- Made from impact resistant plastic for leverage, but will not damage vehicle surfaces

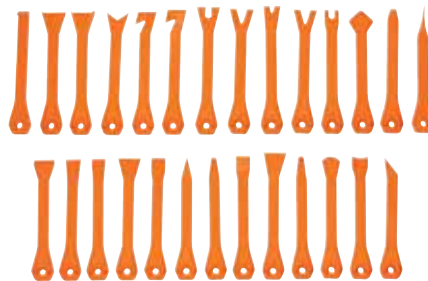
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#### LIS69620

##### 5 Piece Wedge Assortment Set

- Strong and impact resistant when used to pry against trim or metal body panels
- Used for all types of trim removal including side molding, window trim, door handle trim, grill trim and bumper moldings
- Made of glass reinforced nylon. Neon orange for visibility



#### LIS68740

##### 27 Piece Trim Removal Master Set

- Helpful when removing any type of interior trim including door panels and dash pieces
- Used when replacing glass, installing stereo equipment, body work, and panel replacement
- Strong impact resistant design made of glass reinforced nylon
- Designed to be flexible and are less likely to dent or damage surfaces. neon orange for visibility

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#### LIS35350

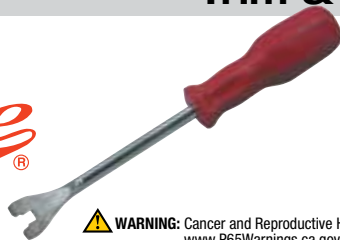
##### Door Panel Remover

- Removes door panel fasteners, even in tight spaces
- The best handle design allows use where space is limited, and provides extra prying force
- This unique, square cutout in the tool tip provides a no-slip grip, even on fasteners with small ears

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## BODY MECHANICAL

### Trim & Molding Tools



**LIS35400**

**Door Upholstery Remover**

- Place the tool under the edge of the door panel and insert into fastener as far as possible..then simply pry up
- Rugged tool with a large comfortable handle

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**LIS35440**

**3 Piece Body Trim Tool Set**

- Clip Remover helps remove door handle and window crank clipson GM, Ford and others using common "C" type clip
- Upholstery and Panel removers are designed for plastic fasteners
- The stepped, square cutout in the tool tip provides a no-slip grip,even on fasteners with small ears
- The bent handle design allow use where space is limited, and provides extra prying force



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**LIS42430**

**80 Degree Push Pin Pliers**

- For easy removal of plastic push pin type panel fasteners with center pins
- Plier tips are angled 80° for use in tight spaces such as wheel wells
- Designed to prevent damage to the pin or anchor



**LIS42420**

**30 Degree Push Pin Pliers**

- For easy removal of plastic push pin type panel fasteners with center pins
- Plier tips are angled 30° for use in tight spaces such as wheel wells
- Designed to prevent damage to the pin or anchor



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**MMM8978**

**3M™ Side Molding and Emblem Removal Tool**

- Designed to be used with an air chisel to remove bonded moldings, but can be used by hand to remove emblems and scripts



**MLK277015**

**5 Piece Clip Lifter Set**

- Unique design
- For all kinds of plastic clips
- High quality finish
- 5 different shapes and sizes

**MLK277047**

**Combi Wedge and Universal Hook Set**

- Good for all kinds of door moldings, panel clips etc
- Neon Green High Visible color



**MLK277008**

**Clip Lifter**

- For plastic fasteners and clips
- Ideal for upholstery and door panels
- Chrome polished
- 175 mm long
- Only 15 mm wide



**MLK277004**

**Combi Wedge**

- Universal Tool, perfect for Door Cover Clips
- 1-3/16" Wide, 7-7/8" Long



**OTC4489**

**Trim Fastener and Molding Removal Set**

- Tools are made of plastic to prevent damage to trim, moldings, alloy wheels or vehicle paint
- Can be used on trim fasteners and moldings inside, or outside the vehicle

Set includes: five different sizes and styles of tools that allow easy removal of trim fasteners, moldings and wheel hubs.

## BODY MECHANICAL

### Trim & Molding Tools

**OTC**



**OTC6711  
8 Piece Tool Kit  
for Mercedes-Benz  
Instrument Panels**

- 2 tools designed for the ignition lock on body styles W126
- 2 tools designed for the ignition lock on body styles W124 and W201
- 2 removal hooks designed for the instrument cluster on body styles W107, W116, W123, W124, W126 W140 and W201
- 2 radio removal tools designed for the body styles W129, W140, W202 and W210
- Covers virtually all Mercedes-Benz models since 1992

**OLDFORGE**  
TOOLS



**OLD1001  
Upholstery Clip Remover**

- 8" in length
- Quickly removes the upholstery clip from the car door
- It fits many different sized clips, including the larger ones
- Handle is made of sturdy, fluted plastic and the finish is black oxide

PROFESSIONAL AUTOMOTIVE SPECIAL SERVICE TOOLS  
**SIR TOOLS** (S)  
SPECIALTY TOOLS FOR THE MOST DELICATE BODY WORK



**SIRST9029  
6 Piece Pry-Tool Kit**

- Specifically designed with extra slim profiles for the finer jobs
- Special contours and unique features for effective and safe removal of fine or delicate bezels and fascia
- The Pry Tools won't scratch or mar fascia like metal tools can
- It tackles finer jobs that SIRST9007 is too big for
- Made from impact resistant high quality nylon

**TOOL AID**  
TOOLS FOR THE PROFESSIONAL



**SGT87600  
EE-ZEE Window Regulator  
and Door Handle Clip Remover**

- Instant removal of door handle and window regulator clips
- End damage to upholstery and escutcheon plate
- Standard for all Ford, General Motors and American motors models

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**SGT87650  
Trim Pad Removal Tool**

- Remove the plastic trim pad fasteners used on General Motors cars since the early 1970's
- Does not damage trim pad or fasteners, they can be fully reused
- The tool reaches under the trim panel and pries against hidden surfaces without breakage or scratching paint
- Works equally as well on metal trim pad fasteners used on Ford, Chrysler and other cars

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**SGT87810  
Upholstery Clip Removal Tool**

- It only takes a few seconds to easily and safely remove upholstery and trim clips on doors, dashboards and consoles
- Does not mar panel surface
- Universal design removes both plastic and metal clips of various shapes and sizes
- Eliminates broken fasteners
- 9" overall length

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**SGT87820  
Tack Puller**

- Use to lift and remove upholstery and trim clips, staples, nails and brads
- Comfortable, contoured handle
- Rust resistant, zinc plated shaft
- Rugged construction
- 7-3/4" overall length

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**STECK**  
Innovative autobody tools and equipment



**STC21500  
Universal Molding Release Tool**

- Slide tool left or right under the molding until it hooks a retaining clip
- Then just rock the tool with a twist of the wrist
- Heat-treated, high carbon steel

## BODY MECHANICAL

### Trim & Molding Tools



#### STC20085 EZ Pull™ Pliers

- Allows body shop technicians quick access to grip and pull multiple pull pins (studs) as well as vertical and horizontal flanges
- Tough alloy steel locking pliers with its 3-1/2" x 1" vice jaw provides an evenly distributed pulling force while pulling multiple pull pins and flanges
- EZ Pull Pliers also has two large pulling rings to accommodate up to 2,000 lb. light pulling capabilities with standard pulling hooks
- EZ Pull Pliers' gives body shop technicians quick and easy clamping capabilities saving them set-up time over traditional heavy pull clamps and minimizes re-welding time to replace cut pull pins and/or flanges
- EZ Pull Pliers' unique design with its wide knurled flat jaw won't cut pull pins or flanges

Top 3" ring allows quick and even pulling capabilities for multiple pull pins and horizontal flanges. Bottom 1-1/2" ring provides pulling capability for vertical flanges. Provides the technician quick and easy pulling capabilities for common dent removal and flange repair operations.

#### STC21720 Sure Grip Trim Clip Pliers

- Won't break clips
- Works faster and easier
- Works on trim pads, hood insulation, etc.



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**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



#### VIMDT6200 5 Piece Upholstery Master Tool Set

- Features a new state of the art design includes door panel tools that will handle all styles of clips
- The small trim and tack tools are designed to remove trim, molding, emblems, or any small prying jobs
- Also included is a hinge side door panel removal tool
- High polished stainless steel heat treated blades are rigid and easy to clean
- Lifetime warranty

### Glass, Molding & Removal Tools



#### AST1760 Windshield Knife Air Kit with Suction Cups

- Sealant cutter that cuts around bonded and encapsulated glass
- Efficiently cleans and smooths moldings after glass removal
- Teasing throttle and regulator for easy speed control
- Flexible blade mount can be positioned in 12 different ways

Kit Includes: 1 - WINDK Air Windshield Remover, 5 - Blades: 1 - WINDK-08A 24mm Hook Blade 1 - WINDK-08E 57mm Bent Blade 1 - WINDK-08F 90mm Bent Blade 1 - WINDK-08H 52mm Bent Curved Blade 1 - WINDK-08J 35mm Flat-Nose Straight Blade; 2 - Double suction cups (#9039); 1 - Tie down strap (#7620).

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#### AST1770 Deluxe Air Windshield Knife

- Counter balanced for smooth operation and less fatigue to the body
- Longer lasting heavier and thicker blades
- Built in air regulator
- 12,000 strokes per minute allows you to cut through urethane much faster
- Comes with 4", 6", and 8" blades

No lubricants needed. No clean up time necessary. Has a safety lever. Replacement blades available: 17701 - 4" blade; 17702 - 6" blade; 17703 - 8" blade.

## BODY MECHANICAL

### Glass, Molding & Removal Tools

# Astro



#### ASTWINDKO Air Windshield Remover with 3 Piece Blade Set

- 20,000 oscillations per minute
- Sealant cutter that cuts around bonded and encapsulated glass
- Efficiently cleans and smooths molding after glass removal
- Teasing throttle and regulator provide easy speed control
- Flexible blade mount can be positioned in 12 different ways

Rear exhaust directs air away from work. Also has a safety lever.  
Blades Included with tool: 57mm Bent Blade, 52mm Bent Curved Blade and 35mm Flat-Nose Straight Blade.

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#### AST45027 27 Piece Scraper Set

- Includes 7 different types and sizes of razor and non-marring scrapers for nearly all light to heavy-duty applications
- Remove gasket material and adhesives from engine components
- Perfect for removing thick sealant, paint over-spray and other difficult materials without damaging painted surfaces



#### AST45070 7 Piece Windshield Molding Removal Tool Set

- Includes all of the specialized tools required to safely and quickly remove windshields for a large variety of vehicles
- Trim pad remover and molding release tool prevent damage to windshield surroundings
- Includes a rubber gasket knife, wire feeder tool, cutting wire and two handles for proper hand removal of sealed glass

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# Astro



#### AST45080 8 Piece Door Panel & Trim Removal Tool Set

- Includes 8 different types of pry and trim tools for nearly all clips, trim panels and fasteners
- Clip removal pliers are great to quickly release door upholstery clips, panel clips, and all other trim anchors and clips on your vehicle
- Nylon trim and pry tools for removing any clips or fasteners on painted surfaces without damage

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#### AST9038 Single Suction Cup

- 4-5/8" diameter rubber suction cup
- Lever lock suction cups for secure grip
- For one person auto glass repair
- Can be used for small dent removal
- Capacity: 88 lbs.



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#### AST4531 Deluxe Manual Caulking Gun

- Dispenses caulking, adhesive and sealant from a standard cartridge or bag
- Includes one plastic nozzle for use with bag
- Thrust ratio: 12:1 • Manual use

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## BODY MECHANICAL

### Glass, Molding & Removal Tools

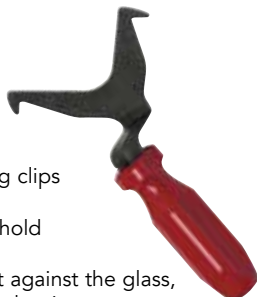


**KDT2038**  
**Window Molding Remover**  
**for Ford GM and AMC**

- Used to remove the window molding clips on GM, Ford and AMC vehicles
- Sure-grip plastic handle for easy an hold

Easy to use just by placing the jaw flat against the glass, locate the clips and roll them out with the tip.

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**LIS47000**  
**Windshield Locking Strip Tool**

- Two double-ended tips to fit most all applications
- Unique design allows tip to swivel 90 degrees in either direction to work where others won't
- Just select the tip with opening that most closely fits locking strip, and then feed locking strip into eyelet
- Tip swivels in 90 degrees

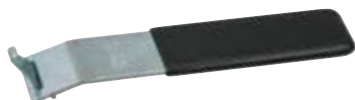
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**LIS65750**  
**Windshield Wiper Arm Removal Tool**

- Makes wiper arm removal and replacement an easy job
- Easily removes wiper arms without damage to car finish

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**LIS63900**  
**Suction Cup Window Holder for Door Windows**

- Holds door glass while working on window regulator
- Works on all cars and trucks with a top door frame



**KTI70540**  
**Windshield Removing Tool**

- Cold knife with cable
- Two tempered steel blades

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**KTI70545**  
**Professional Windshield Knife**

- Extra reach to cut hardened urethane down to the dash line
- Constructed of heavy-duty steel and aluminum
- Padded, ergonomic handle
- 18-inch overall length
- Handle features storage space for additional blades

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**EQLLDT204**  
**Equalizer® Express® StingRay™ Auto Glass Cut-Out Standard Knife Kit**

- BFE1400 blade is 3" x 10"
- Perfect for slicing through wide bands of urethane
- Designed for plunge and angle cuts
- 120 Volt
- Rotating speed control gives a wide range of speeds from 500 to 3,000 strokes per minute

## BODY MECHANICAL

### Glass, Molding & Removal Tools



**LIS35150**

**Window Belt Molding Remover**

- Quickly removes the belt molding without damage to the window or the molding
- Fits most domestic and import vehicles
- The tool quickly removes the belt molding without damage to the window or the molding



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**OTC4576**

**Universal C-Frame Nut Splitter**

- Forged and heat-treated frame with offset handle works where ordinary nut splitters may fail
- Smooth action cracks nuts without damaging bolt threads
- Chisel rotates to line up parallel to bolt
- Splits non-heat-treated nuts of 7/16" (11mm) through 3/4" (19mm) diameter
- Tool is 6-3/4" in length



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**SGT87460**

**Windshield Removal Kit**

- This kit contains the basic tools and wire needed for removing even the most modern windshields
- Supplied in a durable, vinyl pouch

Contains: braided golden windshield cut-out wire; starting tool for windshield cut-out wire; and (2) handles for windshield cut-out wire.

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**SGT87700**

**Jiggler Windshield and Rear Window Reveal Molding Tool**

- For GM vehicles
- Remove clips holding windshield and rear window reveal molding
- Double sided tool can be applied easily and allows for quick disengagement of molding clips
- Rubber insert on tools protects glass from being scratched
- Made from heat treated spring steel



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**SGT87360**

**Lever Single Suction Cup**

- For windshield removal and replacement
- Use to pull out sheet metal panel dents on doors, fenders and hoods
- Suction Cup measures 4-5/8" diameter
- Capacity 80 lbs.



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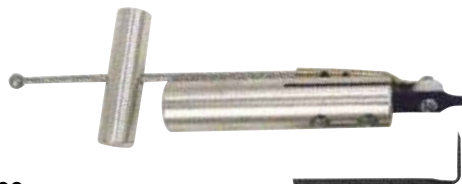
**SGT87425**

**Braided, Golden Stainless Steel Windshield Cut-Out Wire**

- Braided design provides the fastest cutting action possible
- Quickly slices through urethane and silicone windshield adhesives
- Each braided helix of this wire acts like a cutting saw tooth
- Made of stainless steel, 72 feet per hank



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**SGT87900**

**Windshield Removal Tool (Cold Knife)**

- Use to remove windshields, backlights, and bonded backlights
- Cuts the sealant around windows with specially designed tempered steel blade
- Extra blade supplied with each tool
- Pull handle provides additional leverage

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**SGT87902**

**Replacement Blade for Windshield Removing Tool (SGT87900)**

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## EXHAUST

### Manifold

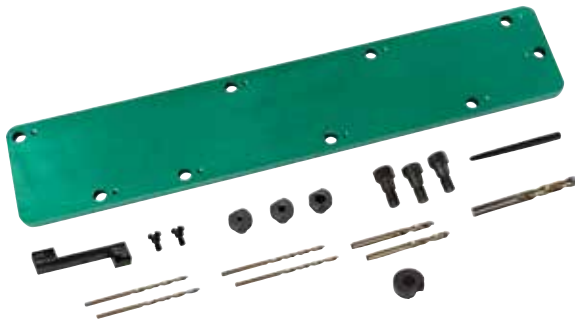


#### LIS71400

##### Manifold Drill Template GM LSIII

- Removes broken exhaust manifold bolts on GM LS III 4.8L, 5.3L and 6.0L motors without damaging the cylinder head
- Tapered bolts center base plate over bolt holes and slip fit bushing allows you to move from hole to hole without moving base plate
- The screw extractor is then used to remove the broken bolt
- Includes bushing to drill to tap size when extractor cannot be used
- Double sided drill depth gauge to make sure water jacket is not pierced

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#### LIS71500

##### Manifold Drill Template Dodge

- Removes broken exhaust manifold bolts on Dodge 5.7L Hemi motors without damaging the cylinder head
- Tapered bolts center base plate over bolt holes and slip fit bushing allows you to move from hole to hole without moving base plate
- The screw extractor is then used to remove the broken bolt.
- Includes bushing to drill to tap size when extractor cannot be used
- Double sided drill depth gauge to make sure water jacket is not pierced

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#### LIS68500

##### Exhaust Manifold Drill Template Set for Ford

- Designed to remove broken exhaust manifold studs on 4.6L, 5.4L 2 valve, 5.4L 3 valve and 6.8L v10 Ford engines without damaging the block
- Interchangeable plates ensure drill is centered on the broken stud
- Depth gauge for drilling is marked on the template
- The stripped screw extractor is then used to remove the broken stud

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**LANG**  
TOOLS  
Professional Tools For 4 Generations

#### KAS5530

##### Intake Manifold Wrench

- 1/4" ball-end Allen bit
- Vinyl grip
- Reversible ratcheting box wrench

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## EXHAUST

### Manifold



#### LIS71600

##### Manifold Template Ford 4.6L/5.4L

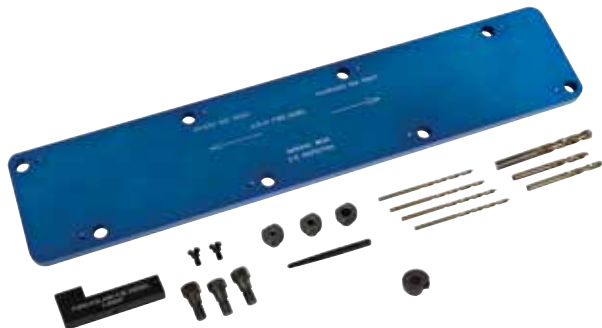
- Removes Broken Exhaust Manifold Bolts on Ford 4.6L, 5.4L and 6.8L Motors Without Damaging the Cylinder Head
- Tapered bolts center base plate over bolt holes and slip fit bushing allows you to move from hole to hole without moving base plate
- The screw extractor is then used to remove the broken bolt
- Includes bushing to drill to tap size when extractor cannot be used



#### LIS71350

##### Manifold Template Ford 6.0L/6.4L

- Tapered bolts center base plate over bolt holes and slip fit bushing allows you to move from hole to hole without moving base plate
- The screw extractor is then used to remove the broken bolt
- Includes bushing to drill to tap size when extractor cannot be used



#### LIS71580

##### Ford 6.0L/6.4L Drill Plate

- Manifold Drill Plate for 6.0L & 6.4L Diesel
- Used for extracting broken exhaust manifold studs.

Tapered bolts center base plate over bolt holes and slip fit bushing allows you to move from hole to hole without moving base plate. The screw extractor is then used to remove the broken bolt. Includes bushing to drill to tap size when extractor cannot be used.



#### TTST1702

##### Universal Broken Exhaust Stud Drill Guide

- Repair broken exhaust studs without removing the head or engine
- Universal design is more affordable when compared to engine specific kits
- Uses two good studs to anchor the third drill guide over the broken stud
- Designed for 8mm and 10mm applications
- All adaptors, drill bits, spacers, etc. are included in the kit

## EXHAUST

### Manifold



**PXTE200ABSE**  
**Elizabeth™ 200 Series**  
**Exhaust Manifold Base Kit for Ford 3.5L EcoBoost**

- For Ford 3.5L EcoBoost
- Ensure perfectly straight drilling & perfect perpendicularity
- Includes all the essentials necessary to finish the repair
- Proven to turn hours in repair time into just minutes



**PXTRII200ABSE**  
**ROCKY™ II 200 Series Exhaust Manifold Base Kit**  
**for Ford Gas & Diesel**

- For Ford Gas 4.2L, 4.6L, 5.4L, 6.8L and Ford Diesel 6.0L & 6.4L
- Ensure perfectly straight drilling & perfect perpendicularity
- Includes all the essentials necessary to finish the repair
- Proven to turn hours in repair time into just minutes



**PXTM200BBSE**  
**Mikey™ 200 Series Exhaust Manifold Base Kit for GM**

- For GM 4.8L, 5.3L, 5.7L, 6.0L and 6.2L
- Ensure perfectly straight drilling & perfect perpendicularity
- Includes all the essentials necessary to finish the repair
- Proven to turn hours in repair time into just minutes



**PXTRIII200APRO**  
**Exhaust Manifold Repair Prokit Ford Gas/Diesel**

- Combines both Ford Gas and Ford/International Diesel into one kit
- Cuts repair time from 1-2 hours per stud to about 10-15 minutes
- Services 4.6L, 5.4L, and 6.8L V10 engines and 6.0L & 6.4L diesel engines; includes two and three valve version engines
- Eliminate risk of drilling into the coolant jackets of the cylinder head
- Remove broken screw extractors without removing the cylinder head
- Interchangeable tooling for extractor-less repair
- For use in Crown Victoria®, Mercury Grand Marquis®, Mountaineer®, Ford Explorer®, SportTrac® F-Series, Super Duty Ford Trucks, Ford Econoline® Vans and Ford drive chassis



## EXHAUST

### Expanders, Spreaders & Cutters



- KDT2031  
Exhaust and Tailpipe Chain Type Cutter**
- Serviceable tool works in hard-to-reach areas
  - Keep well oiled
  - Replacement part KDT2031-82 cutter chain assembly
  - It will not cut double-wall pipes

This tool is used to cut pipes 3/4" to 3" (19 to 76mm) in diameter. It has fifteen (15) blades that effectively cut pipe, so only a 1/4" rotation is needed for a complete cut. The handles are plastisol-dipped for easy grip and comfort.

**KDT2031-82  
Chain Replacement for KDT2031 Cutter**

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**KDT2071  
Exhaust and Tail Pipe Expander 1-1/2" to 2-1/2"**

- Pipe size: 1-1/2" to 2-1/2" (38mm to 63.5mm)
- Flare, shape and expand tailpipes to ensure a tight fit and prevent exhaust leaks
- Replacement parts available

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**LIS32500  
Exhaust Pipe Expander 1-5/8" to 2-7/16"**

- Removes clamp grooves and rounds out pipes
- Practical, rugged tools that make easy work of a tough job
- 1-5/8" to 2-7/16" (41.3mm - 61.9mm)

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**LIS32750  
Exhaust Pipe Expander 2-3/8" to 3-1/4"**

- Removes clamp grooves and rounds out pipes
- Practical, rugged tools that make easy work of a tough job
- Fits most pipes: 2-3/8" to 3 1/4" (60.3mm - 82.5mm)

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



**LIS34400  
1-5/8" to 2-7/16"  
Exhaust / Tailpipe Expander**

- Use with an impact wrench to quickly stretch pipes for connection. Two collet sets fit pipes from 1 5/8" to 2 7/16"
- Can be used while the pipe is on the car
- Clam shell package
- Shipping wt. 4 lb. 6 oz.

Exhaust and Tailpipe Stretcher stretches all pipes including stainless steel. Useful for removing the crimp left by the pipe clamp.

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**LIS31530  
Cutter Wheels for LIS31500 Exhaust Cutting Tool**

- Set of (4) Replacement Cutter Wheels for 31500



**LIS13000  
Exhaust Manifold Spreader for Small Block Chevrolet**

- For reinstalling the manifold on small block Chevrolets
- A simple way to expand a warped manifold so all bolt holes are accurately aligned
- Helps prevent cross-threading of manifold bolts
- Works best when used in pairs or install before removing manifold to prevent misalignment

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



**LIS17350  
Pipe Stretcher Kit**

- Expands all types of exhaust pipe, including stainless steel, from 1-5/8" to 4-1/4" in size.

Also available individually:

- LIS17510** Extender #1 (2-3/8" to 2-3/4")
- LIS17520** Extender #2 (2-3/4" to 3-1/8")
- LIS17540** Extender #4 (3-1/2" to 3-7/8")
- LIS17550** Extender #5 (3-7/8" to 4-1/4") (must be used with 17530)

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## EXHAUST

### Expanders, Spreaders



#### LIS32000

##### 1-1/2" to 3" Pipe Shaper

- Rounds out exhaust pipes that are crushed or bent
- Reshapes pipes bent or flared out by placing big end over pipe
- Range is 1 1/2" - 3 5/8" (38.1 - 92mm)
- Boxed when delivered
- Pipe End Shaper rounds pipes in or out

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#### LIS34400

##### 1-5/8" to 2-7/16" Exhaust / Tailpipe Expander

- Use with an impact wrench to quickly stretch pipes for connection. Two collet sets fit pipes from 1 5/8" to 2 7/16"
- Can be used while the pipe is on the car
- A convenient alternative to hydraulic pipe expanders
- Clam shell package

Stretches all pipes including stainless steel. Useful for removing the crimp left by the pipe clamp.

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#### AST78835

##### Exhaust Pipe Stretcher Kit

- Impact driven Heavy-Duty expander allows for fitting smaller exhaust piping and making exhaust seals
- The 28mm drives the tool and collet sets expand pipes from 1-5/8" to 4-1/4"
- Steel expander 1-5/8" - 2" Collet
- Steel expander 2" - 2-1/2" Collet

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### Oxygen Sensor Tools



SCHLEY PRODUCTS INC.



#### SCH67750

##### Oxygen Sensor Wrench with Handle

- This wrench has been designed for use with most all oxygen sensors no matter what size electrical connectors they have
- The 12 point side enables the technician twice the number of "clock angle" attachment positions versus all oxygen sensor wrenches available on the market
- The new handle design allows the technician greater space and positive leverage on confined areas

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#### PXTN200APRO

##### EGR Valve Tube Repair Kit for Ford 6.7L Power Stroke Diesel

- Facilitates EGR repair in Ford 6.7L Diesel
- Heavy duty stainless steel inserts for a permanent no-hassle repair
- Precision-machined 6061 hard-coated aluminum with Speed-Fast™ bushings
- Special machine tooling that cuts through titanium for easy on-the-truck repair • Immediate ROI



#### CAL843

##### Oxygen Sensor Wrench

- Long reach handle for access
- Flex Head to get at tough angles
- Works on Ford Contour, 4.6L, and 5.4L Ford Modular Engines
- 7/8" and 22mm knock sensors used on mid sized trucks, SUV's and vans
- Designed for all oxygen sensors with 7/8" hex
- Designed to work on multiple applications
- High Polish Chrome finish



## EXHAUST

### Oxygen Sensor Tools



SCHLEY PRODUCTS INC.

#### SCH15500 NOX & SOOT Sensor Socket Wrench Set

- Kit fits 24mm & 30mm NOX & 24mm SOOT Sensors
- Crow Foot design provided access to sensor W/O cutting wires and limited access applications
- 1/2" Hex allows 1/2" breaker bars to be used for high break away torques required to remove sensors
- 6 and 12 Pt SP Grip Drive contacts the sensor hex body
- Chrysler, Dodge, Jeep Diesels and other manufactures using NOX and SOOT sensors



The sensors are installed in the exhaust system similar O2 sensors used in gas engine vehicles and are subject to heat, rust & corrosion requiring special wrenches to remove these sensor. Sensors are normally mounded between the top of the exhaust pipe and the floor pan heat shields.

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#### SCH93750B Super Duty 6 & 12 Point O2 Wrench with SP Grip Drive With 2-1/8" Offset

- SP Grip Drive is designed to contact the O2 sensor hex in the body of the sensor not the hex tips
- Conventional sockets/wrenches can easily round off the hex tips
- SP Grip Drive provides greater torque capabilities needed to remove rusted or frozen O2 sensors found on many of today's vehicles
- Two sided 22mm wrench featuring 6 & 12 point configurations with O2 sensor wire notch



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#### AST7801 7 Piece Sensor and Sending Unit Socket Set

- Made of Cr-V for durability
- Comes in a blow molded case

Set includes:  
 1" and 1-1/16" Oil Pressure Sending Unit Socket  
 1-3/16" Oil Pressure Sending Unit Socket  
 1-1/16" GM Thermal Sensor Switch Socket  
 7/8" Heated Oxygen Sensor Socket  
 7/8" Low Profile Offset Oxygen Sensor Socket  
 7/8" Oxygen Sensor Socket  
 7/8" Universal Vacuum PVS, TVS Valve  
 and Oxygen Sensor Socket



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#### HEL4833 Oxygen Sensor Thread Repair Kit

- (1) pilot reamer tap
- (1) install tool
- (6) M18 x 1.5 inserts
- Molded case



#### LIS12100 7/8" x 3/8" Drive Oxygen Sensor Socket

- Special 7/8" socket with cutaway slot to provide clearance for wire harness
- Provides adequate depth to fit over sensor
- Heat-treated alloy steel
- Use with 3/8" square drive or 1" wrench Removes and Installs Oxygen Sensors on most Domestic and Some Imports.



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#### LIS12390 Dual Drive Oxygen Sensor Wrench

- Can be driven with a 1/2" breaker bar from the end, create your own handle
- Also has standard 3/8" drive on top of tool for use with a ratchet
- Neck design fits many oxygen sensors with heat shields
- Forged and heat-treated for superior strength
- Six point design helps prevent slipping like 12 point tools



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#### LIS12290 NOx & Soot Sensor Socket Set

- Designed for easy access on NOx and soot sensors
- Includes 24mm & 30mm offset sockets with 1/2" drive
- Each socket has 6 and 12 point options
- Works on 2014-current Ram 3.0L EcoDiesel V6 engines found in Jeep Grand Cherokee and Dodge Ram 1500 Trucks

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## EXHAUST

### Oxygen Sensor Tools



**LIS34350**  
**Water Sensor Wrench**  
**for 6.6L GM Duramax**

- 12-sided wrench • Won't damage plastic sensors
- Removes the water sensor on 2001 and newer
- 6.6L GM Duramax Diesel Engines
- Installs the water sensor on 2001 and newer 6.6L GM Duramax Diesel Engines

**LIS12230**  
**Oxygen Sensor Thread Chaser**

- Use with 3/4" hex socket or 3/8" square drive
- Size M18X1.5
- Also works on M18X1.5 spark plug threads



**OTC4673**  
**7 Piece Sensor Socket Set**

Set includes:

- OTC4673-1 - 29 mm Vacuum Switch and O2 Socket, 1/2" Dr.
- OTC4673-2 - 7/8" Vacuum Switch and O2 Socket (wide slot), 3/8" Dr.
- OTC4673-3 - 27 mm Thermal Sensor Switch, 1/2" Dr.
- OTC4673-4 - 7/8" Vacuum Switch and O2 Socket (narrow slot), 3/8" Dr.
- OTC4673-5 - 1-1/16" & 1" Oil Pressure Sending Unit Socket, 3/8" Dr.
- OTC4673-6 - 7/8" O2 Sensor Socket, offset 1/2" Dr.
- OTC4673-7 - 7/8" O2 Sensor Socket (low profile), offset 3/8" Dr.

**OTC7807**  
**Heated Oxygen Sensor Wrench**

- The extended and reinforced design removes the toughest sensors without rounding them off
  - 1/2" double square drive • 7/8" hex • Weight: 8 oz.
- We designed a slot in the side of this wrench to accommodate connectors on heated oxygen sensors that are too large to fit through standard O2 sensor wrenches.



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**OTC6500**  
**FlexiHead O2 Sensor Wrench**

- Flexible head design assists in the removal of stubborn O2 sensors that are 7/8" in diameter, a common size to most vehicles
- Features allow extensions or wrenches to apply force in tight areas, even on seized components
- Durable design and construction
- Tool holds up to use for common O2 sensor removal
- Patented design accepts extension and torquing tools



**SUNEX2850**  
**7 Piece 1/2" Drive Oxygen Sensor Set**

- Easily removes vacuum switches, oil pressure sending units, brake light switches, and oxygen sensors on most car models
- CR-MO alloy steel for long life
- Fully guaranteed
- Heavy duty blow molded storage case

Set includes sizes: 29mm pressure/vacuum switch socket, 7/8" vacuum switch socket with 7.5mm gap, 27mm oil pressure sending unit socket, 7/8" vacuum switch socket with 30.6mm gap, 1-1/16" and 1" oil pressure sending unit socket, 7/8" short oxygen sensor socket and 7/8" hex 1/2" double square driver.

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**CTA2220**  
**3 Piece Injection Wrench Set**

- Diesel injector fuel line socket wrenches are designed for removing injector lines on most diesel engines
- 12 point Bi-hex sockets for maximum grip includes a 14mm, 17mm and 19mm sizes
- Works great on most Mercedes-Benz & Sprinters
- Comes in a blow molded case for easy storage and transportation
- Manufactured from chrome vanadium steel for strength and durability

## EXHAUST / INSPECTION

### Hanger Pliers



**LIS38350**

**Removal Pliers Rubber Support Bracket for Exhaust**

- Separates exhaust hanger brackets from rubber supports
- Works on all import and domestic cars and truck exhaust systems that use the rubber hanger supports.

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



**KAS436A**

**Exhaust Hanger Removal Pliers**

- Specially designed tool for the removal of rubber exhaust system hangers, i.e. tailpipe, exhaust pipe, and muffler
- Features self-locating forcing pin, and "cushioned," slip-resistant handles at a 25 degree offset for easy access in restricted areas



**CTA8062**

**Exhaust Hanger Tool**

- Slim profile with a self locating pin and 25° offset allow for easy access in confined areas
- OAL: 14.5" long

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### Pressure Gauges



**OTC7215**

**Exhaust Back Pressure Gauge**

- Includes a universal adapter for vehicles with thermacor systems
- Works on domestic and imported vehicles
- Exhaust back pressure gauge with universal adapter

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



**STATU-29PB**

**Basic Exhaust Back Pressure Set**

- The special 2-1/4" gauge has two multi-colored bands - idle and 2500 RPM, with pressures shown in PSI and bar
- Includes a 6' hose, which is enough length for the technician to test from the drivers seat
- All included in a plastic blow molded case

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

**STATU24APB**

**Three Way Exhaust Back Pressure Kit**

- Allows quicker and more accurate testing of exhaust blockages in catalytic converters, mufflers, etc.
- The 2-1/4" special gauge has two multicolored bands for measuring at Idle and 2500 RPM; the scale ranges are in PSI and BAR
- Rubber boot to protect gauge • 6' hose



**SGT33600**

**Exhaust Back Pressure Tester**

- Test for clogged or obstructed catalytic converters and mufflers • 41" long hose
  - Threads into Oxygen Sensor Port
  - Gauge measures 2-1/2" diameter and has dual scale: 15 PSI and 1.00 Kg/Cm2
- Kit includes 12mm and 18mm adapters to fit most domestic and imported vehicles. No need to tap into exhaust system then reseal holes afterwards. Packed in a vinyl pouch for store display and tool box storage. Complete with instructions.

## INSPECTION

### Mirrors



#### KT170920

##### Telescopic Inspection Mirror, Rectangular

- Tool goes where human eyes cannot
- Highly polished and protected mirror is attached to an expandable telescopic, ergonomic handle for user convenience
- Rectangular mirror measures 1-1/4" x 2-1/4"
- Extends from 6-1/2" to 32"

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#### KT170921

##### Telescopic Inspection Mirror, Square

- Tool goes where human eye cannot
- Highly polished and protected mirror is attached to an expandable telescopic, ergonomic handle for user convenience
- Square mirror measures 1-1/4" x 1-1/4"
- Extends 6-1/2" to 32"

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#### KT170922

##### Telescopic Inspection Mirror, 3-3/4" Round

- Tool goes where human eyes cannot
- Highly polished and protected mirror is attached to an expandable telescopic, ergonomic handle for user convenience
- Length: 20" to 31"

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#### OTC4650

##### Mirror and Magnet Set

- Handles telescope from 6-1/2" to 25"
- Swivel heads allow access to tight areas
- Large, rectangular swivel mirror is 2" x 3-1/2", and is attached to one telescoping handle, small mirror is 1-1/4" in diameter, and is interchangeable with magnets on the other handle
- Magnets can lift up to 8 lbs.



#### KDT2840

##### 1-1/4" Round Telescoping Magnifying Inspection Mirror

- Perfect for inspecting hidden areas, mirror swivels to almost any position
- Overall length: 17"

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#### LIS32050

##### 10" to 14" Telescoping Inspection Mirror

- Enables you to see around corners
- 2-1/4" diameter mirror swivels to any position
- Length extends from 10" to 14"
- Has an insulated vinyl grip



#### TIT11193

##### 2" Telescoping Inspection Mirror

- Inspection Mirror
- 2" Diameter
- Telescoping from 9.5" - 28.5"
- 5-section stainless steel shaft
- Comfortable textured cushion grip



#### TIT11666

##### Rectangular Inspection Mirror

- Rectangular mirror size: 2" x 3-1/2"
- Telescopes from 7-1/2" to 21"
- Use to inspect hard to reach places
- Brass material telescoping tube

## INSPECTION

### Mirrors



#### ULLE-DM-1 Telescopic Digital Mirror

- Small profile to fit in tight areas
- Take and record video and pictures in HD
- Wifi enabled to work with any smartphone
- Built in illumination
- Telescopes to over 3 feet in length



#### ULLHTK-2LT Rectangular Inspection Mirror with Three Rotating LED Lights

- 3-1/2" x 2-1/4" Lighted Inspection Mirror with three LED lights that can be adjusted for inspection in tight dark areas
- All angle ball joint holds the lighted mirror head firmly
- Telescopes from 6-3/4" to 30-1/4"
- Stainless steel handle is long, strong and lightweight
- Heavy-duty grip will not slip in wet or oily hands



#### ULLHTC-2 2-1/4" Diameter Telescoping Inspection Mirror

- Telescopes from 6-1/2" to 36-3/8"
- Clear glass mirror for perfect reflection
- All-angle ball joint holds mirror firmly for 360 degree viewing
- Mirror encased in rugged corrosion resistant brushed stainless steel
- Stainless steel telescoping handle is strong, long and lightweight



#### ULLHTC-2LM Extra Long 2-1/4" Diameter Magnifying Inspection Mirror

- Stainless steel handle telescopes from 12" to 4'3"
- Extra long handle perfect for inspection in hard to reach areas
- 2-1/4" magnifying mirror enlarges the viewing surface
- All angle ball joint holds head firmly at any angle
- Textured cushion grip will not slip in wet or oily hands



#### ULLB-2T Pocket Telescopic Inspection Mirror

- 1" x 2" oval
- All-angle ball joint holds mirror head firmly at any angle for perfect viewing
- Telescopes from 4-1/2" to 19" for fast accurate inspection
- Handy pocket clip



#### ULLHTC2LT LED Lighted Telescoping Inspection Mirror

- 2-3/8" mirror diameter
- Telescoping from 6-1/2" to 36-3/8"
- LED light illuminates dark areas for perfect inspection
- All-angle ball joint holds lighted mirror head firmly at any angle for perfect viewing
- Stainless steel handle is long, strong, and lightweight for fast accurate inspection
- Comes with two round lithium batteries
- Heavy duty handle will not slip in wet, oily hands



#### ULLHTC-2FL 2-1/4" Diameter Flexible Inspection Mirror

- The HTC-2FL is 32" long and the aluminum shaft can be bent at any angle to get into hard to reach areas
- The all angle ball joint holds the 2-1/4" diameter mirror head tightly for perfect viewing
- The textured cushion pistol grip will not slip in wet or oily hands

#### ULLC2HD 2-1/4" Replacement Mirror/Head Assembly

- Fits models: ULLC-2, ULLC-2L and ULLHTC-2



#### ULLHTE-2 1-1/4" Diameter Telescoping Inspection Mirror

- Clear glass mirror for perfect reflection
- All angle ball joint holds the mirror firmly for 360° viewing
- Mirror is encased in rugged corrosion resistant brushed stainless steel
- Stainless steel telescoping handle is strong, long and lightweight
- Telescopes from 6-1/2" to 35"

#### ULLHTE-2T 1-1/4" Pocket Telescopic Inspection Mirror with Cushion Grip

- 1-1/4" diameter
- All angle ball joint holds mirror head firmly at any angle for perfect viewing
- Telescopes from 5-5/16" to 27-1/2" for fast accurate inspection
- Handy pocket clip
- Textured cushion grip will not slip in wet or oily hands



## INSPECTION

### Mirrors

#### ULLMAN



##### ULLHTS-2 3-1/4" Diameter Telescoping Inspection Mirror

- Telescopes from 6-1/2" to 29-1/2"
- Clear glass mirror for perfect reflection
- All angle ball joint holds the mirror firmly for 360° viewing
- Mirror is encased in rugged corrosion resistant brushed stainless steel
- Stainless steel telescoping handle
- Comfortable textured cushion grip keeps handle secure in wet or oily hands



##### ULLHTS-2LT 3-3/8" Diameter LED Lighted Inspection Mirror

- 3-3/8" LED case has three bright LED lights that illuminates dark areas for perfect inspection
- All-angle ball joint holds lighted mirror head firmly at any angle for perfect viewing
- Stainless steel handle telescopes from 6-3/4" to 30-1/4"
- Cushion grip will not slip in wet or oily hands
- Comes with two CR2016 batteries

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##### ULLHTK-2 Rectangular Inspection Mirror

- Mirror head has a quick-change tab to replace a broken mirror
- Square antenna helps prevent mirror from rotating out of position
- Large viewing mirror 2-9/16" x 3-3/4"
- Adjusts from 6-3/4" to 29-3/4"
- Heavy-duty cushioned grip will not slip in wet or oily hands



##### ULLGMC-2 MegaMag® Magnetic Pick-Up Tool/Inspection Mirror

- MegaMag® magnetic pick-up tool lifts 16 lbs. and sides of magnet head will not attach to unwanted metal surfaces
- 2-3/8" diameter mirror with metal base mounts to MegaMag® in seconds to bring hidden areas into full view
- Stainless steel handle is strong and lightweight
- Telescopes from 10" to 30-1/4"
- Vinyl Pouch stores MegaMag® and inspection mirror

### Pick-Up Tools



##### IPA8100 14" Large MANTUS™ Tight Access Tool

- Surpasses the reach of industry's longest needle nose pliers
- Precise interlocking jaws for a strong grip
- Durable, surgical stainless steel construction



**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

#### GW GEARWRENCH



##### KDT2391 23" Flexible Retrieving Tool

- Makes picking up hard to reach ferrous material easy



##### KT170900 21" Flexible Magnetic Retrieving Tool with 7 lb. Pull

- Goes where human hands cannot
- Extendable magnet easily picks up and retrieves dropped items
- Features an ergonomic grip, a bendable shapeable wire flex shaft, powder coated steel casings to reduce side pull, and a powerful, lightweight magnet

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



##### KT170901 Swivel Head Telescopic Magnetic Retriever, 14 lb. Pull

- Retriever goes where human heads cannot
- Extendable magnet easily picks up and retrieves dropped items
- Features an ergonomic grip, a 180° swivel head, a telescopic shaft, powder-coated steel casings to reduce side pull, and a powerful, lightweight magnet to reach tight places
- Extendable length: 6-1/2" to 32"

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



##### KT170903 Telescopic Magnetic Retriever with 14 lb. Pull

- Retriever goes where human hands cannot
- Extendable magnet easily picks up and retrieves dropped items
- Features an ergonomic grip, a telescopic shaft, powder coated steel casings to reduce side pull, and a powerful, lightweight magnet
- Extends from 6-1/2" to 32"

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

## INSPECTION

### Pick-Up Tools



#### KT170904

##### Telescopic Magnetic Retriever with 5 lb. Pull

- Retriever goes where human heads cannot
- Extendable magnet easily picks up and retrieves dropped items
- Features an ergonomic grip, a telescopic shaft, powder-coated steel casings to reduce side pull, and a powerful, lightweight magnet to reach tight places
- Extendable length: 6-1/2" to 32"

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#### KT170905

##### Telescopic Magnetic Retrieving Tool with 3-1/2 lb. Pull

- Telescopes from 5-1/4" to 24"
- Includes pocket clip

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#### KT170909

##### Heavy Duty Telescopic Magnetic Retriever with 30 Lb. Pull

- Super heavy duty retriever goes where human heads cannot
- Extendable magnet easily picks up and retrieves dropped items
- Features an ergonomic grip, a telescopic shaft, powder-coated steel casings to reduce side pull, and a powerful, lightweight magnet to reach tight places
- Extendable length: 16" to 28"

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#### KT170910

##### Telescopic Magnetic Retrieving Tool 5-1/4" to 22-3/4"

- Telescopes from 5-1/4" to 22-3/4"
- Includes pocket clip

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#### KT170915

##### Telescopic Flexible Head Magnetic Retrieving Tool

- Telescopes from 13" to 20"
- Flexible head
- Telescoping shaft is capable of lifting 3.5 lbs.
- There isn't a lost nut or bolt this tool can't pick up
- Includes pocket clip

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#### LIS66500

##### 4-1/2" to 16-1/4" Magnetic Pocket Size Pickup Tool

- Will retrieve parts and, tools from hard to reach places
- Magnet shielded to concentrate magnetic field at end of tool
- Has a super strong neodymium magnet
- Telescopes from 4-1/2" to 16-1/4". Lifts up to 2 lbs.



#### LIS66540

##### Mini Flex Magnetic Pick-up Tool

- Super strong neodymium magnet
- Picks up all ferrous metal objects up to 2 lbs.
- Adjustable telescoping action
- Extends from 4-1/2" to 13"
- With a 2-1/2" flexible segment to get into tight spots

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



#### LIS66580

##### Flexible 23-1/2" Magnetic Pick-Up

- Adjustable telescoping action extends from 5-3/8" to 23-1/2" with a 3-1/2" flexible segment that holds its shape to get into tight spots
- Super strong neodymium magnet picks up all ferrous metal objects up to 2.5 lbs



#### LIS31140

##### 23" Flexible Retrieving Tool

- 23" flexible cable allows you to get into hard-to-reach areas
- Simply push button on handle and fingers open 3/4" to grab small parts that you can't reach by hand

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



#### LIS31000

##### Flexi Head 14-1/2" to 23-1/4". Magnetic Pickup Tool

- Will retrieve parts and tools from hard to reach places
- Magnet shielded to concentrate magnetic field at end of tool
- Super strong neodymium magnet
- Extends from 14-1/2" to 23-1/4"
- Lifts up to 2-1/2 lbs.

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## INSPECTION

### Pick-Up Tools



**KLEIN TOOLS.**



**KLE56027**

**Telescoping Magnetic LED Pickup Tool**

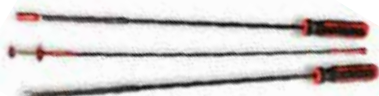
- Telescoping arm extends 22 inches (55.9 cm) beyond your reach
- Rubberized handle for a secure grip
- Powerful magnetic head with 2 pound (0.9 kg) pickup strength
- LED light illuminates the path to and from your target
- Two inch (51 mm) gooseneck end bends to navigate around obstacles



**MLK70227**

**Flexible Magnetic Pick Up Tool**

- Ideal for small and tight spaces
- Can hold up to 300gr
- Neon green handle



**SUNEX13**

**3 Piece Flexible Pick Up Tool Set**

- Flexible ends bend to desired position for quick removal of screw clamps
- Extra long shafts provide access to hard to reach areas
- 24" overall length
- 1/4" bit holder accepts all standard bits
- 1/4" socket driver for use with 1/4" sockets and bit sockets
- Includes: 1/4" Bit Driver & 1/4" Socket Driver, and 2 for 1 magnetic pick-up tool with claw feature



**SES927**

**Retrieving Magnet**

- 8 lb. magnet with nylon head
- Soft vinyl grip
- 180 degree swivel head with double ball hinge head
- 13-1/2" to 23-1/2" telescoping zinc-plated steel handle
- 13-1/2" collapsed, 27" extended overall length



**SES924**

**Telescoping Pocket Magnet (14 lb. Pull)**

- Telescopes 6-1/2" to 32"
- Soft, two-tone grip for stronger more comfortable handling
- Powder coated steel head

**SES925**

**Telescoping Pocket Magnet (14 lb. Pull) with Swivel Head**

- Telescopes 6-1/2" to 32"
- Soft, two-tone grip for stronger more comfortable handling



The SE Elite Line tools feature soft, two-tone grips for stronger, more comfortable handling! This small magnet which telescopes 6-1/2" to 32" with a swivel head, has an amazing 14 lb. pull.



**SES990SM**

**30+ Lb. Super Magnum Telescoping Magnet**

- Telescopes 16" to 28"
- Soft, two-tone grip for stronger more comfortable handling
- Strong, non-bending stainless steel shaft
- Zinc plated steel handle



**SES990FLEXCLP**

**Flex Clamp with Super Magnum Magnet**

- Universal Super-grip spring clamp
- 30 Lb pull magnet base with powder coated steel shroud
- 8-1/2" flexible chrome plated shaft allows infinite flexibility
- Jaws feature pivoting tips • 1" Jaw opening

990FLEXCLP is designed to securely position flashlights, tools and other items to any metal surface providing operator hands free flexibility to perform other tasks. Universal clamp offers a 1" opening with pivoting jaw tips. Clamp hold flashlights, wire, pipe, books, etc.



**ULLGM-2**

**MegaMag® Magnetic Pick-Up Tool**

- Lifts 16 lbs.
- Neodymium - Iron - Boron high flux magnet for maximum strength
- Goblet shaped head shields sides of magnet from attaching to unwanted metal surfaces
- Stainless steel handle telescopes from 8/1/4" to 30-1/4"
- Comfortable textured cushion pistol grip will not slip in wet or oily hands

## INSPECTION

### Pick-Up Tools



# TITAN

#### TIT11065

##### 3 Piece Utility Tool Set

- Mini Magnetic Stainless Tray 4-1/4" in diameter
- Telescoping Inspection Mirror with 1-1/4" mirror. Telescopes from 6-1/2" to 19"
- Telescoping Magnetic Pickup Tool (from 6-1/2" to 33")
- Telescoping Mirror and Magnetic pickup tools both have cushion grips
- Lifetime warranty



#### TIT11159

##### 3LB Pocket Magnetic Retriever

- Magnet strength: 3 pounds
- Telescopes from 5-1/2" to 21-7/8"
- Pocket clip



#### TIT11663

##### Telescoping Magnetic Pickup Tool

- Powerful 5 Lb. magnet with shielded sides for targeted pick-ups
- Telescopes from 6-1/2" to 33"
- Comfortable textured cushion grip
- Made of stainless steel for durability
- Lifetime warranty

# ULLMAN



##### Magnetic Pick-Up Tools with Powercap®

- Neodymium - Iron - Boron extra high flux magnet for maximum strength
- Stainless steel telescoping handle is strong, long and lightweight
- Pocket clip
- Comfortable textured cushion grip keeps handle secure even in wet or oily hands

The Powercap® shields the sides of the magnet from attaching to unwanted metal surfaces and increases the power of the magnet.

##### ULLHT-1 - (Over 2-1/2 lb. Capacity)

- Telescopes from 6-5/8" to 33-1/4"

##### ULLHT-2 - (Over 5 lb Capacity)

- Telescopes from 7-1/2" to 33-1/4"

##### ULLHT-3 - (Over 10 lb. Capacity)

- Telescopes from 8-1/4" to 30-1/4"

##### ULLHT-5 - (Over 2-1/2 lb. Capacity)

- Telescopes from 5-1/2" to 25-1/2"

# ULLMAN



#### ULLHT-2FL

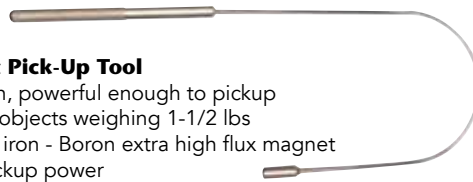
##### 29" Flex Magnetic Pick-Up Tool with Powercap® (5 lb. Capacity)

- Powercap® slides over magnet and shields its sides from attaching to unwanted metal surfaces
- Long aluminum shaft can be bent at any angle to retrieve dropped metal objects in hard to reach areas
- Textured cushion grip will not slip in wet or oily hands

#### ULL14X

##### Flex Magnetic Pick-Up Tool

- Super strength, powerful enough to pickup ferrous metal objects weighing 1-1/2 lbs
- Neodymium - iron - Boron extra high flux magnet for greater pickup power
- Bendable aluminum shaft remains in position
- Long 21-9/16" overall reach



##### Telescopic Magnetic Pick-up Tools

- Handle telescopes from 5-1/2" to 25-9/16"
- This is the ideal tool to retrieve dropped metal objects when working in hard to reach areas
- Strong Neodymium - Iron - Boron magnet lifts 1-1/2 pounds
- Pocket Clip keeps the tool handy and secure in your top pocket

##### ULL15X - Chrome Handle

##### ULL15XGR - Neon Green Handle

##### ULL15XOR - Neon Orange Handle

#### ULLLPT-75

##### LED Lighted Magnetic Pick-Up Tool with Powercap®

- All angle ball joint holds rotating magnetic head at any angle
- LED light illuminates darkened areas
- Retrieves metal objects weighing up to 5 lbs.
- Powercap® shields sides from attaching to unwanted metal surfaces
- Stainless steel handle telescopes from 6-3/4" to 27-1/2"
- Textured cushion pistol grip will not slip in wet or oily hands



## INSPECTION

### Pick-Up Tools



#### VIMFM13724

##### 24" Powerlifter Magnetic Pickup Tool

- Lifts 3 lbs.
- Shielded magnet will not pick up until plunger is pushed
- Microphone type flex stays bent
- Great for picking up magnetic objects



#### VIMLEDM2

##### Led Inspection Light and Magnetic Pick-up Tool

- Super Bright LED Lights
- Magnetic base and tip
- 7" long and extends to 22 inches, for inspection and pickup
- Extends and neck bends to adjust light and pickup magnet
- Push button on/off with pocket clip

This handy inspection light extends to 22" and tip is flexible, also doubles as a magnetic pickup tool with neodymium magnets in base and head.



#### V8T3826

##### Mighty Worm Magnetic Pickup Tool

- Extremely small magnetic head, barely 5mm in diameter
- The head is mounted on an extremely flexible 30" long copper wire
- Extremely powerful, it will pick up more than 1/2 lb.
- Extremely useful in picking up parts in small gaps



#### V8T3822

##### Supercharged Magnetic Pickup Tool

- Comes with a 2.2 lb. pull small head rare earth magnet that can pick up parts and tools in small cracks
- When you need a more powerful pickup tool, you simply put on our supercharger and increase the power to 3.3 lbs.
- Telescoping body extends to over 2' long



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### Video Inspection



**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#### AULMV208-8.5

##### MaxiVideo™ MV208 Digital Videoscope with 2.4" Screen and 8.5mm Head

- 2.4" high resolution full color LCD display (320 x 240)
- Records and plays back still images and video clips
- White LED illuminates the inspection area, with variable brightness control
- 1 M semi-rigid, but flexible watertight shaft
- Comes with narrow 8.5mm probe diameter

This premier MaxiVideo™ MV208 digital videoscope features the ability to record digital still images and MPEG2 or MPEG1 videos either on its internal flash memory or on the removable Micro SD card (optional). The ergonomic tool not only features a 2.4" full color LCD screen, auto focus, and viewing capacity as close as 1" with crystal clear output, but also offers the capability to stream digital video directly to a PC. The multipurpose videoscope is an economical solution to inspect machinery, facilities, and infrastructure in the safest, quickest, and most cost-effective manner possible. Comes with a 8.5 mm Imager head and cable.

#### AULMV208-5.5

##### MaxiVideo™ MV208 Digital Videoscope with 2.4" Screen and 5.5mm Head



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#### AULMV400-5.5

##### MaxiVideo™ MV400 Digital Videoscope with 3.5" Screen and 5.5mm Head

- 3.5" high resolution full color LCD display (320 x 240)
- Records and plays back still images and video clips
- White LED illuminates the inspection area, with variable brightness control
- Rechargeable Lithium-Ion battery for long run time
- Comes with narrow 5.5mm probe diameter

#### AULMV201-8.5

##### MaxiVideo™ MV201 Digital Inspection Videoscope with 8.5mm Camera Head

- 3.5" high resolution full color LCD display (320x240)
- Oil and scratch resistant tempered glass lens
- Wide camera angle for images with 640x480 resolution
- Built-in rechargeable Li-ion battery with up to 5-6 hours of continuous use
- Audio input jack for recording comments with optional ear bud and microphone attachment



## INSPECTION

### Video Inspection

#### AUTEL MaxiVideo



##### MaxiVideo Digital Inspection Camera

- Flexible imager head and cable reach to 3.28'
- Adjustable, white LED lights inspection area
- Waterproof head and cable to 3m (10 feet)
- USB compatible
- Includes magnet, mirror, hook attachments
- Designed to connect with MS908, MS905 or PC computer
- Visually inspect and record difficult-to-reach areas or parts
- Bright LEDs and high resolution (320 x 240 Pixel) camera
- Optimal viewing distance: 0.95 cm to 30 cm (3/8" to 12")

AULMV105 - 5.5mm Head

AULMV108 - 8.5mm Head

#### OTC



##### OTC3880X

##### Automotive Video Scope with 5.5mm Camera

- Micro camera transmits images and video to the removable wireless camera to allow viewing of hard-to-reach areas
- Large 3.5" high-resolution color screen for optimal viewing
- Images and video are recorded on the included SD card and can be viewed on the camera display or transferred to a computer
- Camera head includes four built-in adjustable LEDs for optimal viewing from light to dark areas
- Micro 5.5 mm camera allows for inspection through spark-plug holes

This portable, hand-held video scope, with an industry leading 5.5-millimeter camera, can be used by technicians to inspect hard-to-reach areas that normally require taking an engine apart or removing body panels to inspect.

#### STEELMAN™ PRO



##### JSP78823

##### Wifi Videoscope

- 480p High Definition 5.5mm diameter head, 1M long
- Software interface records video and sound, captures still pictures
- Files can be emailed for further analysis or to show a customer trouble spots that need repair
- Uses 4 AA batteries, run time 2-3 hours
- Works with iPhone, iPad, Windows, and Android Devices with free downloadable app

#### Cal-Van TOOLS



##### CAL84

##### Cal-Van Tools WI-FI Borescope

- Designed to provide the user visual access to dark and confined spaces like never before
- An instrument to detect and view multiple internal parts on all vehicle types
- High-resolution, multiple aspect camera with adjustable LED
- With an independent WIFI signal there's no need to be connected to a computer

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#### LASER ABS



##### LSLTM2000

##### Inspector II - Model 2000 Tint Meter

- 2 piece design allows you to sandwich the glass you are testing
- A magnet alignment mechanism and auto-calibration promote consistently accurate readings
- Can measure ANY windows on a car
- For hard to reach areas, suction cups adhere the light source to the inside of the window
- Auto-calibration, accurate to within ±2%

## INSPECTION

### Listening

#### STEELMAN™ PRO



##### JSP06800 EngineEAR® II Electronic Stethoscope

- dB Meter has 7 sound level control settings - 60 dB to 120 dB for super sensitive noise pick-up and limited distortion of unwanted sounds
- Hi - Low setting on dB Meter allows interpretation of sound on both levels
- dB Meter allows user to detect when battery is low
- Professional headphones shut out surrounding sound
- Non conductive microphone - will not zap expensive computer circuitry

Flexible shaft reaches the tightest areas. Quickly pinpoints noise and location of worn bearings and bushings; noisy valves and lifters; broken, worn gear teeth; faulty fuel injectors, wind or air leaks; annoying squeaks and rattles.



##### LIS52500 Mechanics Stethoscope

- Unique sound chamber and super thin diaphragm greatly amplifies sounds
- Quickly pinpoints the source of noises in engines, transmissions, differentials and bearings
- Skin-packed • Shipping weight: 6 oz.

#### GW GEARWRENCH®



##### KDT835 Mechanics Stethoscope

- Locates source of engine noise quickly
- Disassembles for storage
- Stethoscope has a shock-resistant handle

Having a hard time trying to locate noise in your engine? With this mechanics stethoscope, it allows you to listen for trouble by tracing the sound of water flow, oil, gas, or steam. Identify the piston slap, worn gears, faulty valves, water pump failure, damaged gaskets and defective bearings. It's a time saver!

#### TRACERLINE®



##### TRATP9367 Marksman II Ultrasonic Diagnostic Tool

- Quick diagnosis of leaks
- Convenient easy to use
- Internal noise control
- Easily pinpoints the exact problem source
- Self-adjusting gain control enhances sensitivity

Comes complete with ultrasonic receiver, ultrasonic emitter, air/extension probe, contact probe, headphones and rugged carrying case. Features advanced heterodyne circuitry and "sound signature technology" to convert and amplify inaudible ultrasonic sounds into audible "natural" sounds. Provides quicker diagnosis of leaks and defects before they result in major breakdowns! Detects air brake, compressed air, vacuum, EVAP system and other pressurized leaks quickly and effortlessly. 5-LED signal intensity indicator and audible alarm easily finds exact problem source. Powered by two "D" cell alkaline batteries (included).

## INSPECTION

### Listening

## STEELMAN<sup>™</sup> PRO



**JSP97170**  
**EngineEAR® Elite**  
**Electronic Stethoscope**

- Ergonomic handle design with dual-durometer grip
- Two modes of operation: Electronic stethoscope – use to amplify sound during diagnosis or verification
- Vibration detection – Use to pinpoint faulty: bearings injectors, squeaks, rattles, etc.
- Use noise-cancellation feature while in vibration detection mode
- Mode selection switch with LED indicator
- Packaged in a blow molded carrying case

The EngineEAR® Elite is a compact listening device that combines two functions into one. The technician can quickly eliminate back ground noise while in vibration mode using the mode selection switch. Rotary volume control allows the user to amplify sound as needed. Studio style headset has a tangle free cord. The detachable flexible wand has a bright, LED illuminated tip for easier point of reference and visual into dark, tight spaces.



**LIS52750**  
**Stethoscope Set**

- Dual purpose set detects both mechanical and air induced sounds
- Use the black diaphragm chamber and screw-in metal probe to detect mechanical sounds from bearings, engines, transmissions, etc.
- For air induced sounds, attach the vinyl hose to the hollow tube and funnel assembly. The funnel amplifier will detect noises from vacuum leaks, exhaust leaks, air leaks and wind noise.
- For hard to reach locations, remove the funnel and use the hollow tube

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vehicle | SPECIALTY

## STEELMAN<sup>™</sup> PRO

**JSP91927**  
**Steelman PRO™ Smart Ear 1**

- Turns Smart Device into a sound and vibration detection system
- Diagnose location of unwanted squeaks, noises, and rattles
- Sound level reading displays average, peak, and real-time values
- Sound level readings are displayed in analog or digital formats
- Download the app for free

Smart Ear 1 comes with a sound sensor clamp, sound wand, aluminum probe, ear buds, dual plug dongle connector, dual port dongle, and a nylon storage zipper pouch. The app shows real time, peak, and average decibel levels displayed in analog or digital formats. In addition, the app comes with an equalizer mode which can help drown out background noise while in use.

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**JSP91925**  
**SteelmanPro™ SmartEAR Lite**

Smart Ear Lite comes with a sound wand, aluminum probe, ear buds, dual plug dongle connector, and a nylon storage zipper pouch.

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## INSPECTION

### Listening

## STEELMAN™ PRO



#### JSP91929

##### SteelmanPro™ SmartEAR 2

- Turns Smart Device into a sound and vibration detection system
- Diagnose location of unwanted squeaks, noises, and rattles
- Record feature allows for data capturing and the SmartEAR 2 can email test data for further review by others
- Sound level reading displays average, peak, and real-time values, also the sound level readings are displayed in analog or digital formats
- Download the app for free

Smart Ear 2 by Steelman PRO™ is designed to turn your smart phone or tablet into a diagnostic sound detection device. Simply purchase the hardware and download the free app. Squeak, noise, and rattle detection becomes a breeze. Smart Ear 2 comes with 6 sound sensor clamps, a docking station, sound wand, aluminum probe, bluetooth wireless headphones, and a blow mold case.

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#### JSP06600

##### ChassisEAR® Electronic Stethoscope

- Listen to six different under chassis locations in one road test
- Hear noises that cannot be duplicated in the stall
- Professional headphones shut out surrounding sound
- Six color coded, super sensitive microphone clamps attach to problem area
- 16' wire sensor leads reach to all vehicle locations

Clamp the six sensors on springs, torque rods, shocks, body mounts, brakes, dash assembly, door hinges, drive train, rear or front axle, transmission, transfer case, suspension, sway bars, tie rod ends, struts, axle hubs, ring and pinion bearings, mufflers, catalytic converter, O2 sensors, A/T case, oil pump, or even an un-torqued bolt.

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#### JSP65001

##### EngineEar® Electronic Stethoscope

- Save time when trouble shooting
- Amplifies sound while shutting out surrounding noise
- Non-conductive microphone will not zap computer circuitry
- Flexible shaft reaches the tightest areas
- Carrying case included

Pinpoints noise and location of worn bearings and bushings, noisy valves and lifters, broken or worn gear teeth, faulty fuel injectors, wind or air leaks, annoying squeaks and rattle.

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## TRAILER TESTING

**IPA**  
FUTURE NOW<sup>®</sup>



### IPA9008-SE

#### Super MUTT<sup>®</sup> Trailer Tester Standard Edition

- Perform leak down test on service and emergency lines
- Adjust slackers & measure pushrods using remote control
- Power lights individually, all at once, via auto scan or remote control
- Pulses power to shorted and overloaded circuits (patented Pulsar<sup>®</sup> technology)
- ABS fault codes via Aux and brake circuit activation (i.e. Wabco/Bendix Tab-6 systems)

Includes 1 Remote, 1 Chassis Ground Cable, 1 7-way Pig tail and Glad Hand Hose attachments.

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### IPA9008-DL

#### Super MUTT<sup>®</sup> Trailer Tester Deluxe Edition

The DL Model Kit includes the 7-way pig tail, glad hand hoses, 4 remote controls, steel face shield and rain cover. The Super MUTT<sup>®</sup> Deluxe DL Model places a load on the trailer's electrical circuits to identify wiring problems while providing remote control operation over both air brakes and lights.

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**IPA**  
FUTURE NOW<sup>®</sup>



### IPA9004A

#### Smart MUTT<sup>®</sup> (7 Spade Pin) Trailer Tester

- Powers lights individually or all at once via auto scan or by remote control
- Ground failure detection: differentiates between wire and chassis ground
- Identifies open circuits and cross-wired circuits
- Pulses power to shorted and overloaded circuits (patented Pulsar<sup>®</sup> technology)
- Operates electric brakes by remote control

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### IPA9007A

#### Smart MUTT<sup>®</sup> (7 Round Pin) Trailer Tester

- Power lights individually, all at once, via auto scan or remote control
- Ground failure detection: differentiates between wire and chassis ground
- Identifies open circuits and cross-wired circuits
- ABS fault codes via Aux and brake circuit activation (i.e. Wabco/Bendix Tab-6 systems)
- Pulses power to shorted and overloaded circuits (patented Pulsar<sup>®</sup> technology)

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### IPA9107A

#### Electric Brake Force Meter

- Use on 7-Spade equipped vehicles with integrated and aftermarket brake controllers
- Quickly troubleshoot electrical circuits and ground condition
- Brake Force Meter displays real-time, brake controller output gain and timing
- Microprocessor controlled; simulates trailer brake loads
- 25' cable allows one-man, in-cab testing of brake controller and all truck-side tow circuits, e.g. tail lights, turn signals, electric brakes, etc.



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## TRAILER TESTING

**IPA**  
FUTURE NOW®



**IPA9101**  
**Light Duty Ranger MUTT® Trailer Tester**

- Tests 7-spade, 6-round and 4/5-flat pin type trailer harnesses
- Short circuit protection turn signal simulation and power verification LED
- Water resistant tests lights and electric brakes

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**IPA9102**  
**Heavy Ranger MUTT®**

- Portable, water-resistant trailer tester for lights
- Tests 7-way round pin trailer side harnesses
- Short circuit protection
- Turn signal simulation and power verification LED
- Includes 500mA battery charger

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**Lisle**  
®



**LIS21520**  
**Heavy-Duty Truck Pedal Depressor**

- Depresses and holds clutch pedals and brake pedals
- The two-piece telescoping tool extends to the pedal and locks in position
- Brace the formed plate against the front seat or the steering wheel for firm support
- Tool extends from 18-1/2" to 34-1/2"
- Use to test brake lights, depress clutch, or quickly adjusts RPM to desired setting

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**THEXTON**



**THX393**  
**Universal Throttle Pedal Depressor**

- Saves time on air conditioning work, fuel injection cleaning, cylinder balance tests, tune-ups, etc.
- Quickly adjusts RPM to desired setting
- Eliminates need to remove air cleaner assembly
- This unique tool gives you the ability to attach it to the steering wheel and depress the throttle pedal

**Lisle**  
®

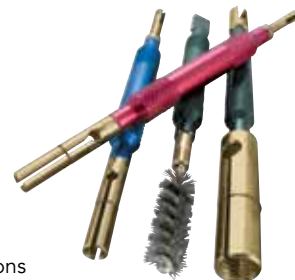


**LIS32150**  
**Power/Ground Outlet**

- For power, connect to the positive terminal
- For electrical ground, attach ground wire from the instrument to be grounded to the negative terminal

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**IPA**  
FUTURE NOW®



**IPA8025**  
**Trailer Plug and Terminal Cleaner Kit**

- For Male and Female Connections
- Cleans 4, 5, 6 and 7 spade trailer terminals
- Maintain continuity and prevent circuit failure
- Quickly and precisely cut away corrosion
- Great for use on many standard bullet and butt connectors

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**IPA8045**  
**3 Piece Plow Connector Terminal Cleaner Set**

- Clean and restore male and female electrical plow connectors used on minute mount and similar set ups
- Remove corrosion and increase harness life
- Applications: Western, Fisher, BOSS, Meyers and more
- Includes leather type holster
- Patented



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## TRAILER TESTING



### IPA8044 Truck and Trailer Connector Cleaner Master Set

- For use on 4, 5, 6, 7 (spade), and 7 (round) truck and trailer male and female terminals
- Includes: (6) Terminal Cleaners, (6) 8mm Swabs, (12) 5mm Swabs and (1) tube of DeoxIT® electrical contact cleaner/enhancer
- Packaged in leather-style holster with magnetic clasp
- Replacement/individual part numbers listed inside package
- Maintains proper surface connections between truck and trailer

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### IPA8048 HD Fleet Technician's Electrical Terminal Maintenance Set

- Clean and restore male and female terminals on fleet connections
- Ensures proper diagnostic connectivity
- Connector types: Deutsch, Cannon, 7-way round pin, Bullet, Weather Pack, common ABS sensor and power connectors, trailer light connectors, common plow connections, etc.

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### IPA7865 7 Round Pin Tractor Trailer Circuit Tester

- Plugs in line to the trailer to allow the truck to power the trailer while you test each circuit
- Troubleshoots tractor trailer circuits
- One person can test all the lighting alone
- Allows you to bypass troubled circuits while on the road
- Eliminates guesswork
- Comes with an extra jumper connector



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### IPATSTPK1 5 Piece Vehicle-Side Trailer Circuit Tester Pack

- Contains a vehicle side tester for 7 spade, 7-round, 6-Round, 4/5 pin and the 3 way trailer adapter
- Eliminate guesswork and trailer wiring nightmares



A 5 piece kit containing 7-way Flat (IP7893), 7-way Round (IP7865L), 6 Round (IP7897), 4/5 pin (IP7866) vehicle side trailer testers along with the three way adapter (IP8000)



### IPA7893 7 Way Flat Pin Trailer Circuit Tester

- Quickly and easily test trailer circuits on most light to medium duty trucks and campers
- Tests vehicle circuits on 7 Flat/Spade Pin connections - quickly identifies faulty circuits
- Made from LEDs and ABS plastic - ensures durability
- 1 Year Limited Warranty

## STEELMAN™ PRO



### JSP78922 Bluetooth Trailer Tester

- Test trailer lights at the trailer hitch using your smart device
- Test running lights, brake lights, reverse lights, turn signals and trailer brake link
- Only one person required for testing
- Compatible with most smart devices
- Free app available for download

## MOTORCYCLE TOOLS

## THEXTON



### THX838 Portable Trailer Light Tester

- Uses alligator clamps so it can be used with any power source
- 8 amp breaker for circuit protection
- Gives you the freedom to check the lights by yourself quickly.
- Test-left and right turn signals, taillights, and brake lights
- Can also test electric brakes, reverse lights, and auxiliary lights if combined with THX839 7 Blade Adapter

## MOTORCYCLE TOOLS

# OTC



### OTC4984

#### Polaris Secondary Drive Clutch Puller

- Removes secondary drive clutches on Polaris ATV & Side x Side 1985-up
- 1" - 12 rolled thread • 5-1/2" total length
- Similar to Polaris Tool # 2870913

### OTC4974

#### Polaris Clutch Puller

- Removes drive clutches on Polaris Side x Side and Snowmobile
- Snow Applications: 700/800 XCR Fuji 3 cylinder engines 1999-2001, all Domestic twin 2-strokes model year 2000 and newer, FS/FST models 2006 and newer
- Side x Side Applications: Ranger RZR XP 2011 & newer
  - 3/4" - 16 thread
  - One year warranty



### OTC4975

#### Polaris Clutch Puller

- Short puller for removal of the drive clutch from the crankshaft taper
- Polaris 550 Sportsman XP 4x4 2009-12, 550 Sportsman (all models) 2010-12 & 570 RZR 4x4 2012
- 800 RZR 4x4 (all models) 2008-12, and Ranger Diesel
- Similar to Polaris Tool # PA-48595



### OTC4986

#### Primary Drive Clutch Puller

- Removes primary drive clutches on Polaris ATV & Snowmobile 1985-up (Except 400, 500, 600, 700, 800 domestic twins, '99 700 & 800 XCR, '99 Trial RMK, & Supersport 550 Fuji.)
- 3/4" - 16 thread, 10-1/2" long
- Similar to Polaris # 2870506
- One year warranty



### OTC4948

#### Water Pump Drive & Rotor Puller

- Polaris Water Pump Drive Gear and Rotor Tool
- Installs the waterpump drive gear on the rotor and removes the rotor from the crankshaft
- This tool also works on RZR XP
- Similar to Polaris Tool # PA-49316
- OTC 1 year warranty



### OTC4989

#### Polaris Clutch Spider Tool

- Essential when servicing or re-building Polaris clutches
- Fits P85 and P90 clutches found on Polaris ATV, Side x Side
- Also Snowmobiles 1972 to Present
- Similar to Polaris Tool # 2870341



# OTC



### OTC4988

#### Polaris Clutch Spider Nut Driver

- Essential when servicing or re-building Polaris clutch
- Fits P85 and P90 clutches found on Polaris ATVs and snowmobiles 1972 to present
- Except 900 RZR XP 4x4 2011-12, 900 RZR XP 4 4x4 2012
- Similar to Polaris Tool # 2870338

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov



### OTC4990

#### Polaris Clutch Holding Tool

- Designed to hold the clutch basket while removing or servicing clutch
- Fits 00-02 Polaris Xpedition models
- Similar to Polaris Tool # PA-44688
- OTC 1 Year Warranty

### OTC4978

#### Polaris Clutch Alignment Tool

- Establishes correct clutch offset and alignment on Polaris EBS clutches
- Similar to Polaris Tool # 2872292
- OTC 1 Year Warranty



### OTC4979

#### Polaris Clutch Alignment Tool

- Establishes correct 1/2" clutch offset and alignment on Polaris ATV & Side x Side
- Similar to Polaris Tool # 28870654
- OTC 1 Year Warranty



## STRATEGIC

TOOLS & EQUIPMENT COMPANY



### STGMS5950

#### Motorcycle-ATV Diagnostic Scan Tool Kit

- Diagnose issues on 39 different brands of motorcycles and ATVs
- Cables sold separately
- Reads and deletes codes, displays live data, runs tests
- Makes adjustments, encodes key fobs
- Updatable via smart card technology