

ENGINE MECHANICAL

Timing & Camshaft Tools



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.



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

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



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

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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

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



ENGINE MECHANICAL

Timing & Camshaft Tools



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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OTC6487

Ford Cam Tool Kit

- Ensures correct cam timing when servicing timing belts, chains, head gaskets, or other valve train repairs
 - For 1992 thru 2004 4.6L, 5.4L V8, and 6.8L V10 engines
- Kit includes: OTC6476, OTC6477, OTC6009 and OTC6020



OTC303-761

Ford Crankshaft Bearing Installer

- Made from high-quality materials to ensure long-lasting performance and durability
- Designed for use with F-Series Super Duty trucks and 6.0L Powerstroke E-Series vans
- Used for diesel applications • Weight: 4.1 lbs



OTC6681

Ford 4.6L, 5.4L, 6.8L 3V Cam Tool Set

- Designed to service Ford 4.6L 3V V8 engines used in 05-10 Mustang, 06-10 Explorer, 09 F-Series trucks
- Designed to service Ford 5.4L 3V V8 engines used in 04-12 F-Series, 05-10 Expedition, 05-12 Lincoln Navigator
- Designed to service Ford 6.8L 3V V10 engines used in 05-12 F-Series 250-350-450
- Tool set covers 1 cylinder head application
- Lifetime Warranty



CTA2864

Volvo Cam Tool

- For models 850, 960, S40, S70 & S90
- For alignment of cam and crankshafts
- Enables correct installation • Cam Locking Tool

OTC6690

36 Piece Ford Master Cam Tool Set

- Kit contains 40 tools to ensure correct cam timing when servicing timing belts, chains, head gaskets, or other valve train repairs
- Kit works on 4 cylinder, 6 cylinder, V-8 V-10's engine configurations
- Covers L4, V6, V8, V10 engines with 2V, 3V, and 4V valve configurations, model years 1991 - present
- Application guide with diagrams and blow molded case included
- The OTC Ford Master Cam Tool Kit has every tool you need to do Ford vehicle cam shaft timing



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.



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

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



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.



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

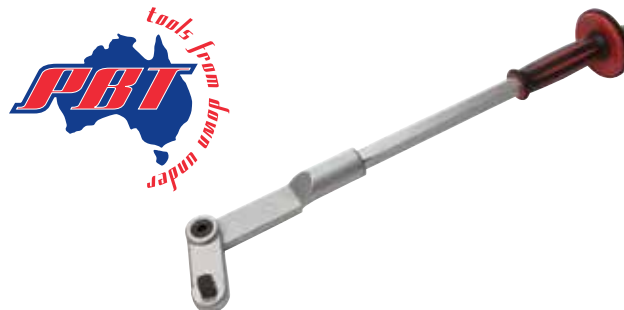
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CTA1069

3 Piece Crank Bolt Socket Set

- Breaks loose crank bolts that other tools can't, found on Toyota & Honda vehicles
- Counter-weighted design for high torque applications
- OAL 89mm w/ 1/2" square drive
- Black finish
- Packed in blow mold case



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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AST 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

ENGINE MECHANICAL

Timing & Camshaft Tools



**ASSENMACHER
SPECIALTY TOOLS**
ASTTOOL.COM



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.



CTA4161

Chevy Camshaft Locking Tool Kit - 1.6 1.8

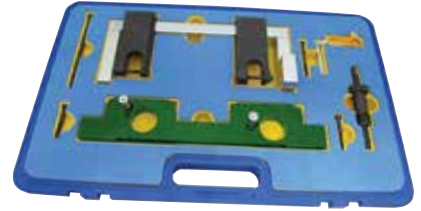
- For locking the camshafts in their required timing position
- Tool will ensure proper alignment of the camshafts. For GM 1.6L & 1.8L 16v engines. Applications: Aveo, Cruze, G3, 9-5, Alfa Romeo & Fiat from 2003-2012.
- For GM 1.6L & 1.8L 16v engines
- Packed in blowmold case
- Applications: Aveo, Cruze, G3, 9-5, Alfa Romeo & Fiat from 2003-2012



OTC522902

Timing Chain Holder

- Secondary Camshaft Chain Holder the 4.7L & 3.7L engine
- Used to hold the Secondary Camshaft Chains in place on the idler sprocket during timing chain installation
- Secondary Camshaft Chain Holder the 4.7L & 3.7L engine



CTA7675

8 Piece BMW N20/N26 Timing Tool Kit

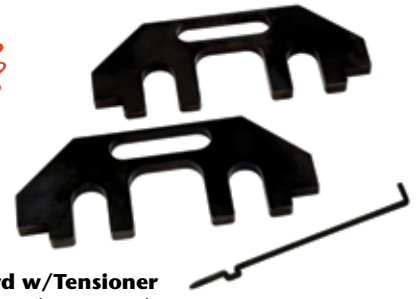
- Aligns camshaft timing at TDC position on N20/N26 engines
- Comparable to BMW Factory tools #83302212831, 83302212830, 83302219548, 1197340
- Packed in blow mold case
- Precision made



CTA1046

GM Timing Tool Kit - 1.4L

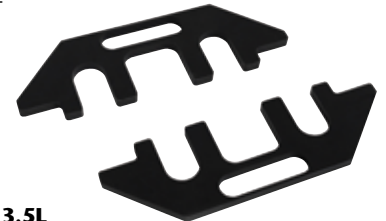
- 1.4L Ecotec Timing tool kit is used to set the timing
- For 2011 & up GM models with the 1.4L Ecotec engine
- Packed in a Blow Mold Case
- Compare to factory tools No. EN-49977-100, EN-49977-200, EN-49978, KM-952, KM-953-A & KM-955
- Applications: Chevy Cruz, Sonic & Trax



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



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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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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PowerSocket

- 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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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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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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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

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LIS53760

Harmonic Balancer Installer Kit, 12 Adapters

- Installs Harmonic Balancers or Drive Pulleys that are pressed on the crankshaft
- Set includes driving screw, thrust bearing and 12 threaded adapters necessary to work on a wide range of domestic and some import harmonic balancers
- Four long adapters for use on Dodge Hemi, Generation III and IV GM motors, some Ford and some Chrysler
- The 1.75" spacer allows the tool to work more effectively on deep harmonic balancers



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.

ENGINE MECHANICAL

Harmonic Balance Tools

OTC



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



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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vehicle | SPECIALTY



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

Cylinder Block & Piston Tools

Central Tools, Inc.



CEN3D301
Storm Brand Import
Cylinder Bore Gauge

Cylinder Bore Gauge Set, 2" to 6" range, .0005" graduations, self centering, in case

GW GEARWRENCH



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)
- Fine-tooth ratcheting lock
- Set includes pliers and 6 bands
- Can be used parallel or perpendicular to the cylinder block

ENGINE MECHANICAL

Valve Tools



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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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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LIS44300

Valve Spring Compressor

- High leverage allows one-hand operation • Rigid frame, 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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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.



OTC4572

Large Valve Spring Compressor

- Designed to compress valve springs on overhead valve engines
- Includes two valve spring adapters, which fit valve spring retainers up to 1" (25mm) and 1-3/16" (30mm)
- Unique, direct action compressor lever gives better visibility of valve spring retainers located in difficult access areas
- Jaw opening of 1-3/8" to 5-5/8" (35 mm to 142 mm); throat clearance of 5-7/8" (150 mm)



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



ENGINE MECHANICAL

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



FOW72-646-300

XTender 6" Cylinder Dial Bore Gauge Set

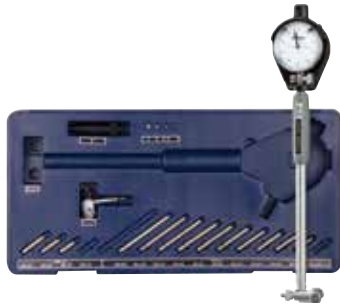
- Range: 2" - 6"
- Graduation: .0005"
- Carbide anvils
- Insulated grip
- Chrome plated handle
- Includes extension holder and fitted case



FOW72-646-220

XTender-Metric Dial Bore Gauge 35-160mm

- Dial Bore Gauge 35-160mm



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



Sending Units & Sockets



AST7801

7 Piece Sensor and Sending Unit Socket Set

- Made of Cr-V for durability

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OTC7219

Oil Pressure Adapter

- Allows for engine oil pressure to be measured
- Installs in place of oil filter providing ports to attach oil pressure tester • Similar to J-42907
- Fits GM 4.8L, 5.3L, 5.7L, 6.0L engines, 1996-2006
- Dual port for bottom or side tester connection



KDT3923

3/8" Drive Oil Pressure Sending Unit Socket, 1-1/16"

- Deep well 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.



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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KT122133

3/8" Drive, 2-in-1 Oil Sender Socket

- Oil sending & stoplight switch socket
- For switches 1-1/16" in diameter
- Height not over 2-5/8" • Chrome vanadium steel

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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



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

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



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



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



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

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

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

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

LIS15520
280 Grit Stone/Wiper Set for the LIS15000

- Contains replacement stones and wipers for engine cylinder hones

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

ENGINE MECHANICAL

Pullers



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



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

MLK650200 Universal Bearing Ring Puller

- 3 legs with gripping principle
- Cutting edge on each leg is pressed into the 0.5 mm radius at the ring
- Clamping chain ensures equal pressure on each leg without any twisting or tilting
- By re-tightening the clamping-chain the bearing is fully gripped and can be pulled off
- Suitable for bearing rings (races) and all kind of bearings and sleeves from 40 - 60 mm



OTC1205 Sleeve Puller Assembly Less 5 lb. Hammer

- Removes cylinder sleeves faster than ordinary pullers because it requires very little setup time
- In most cases, job time will average less than two minutes per cylinder
- The puller features a 5 pound slide hammer to loosen even the most stubborn sleeves
- Puller is for wet type sleeves
- Adjustable jaws fit sleeves 3" to 6-1/2" in diameter



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

2 AND 3 JAW REVERSIBLE PULLERS

Product #	Description	Capacity	Reach	Spread
KT170301	2 Jaw	2 Ton	3-1/4"	4"
KT170302	2-3 Jaw	2 Ton	3-1/2"	4-3/4"
KT170303	2 Jaw	4 Ton	3-1/4"	6"
KT170304	2-3 Jaw	5 Ton	3-1/4"	7"
KT170305	2 Jaw	5 Ton	3-1/4"	6"
KT170306	2-3 Jaw	5 Ton	3-1/4"	7"



2 AND 3 JAW REVERSIBLE PULLERS

Product #	Description	Capacity	Reach	Spread
KT170311	2 Jaw	2 Ton	3-1/2"	4"
KT170312	2 Jaw	5 Ton	3-1/2"	6"
KT170313	2 Jaw	5 Ton	5-1/2"	7"
KT170321	3 Jaw	2 Ton	3-1/2"	4"
KT170322	2-3 Jaw	5 Ton	3-1/2"	7"
KT170323	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
OTC1020	2 Jaw	1 Ton	2-1/8"	3-1/4"	5/16" - 24 x 3-7/8"	9/64"
OTC1021	3 Jaw	1 Ton	2-1/8"	3-1/4"	5/16" - 24 x 3-7/8"	9/64"
OTC1022	2 Jaw	2 Ton	3-1/4"	4"	3/8" - 24 x 4-7/8"	Upper 3/16" Lower 1/8"
OTC1023	2-3 Jaw	2 Ton	3-1/4"	4-3/4"	3/8"-24 x 4-7/8"	Upper - 3/16", Lower 1/8"
OTC1024	2 Jaw	5 Ton	3-1/4"	6"	9/16"-20 x 6-15/16"	Upper - 5/16", Lower - 1/4"
OTC1025	2 Jaw	5 Ton	5-1/2"	6"	9/16" - 20 x 6-15/16"	Upper - 5/16", Lower - 1/4"
OTC1026	2-3 Jaw	5 Ton	3-1/4"	7"	9/16"-20 x 6-15/16"	Upper - 5/16", Lower - 1/4"
OTC1027	2-3 Jaw	5 Ton	5-1/2"	7"	9/16" - 20 x 6-15/16"	Upper - 5/16", Lower - 1/4"
OTC1035	2 Jaw	7 Ton	5"	9"	11/16" - 18 x 9"	Upper - 5/16", Lower - 11/32"
OTC1036	2-3 Jaw	5 Ton	8-3/4"	9-1/2"	11/16" - 18 x 9"	11/32"
OTC1037	2-3 Jaw	7 Ton	5"	10-1/2"	11/16" - 18 x 9"	Upper - 5/16", Lower - 11/32"
OTC1038	2-3 Jaw	7 Ton	8-3/4"	11"	11/16" - 18 x 9"	11/32"
OTC1039	2 Jaw	13 Ton	11"	12"	13/16" 16 x 12"	9/16"
OTC1040	2 Jaw	13 Ton	15-1/4"	15-1/2"	13/16" 16 x 12"	
OTC1041	2-3 Jaw	13 Ton	11"	12"	13/16" - 16 x 12"	9/16"
OTC1042	2-3 Jaw	13 Ton	15-1/4"	17"	13/16" - 16 x 12"	9/16"
OTC1044	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
SUN3905	2 Jaw 4 Way Reversible	2 Ton	3.375"	4"
SUN3907	2-3 Jaw 4 Way Reversible	5 Ton	3.25"	4.75"
SUN3908	2-3 Jaw 8 Way Reversible	5 Ton	5.5"	7"

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



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

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.

ENGINE MECHANICAL

Engine/Gear Holders



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

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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

THEXTON



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

Seal Tools



CTA7643

BMW Crankshaft Seal Removal Kit

- High Quality • Precision made
- 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



OTC7835

Ford Rear Main Oil Seal Kit

- Works on 1994-2003 7.3 diesel engine in Ford 3/4 and 1 ton trucks
- A complete kit with the tools you need to properly remove and install the rear main oil seal and wear ring on the crankshaft
- Eliminates makeshift methods of seal removal and installation that could damage new seal or crankshaft

GW GEARWRENCH



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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ENGINE MECHANICAL

Seal Tools



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



KT170011

Heat Treated Seal Puller Tool

- Two tips to fit all seal sizes
- Removes seal easily without pounding
- Protects bearings and races
- Heat treated for strength-plastic handle
- Lifetime warranty

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LIS58430

Shaft Type Seal Puller

- Drake off road tools features: -Removes cam shaft and crank shaft seals without damage to the shaft engage the adjustable hook behind the seal. Brace the push rod against the engine head and push the handle to remove the seal. Removes the seal without damage to the shaft. -Shaft type seal puller. Product type: -Pullers. Use: -Crankshaft/seal. Multi-use: -Yes. Quantity: -Single. Dimensions: Overall height - top to bottom: -1 inches. Overall width - side to side: -4.25 inches. Overall depth - front to back: -10.5 inches. Overall product weight: -0.44 pounds.
- Removes the seal without damage to the shaft



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

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

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

vehicle | SPECIALTY

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



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



OTC7312

O-Ring and Seal Pick

- Pick has a metal shaft
- Weight: 2 oz.



Flywheel Tools

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).

OTC



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.

ENGINE MECHANICAL

Flywheel Tools



**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



**LIS22100
Flywheel Locking Tool
for 6.6L Duramax**

- Locks flywheel in place when removing harmonic balancer on 6.6L Duramax engines with Allison automatic transmissions
- Saves time by locking the flywheel at the transmission instead of having to remove the starter
- Use 36mm 12-point socket with 3/4 square drive to remove harmonic balancer bolt and retorque on installation

Prop Tools



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

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



**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

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



**VIMV387
Hood Holder**

- Adjustable length, 28" thru 46"



**VIMV388
20" to 46" Telescoping Hood Prop**

- Anodized aluminum
- Adjustable length: 20" thru 46"