

# AUTOMOTIVE SPECIALITY

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AC52225C  
DUAL LASER  
INFRARED THERMOMETER

- Dual laser provides pinpoint accuracy
- 12:1 Distance-to-spot ratio
- Max temperature display
- Backlit display



- INCLUDES:
- 2 x AAA Batteries
  - 1 x Blow-moulded case

PRODUCT #	ACCURACY	BATTERY LIFE APPROX. HOURS	DISPLAY ILLUMINATION	EMISSIVITY	FIELD OF VIEW RATIO	MODES	NON-CONTACT TEMPERATURE RANGE	POWER OFF	RESOLUTION	RESPONSE TIME	TARGET INDICATOR
AC52225C	±2% of reading	180	Backlit Colour LCD	0.95	12:1	MAX	-76° to 1022°F (-60° to 550°C)	Auto after 15 seconds	0.1° F / 0.1° C	1 Second	Dual Laser Spot

AC72475  
UNIVERSAL HYDRAULIC  
FLARING TOOL KIT

- Fabricates push-connect 1/4," 5/16," and 3/8"; for use with GM® fuel line flares, brake lines and transmission 5/16" and 3/8"; flare/double flare 3/16," 1/4," 5/16," 3/8," and 1/2"; metric bubble flare 4.75mm, 6mm, 8mm, and 10mm



AC70089A  
2 PIECE TUBING CUTTER KIT

- INCLUDES:
- TCM130B Cutting Wheel  
Cuts hard or soft copper, aluminium, brass, thin wall steel, and stainless steel tubing. Heavy-Duty mini cutter is designed for applications with limited working space
  - TC126A Cutting Wheel  
Cuts copper, aluminium, or thin wall steel tubing. Clean right angle cuts with no burrs or chips

PRODUCT #	DESCRIPTION	SET
AC70089A	2 Piece Tubing Cutter Kit	
TC126A	Heavy-Duty Tube Cutter 1/8" To 1-1/8" (3-28mm) O.D. Tubing (1/4" - 1" Nominal)	•
TCM130B	Mini Tube Cutter 1/8" To 5/8" (3-16mm) O.D. Tubing (1/8" - 1/2" Nominal)	•



TCM130B  
TUBING CUTTER 1/8" - 5/8"

- Heavy-duty mini cutter is designed for applications with limited working space
- Cuts copper, aluminium, brass, thin-wall steel, and stainless steel tubing 1/8" - 5/8"

TC126A  
TUBING CUTTER 1/8" - 1-1/8"

- Cuts copper, aluminium or thin-wall steel
- Makes right angle cuts with no burrs or chips





# BATTERY & RADIATOR

## ELECTRICAL SYSTEM TESTERS



### BT3180D DIGITAL BATTERY LOAD TESTER / CHARGING SYSTEM ANALYSER

- Performs state of charge, battery load test, and starting system test
- Microprocessor controlled
- 12V Only
- 100-Amp Load test

### MT3809A / MT3809A-OR / MT3809A-GR 40-1200 CCA ELECTRONIC BATTERY AND SYSTEM TESTER

- Features an operating range of 7-15V and the capacity to test batteries rated between 40-1200 CCA
- It adds the convenience of starting and charging system testing and offers quick assessment, providing both a numerical result and a pass/fail result
- Reverse polarity and over-voltage protection
- Small, portable, pocket-sized
- Tests multiple battery types
- Wide operating range



### B120BDM OBDII MEMORY SAVER

- Developed to protect the internal memory of the car when the battery is disconnected. (radio, diagnosis code ...)
- This unit is connected via the OBDII port of the car to the booster, which acts as an external battery
- For all 12 Volt vehicles
- 16 point OBD plug. OBDS / EODS



# BATTERY & RADIATOR

## BATTERY SERVICE

### L54150 BATTERY TERMINAL / WIPER ARM PULLER

- Removes battery terminals and bolted on wiper arms
- Tighten knurled cone to force jaws under the cable clamp
- Turn centre screw to lift clamp off terminal
- Also removes bolted on windshield wiper arms that fit over a tapered spline
- The puller screw pad is designed to fit the top of the spline post for easy pulling



### BT12 BATTERY HYDROMETER

- Small tip permits easy entry into small 12V batteries
- Temperature compensating
- Accurate to within .003 gravity points



### BPKIT2 7 PIECE BATTERY TOOL KIT

PRODUCT #	DESCRIPTION	SIZE	SET
BPKIT2	7 Piece Battery Tool Kit		
BTB541	4-in-1 Terminal Cleaner	—	•
BCS720	Battery Terminal Spreader/Cleaner	—	•
BP21K	Battery Terminal Lifter	—	•
BP23K	Battery Terminal	10mm	•
BP25K	Battery Pliers	—	•
BP26K	Battery Terminal Ratchet	5/16"	•
BP27K	Battery Terminal Ratchet Extended	5/16"	•

### BCC796 BATTERY CABLE CUTTERS

- Precision-ground blades cleanly cut without distorting soft copper cable
- 6" (152.4mm) handles for extra pressure
- Ground blade guide to minimize deflection
- Jam nut on joint to maintain even pressure on ground inside surface of blades
- Capacity: Up to and including 2/0 cable
- Overall length: 9" (228.6mm)

### BT3180D 15A SMART BATTERY CHARGER

- 100% Automatic
- Charge all lead acid batteries: liquid, VLRA, AGM, gel
- Start, Stop battery, and vehicles compatible
- 6-Language interface
- Polarity inverting protection
- Wrong voltage protection
- No Spark technology
- 8-Step intelligent charging program
- Battery maintainer mode
- Output voltage limited at 14.7V
- Advanced showroom mode



### MTPROG 12V PRO BOOSTER PACK

- Integrated battery charger within the booster
- Power fuse for increased safety & protection against short circuit or overcharge
- Updated heavy duty clamps
- High current capability for use on old / worn engines
- Light, workshop fluid resistant casing with easy transport handle



# BATTERY & RADIATOR

## BATTERY SERVICE



### BR6 BATTERY TERMINAL RESHAPER

- Reshapes negative and positive posts while improving electrical connections
- One tool provides a perfect match for posts and terminal clamps



### BTB1A BATTERY POST AND CABLE CLEANER

- Protective cover fits both ends
- Clean top terminals and top posts
- Ensures a great connection between battery cable and battery

# BATTERY & RADIATOR

## COOLING SYSTEM SERVICE

### UCT750C UNIVERSAL COOLING SYSTEM PRESSURE TESTER

- Universal radiator adapter that fits every vehicle, eliminating the need for multiple adapters forever
- Elastomeric adapters are engineered with varying durometer ratings, ensuring maximum versatility and performance
- Expands to fit every vehicle and works with any pressure pump



### PT730MB COOLING SYSTEM PRESSURE TESTER

- Test all systems from 4 PSI to 30 PSI caps and 1.36kg to 13.6kg (3 lb. to 30 lb.)
- Large special coated barrel quick pump
- Easy-to-read professional 2-1/2" gauge
- Compatible with all testing adapters offered by Mac Tools®



# BATTERY & RADIATOR

## COOLING SYSTEM SERVICE



### 107A PROPYLENE GLYCOL ANTIFREEZE TESTER

- Tests all propylene glycol based antifreeze including Sierra®
- The number of floating discs indicates the degree of coolant protection
- Temperature compensating with both Fahrenheit and centigrade scales
- Durable break-resistant plastic housing



### 106A ETHYLENE GLYCOL ANTIFREEZE TESTER

- Tests all ethylene glycol based antifreeze including Dexcool®
- Temperature compensating with both Fahrenheit and centigrade scales
- Durable break-resistant plastic housing



### TP727B REFRACTOMETER WITH AUTOTEMP

- Test propylene glycol including Sierra®
- Test ethylene glycol including Dexcool®
- Calibration adjustment screw
- Auto-temperature adjustment
- Adjustable lens focus

#### SCALE RANGE:

- E: -64° to 0° C
- P: -51° to 0° C
- B: 1.100 to 1.400sg



### 17972 4.5 GALLON OVAL DRAIN PAN, BLACK

- For easy transfer of liquids
- 6.25" pan height to fit tight spaces
- High-density polyethylene material is resistant to chemicals and solvents
- Easy-to-clean





### FEATURES

- High carbon, heat-treated steel construction
- Positive clamping without springs or adjustments
- For pinching off flexible fuel, brake, and vacuum hoses
- Black-oxide finish



**HCP554**  
MINI HOSE  
PINCH-OFF PLIERS

**HCP555**  
AUTOMATIC  
PINCH-OFF PLIERS

**HCP556**  
HEAVY-DUTY LARGE AUTO  
PINCH-OFF PLIERS

PRODUCT #	O.D. CAPACITY	OVERALL LENGTH	WEIGHT (OZ.)
HCP554	3/4"	5-1/2"	4
HCP555	1-3/4"	9-1/4"	12.5
HCP556	2-1/2"	13-3/4"	19

### PISTOL-GRIP PINCH OFF PLIERS

- Angled design allows for access to areas some straight pliers cannot reach
- Self-locking mechanism holds pliers to hose with a simple squeeze



**POP11**  
SMALL PISTOL-GRIP  
PINCH-OFF PLIERS

**POP12**  
MEDIUM PISTOL-GRIP  
PINCH-OFF PLIERS

**POP13**  
LARGE PISTOL-GRIP  
PINCH-OFF PLIERS

**HCP733A**  
STANDARD STRAIGHT  
HOSE CLAMP PLIERS

- Standard straight hose clamp pliers for removal of metal or plastic self-tightening hose clamps 11/16" - 2-1/2"



**HCP734A**  
FLAT BAND HOSE  
CLAMP PLIERS

- Use to install and remove flat type hose clamps
- Pliers latch in position to hold clamp
- Swivel jaws grip at any angle



**HC4SET**  
4 PIECE HOSE CLAMP PLIERS SET

- One-hand locking style
- Access open hard-to-reach flat band hose clamps
- Pinch and lock closed vent, radiator, vacuum, and fuel hoses/lines
- Pinches off and locks rubber tubing or lines
- The round nose profile prevents damage of hoses



PRODUCT #	DESCRIPTION	SIZE	JAW THICKNESS	THROAT DEPTH	SET
HC4SET	4 Piece Hose Clamp Pliers Set				
HCP900	Locking Hose Clamp Pliers	7"	-	-	•
HCP901	Locking Hose Clamp Pliers	9"	-	-	•
HPP900	Pinch-Off Pliers	7"	1/4"	1"	•
HPP901	Pinch-Off Pliers	9"	1/4"	4"	•

**HFL4790**  
HOSE AND FUEL LINE  
REMOVAL PLIERS

- Used to remove 3/16" to 1/2" vacuum and fuel hoses



**MC4200**  
MULTI-CUTTER WITH  
REVERSIBLE BLADE

- Cuts flexible hose up to 1-1/4"
- Comes with loop for safe storage
- Double-sided long-lasting blade





### PSR7DR 7 PIECE MAC-GRIP™ RADIATOR PICK SET

- Specifically-designed for ease of access into tight or unique spaces, providing leverage in close quarters, positioning or retrieval of parts and easily manoeuvre around obstacles that otherwise would be troublesome

PRODUCT #	DESCRIPTION	BAR LENGTH IN. / MM	OVERALL LENGTH IN. / MM	SET
PSR7DR	7 Piece Mac-Grip™ Radiator Pick Set - Red			
RADP1DR	Mac-Grip™ Hose And Clamp Pick - Hi-Vis	6" / 152	10-3/4" / 273	•
RADP2DR	Mac-Grip™ Hose Puller - Hi-Vis	6" / 152	10-3/4" / 273	•
RADP3DR	Mac-Grip™ Offset Hose Pick - Hi-Vis	6" / 152	10-3/4" / 273	•
RADP4DR	Mac-Grip™ Long Reverse Offset Hose Pick - Hi-Vis	10" / 254	14-3/4" / 375	•
RADP5DR	Mac-Grip™ Long Bent Offset Hose Pick - Hi-Vis	10" / 254	14-3/4" / 375	•
RADP6DR	Mac-Grip™ Long Offset Hose Pick - Hi-Vis	10" / 254	14-3/4" / 375	•
SWL70DR	Mac-Grip™ 90° Hook And Pick - Hi-Vis	5" / 127	9-3/4" / 248	•



# BRAKE & WHEEL

## TYRE INFLATION

### QLC90 TYRE CHUCK QUICK-LOCK

- 90° Lock-on chuck
- Quick-release knob
- Closed end valve style for air supply directly from air line
- 1/4"-18 FNPT with 5/8" hex nut
- Overall length: 5-9/16"



### TG400 LOCKING STRAIGHT-ON CHUCK

- Dual foot 1/4" Female NPT
- Deep well lock
- Locks on valve when tilted
- For hard-to-reach valves



### TG570 DUAL END TYRE GAUGE - 12"

- Use on Budd style tyre valves
- 30° Reverse chuck
- Range: 10 - 150 PSI



### VT43P VALVE CORE TOOL

- Slotted end removes and replaces valve cores
- Operates like a screwdriver
- Comfort-Grip™ handle



### S444 2-IN-1 COMBINATION VALVE CORE TOOL

- One end for large bore, one end for standard sizes
- Heavy-duty firm grip



### DT150-38CV DIGITAL TYRE GAUGE WITH STRAIGHT CHUCK

- Range: 0 - 160 PSI
- 2" Dial with 17-1/2" hose
- Temperature and pressure compensation
- Bleed feature
- Increments of 1.0 PSI



### 14100470 TYRE VALVE INSTALLER

- Swivel head screws onto cap thread of tyre valve
- Handle is used as a lever to pull tyre valve into rim hole
- Overall length: 11-3/4"



### S445 VALVE REPAIR TOOL

- Re-threads inside and outside of valve stem
- Inserts or removes cores
- Provides quick, easy removal of broken cores



### TDG120 DIAL TYRE 2-IN-1 GAUGE

- Fully-g geared 1/32"(1mm) increment precision brass movement
- Shock-absorbing protective cover
- Pressure Range: 8-120 PSI
- 2 PSI (20 kPa) Increments
- Tread Depth Range: 0-15/32" (0-12mm)
- Dial: 2" (50.8mm)



### TGD100AA DIAL TYRE PRESSURE GAUGE

- Large 2" (50.8 mm) dial
- 14" (355.6 mm) hose
- Reads in pounds per square inch (PSI) and kilopascal (kPa)
- Bleeder valve





# BRAKE & WHEEL

## AXLE NUT SOCKETS

### AS4549B

#### 3 PIECE 1/2" DRIVE AXLE NUT SOCKET SET - 12-PT.

- Featuring 39mm socket applications:
  - 2008 - '10 Toyota® Land Cruiser;
  - 2008 - '10 Toyota® Sequoia;
  - 2007 - '10 Toyota® Tundra;
  - 2008 Lexus® LX 570
- Most popular axle nut sockets for larger automobiles and SUVs
- Blow-moulded case

PRODUCT #	DESCRIPTION	SIZE (MM)
AS4549B	3 Piece 1/2" Drive Axle Nut Socket Set - 12-PT.	
454930	Axle Socket - 12-PT.	30
454936	Axle Socket - 12-PT.	36
454939	Axle Socket - 12-PT.	39

### TFL3-SET

#### 3 PIECE 1/2" DRIVE THIN-WALL IMPACT SOCKET SET - 6-PT.

- Covers three of the most common wheel lug sizes on the market today
- Thin-wall design allows access to wheel lugs where standard sockets will not fit

### EXT3 (NOT SHOWN)

#### 3" IMPACT EXTENSION

PRODUCT #	DESCRIPTION	DRIVE SIZE	SIZE
TFL3-SET	3 Piece 1/2" Drive Thin-Wall Impact Socket Set - 6-PT.		
TFL-1921	Thin Wall Impact Socket	1/2"	19-21mm
TFL-3413	Thin Wall Impact Socket	1/2"	3/4"-13/16"
TFL-7815	Thin Wall Impact Socket	1/2"	7/8"-15/16"

### TTWP

#### TRUCK AND TRAILER WHEEL PAN

- Fits tyre rims with 13-3/4" I.D. and larger
- Handle compartments hold hub nuts out of the oil
- Made of polypropylene for durability
- Capacity: 88 oz.



### STLSC-SET

#### WHEEL STUD CLEANING KIT

- Allows for quick and easy stud cleaning
- Designed to be used with a cordless drill
- Contains 1/2" drive hex bit, 1/2" drive quick change adapter, and six brush heads
- Includes brush/stud sizes: 12mm (7/16"), 14mm (9/16"), 16mm (5/8"), 22mm (7/8"), and 28mm (1-1/8")



### AS4548B

#### 8 PIECE 1/2" DRIVE AXLE NUT SOCKET SET - 6-PT.

- Installs axle nuts on front axle hubs
- Durable impact-grade alloy steel
- Extra deep to fit over various axle lengths
- Works where standard sockets won't

PRODUCT #	DESCRIPTION	SIZE MM
AS4548B	8 Piece 1/2" Drive Axel Nut Socket Set - 6-PT.	
454829	Axle Nut Socket - 6-PT.	29
454830	Axle Nut Socket - 6-PT.	30
454832	Axle Nut Socket - 6-PT.	32
454834	Axle Nut Socket - 6-PT.	34
454835	Axle Nut Socket - 6-PT.	35
454836	Axle Nut Socket - 6-PT.	36
454838	Axle Nut Socket - 6-PT.	38
454839	Axle Nut Socket - 6-PT.	39

# BRAKE & WHEEL

## AXLE NUT SOCKETS

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### HT976B

#### 8 PIECE 1/2" DRIVE AXLE NUT SOCKET SET - 12-PT.

- Fits axle nuts and automatic transmission tail output shafts on Toyota®, Lexus®, Chrysler®, Dodge®, Jeep®, Audi®, VW®, and BMW®, as well as many other makes
- Blow-moulded case



### AS4547C

#### 7 PIECE 1/2" DRIVE AXLE NUT SOCKET SET - 6-PT.

- 1/2" drive chrome-molybdenum sockets for heavy-duty use
- Blow-moulded case

PRODUCT #	DESCRIPTION	SIZE (MM)
HT976B	8 Piece 1/2" Drive Axle Nut Socket Set - 12-PT.	
97629	Axle Nut Socket - 12-PT.	29
97630	Axle Nut Socket - 12-PT.	30
97632	Axle Nut Socket - 12-PT.	32
97634	Axle Nut Socket - 12-PT.	34
97635	Axle Nut Socket - 12-PT.	35
97636	Axle Nut Socket - 12-PT.	36
97638	Axle Nut Socket - 12-PT.	38
97639	Axle Nut Socket - 12-PT.	39

PRODUCT #	DESCRIPTION	SIZE MM
AS4547C	7 Piece 1/2" Drive Axle Nut Socket Set - 6-PT.	
454729	GM®, Ford®, Asian	29
454730	GM®, Asian	30
454732	Honda®, Chrysler®	32
454734	GM®	34
454735	GM®	35
454736	GM®, Ford®, Chrysler®	36
454738	Full-Size and SUVs	38

### STLWH2

#### TRUCK WHEEL HUB CLEANING TOOL

- Impact rated
- Removes rust, corrosion and other build-up from wheel stud, drums and tyre rim.
- Replacement cleaning discs available

### STLWH2PD

#### 6 PACK TRUCK WHEEL HUB CLEANING TOOL REPLACEMENT PADS



### STLWH1

#### WHEEL HUB CLEANING TOOL

- Attaches to 1/2" drive impact wrench
- Resurfaces brake rotor hub section for a cleaner mating surface with the wheel

### STLWH1PD

#### 6 PACK WHEEL HUB CLEANING TOOL REPLACEMENT PADS





# BRAKE & WHEEL

## WHEEL NUT SOCKETS



### 3TWSS 3 PIECE WHEEL PROTECTIVE SOCKET SET

- Thin wall design for tight access wheel lug openings
- Polypropylene sleeve protects high end alloy wheels
- Polypropylene insert protects lug nuts from damage
- Colour coded sleeves for easy identification
- Includes: 17, 19 & 21mm

### WBRI904 22 PIECE WHEEL BEARING REPLACEMENT KIT

- For use on front wheel drive cars and light trucks
- The wheel bearing adapters allow the user to replace the wheel bearings with the steering knuckle and strut assembly intact on the vehicle
- Eliminates the need for a front end alignment once completed

- INCLUDES:**
- 13 x Bushings
  - 4 x Sleeves
  - 2 x Sleeve Plates
  - 1 x Sliding Screw
  - 1 x Nut
  - Washers



### DBL6-SETA 6 PIECE DOUBLE-DUTY FLIP SOCKET SET

- One end is a standard 6-PT. socket
- Other end is a twist socket, damaged wheel lug remover

PRODUCT #	DESCRIPTION	NOMINAL SIZE IN.	NOMINAL SIZE MM.
<b>DBL6-SETA</b>	6 Piece Double-Duty Flip Socket Set		
<b>DBL-13A</b>	Double-Duty Flip Socket	13/16"	—
<b>DBL-17MA</b>	Double-Duty Flip Socket	—	17
<b>DBL-19MA</b>	Double-Duty Flip Socket	—	19
<b>DBL-21MA</b>	Double-Duty Flip Socket	—	21
<b>DBL-78A</b>	Double-Duty Flip Socket	7/8"	—
<b>EXT3</b>	3" Impact Extension	—	—



### STFL3SET 3 PIECE THIN WALL FLIP SOCKET SET

- Dual-sided flip sockets cover the four most common metric lug nut sizes
- Plastic sleeves to protect wheels
- Thin wall design provides greater access than standard wheel lug sockets
- Set includes 3" impact extension

- INCLUDES:**
- 2 x Sockets
  - 1 x 3" Impact extension

# BRAKE & WHEEL

## WHEEL NUT SOCKETS

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### TFL6-SET 6 PIECE THICK AND THIN FLIP SOCKET SET

- One end is a standard wall 6-PT., the other is a thin wall 6-PT. socket of the same size



WTE1470

### WTE1470 / WTE1463 WHEEL TORQUE EXTENSION SETS

PRODUCT #	COLOUR	RATING FT.-LBS.	SIZE	SET
<b>WTE1470</b>	7 Piece Wheel Torque Extension Set			
<b>WTE1463</b>	5 Piece Wheel Torque Extension Set			
<b>WTE1463-C</b>	Gray	100	1/2"	• •
<b>WTE1463-E</b>	Blue	80	1/2"	• • •
<b>WTE1463-F</b>	Yellow	65	1/2"	• • •
<b>WTE1463-I</b>	White	120	1/2"	• • •
<b>WTE1463-K</b>	Purple	110	1/2"	• •
<b>WTE1463-Q</b>	Aqua	140	1/2"	• • •
<b>WTE1463-BB</b>	Orange	160	1/2"	• •



### WTK1503 9 PIECE 1/2" DRIVE WHEEL TORQUE SET

PRODUCT #	COLOUR	RATING FT.-LBS.	SIZE IN.	SIZE MM
<b>WTK1503</b>	9 Piece Wheel Torque Master Set			
<b>WTK1503-A</b>	Brown	100	13/16"	—
<b>WTK1503-B</b>	Orange	80	—	21
<b>WTK1503-C</b>	Gray	100	3/4"	19
<b>WTK1503-E</b>	Blue	80	3/4"	19
<b>WTK1503-F</b>	Yellow	65	3/4"	19
<b>WTK1503-G</b>	Red	80	—	17
<b>WTK1503-I</b>	White	120	7/8"	—
<b>LOC1500Q*</b>	Aqua	140	7/8"	—
<b>LOC1500BB*</b>	Turquoise	150	—	21

\*Not available as an individual SKU.



# BRAKE & WHEEL

## BRAKE TOOL SETS

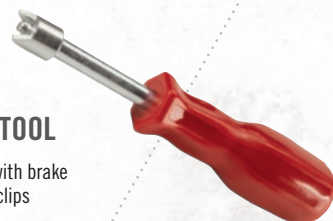
### L44800 HEAVY-DUTY BRAKE SPRING TOOL

- Removes and installs larger springs that don't use an anchor pin
- Also works on springs with an anchor pin



### L48400 BRAKE CLIP TOOL

- For import cars with brake shoe hold-down clips



### CF330 4-IN-1 HONE KIT

#### INCLUDES:

- Adjustable Foreign Car Brake Hone, 1/2" - 2-1/4" (12.7mm - 57.2mm)
- Adjustable Disc Brake Cylinder Hone, 1-1/4" - 3-1/2" (31.8mm - 88.9mm)
- Adjustable Brake Cylinder Hone, 3/4" - 2-1/2" (19.1mm - 63.5mm)
- Adjustable Small Engine Cylinder Hone, 1-1/4" - 3-1/2" (31.8mm - 88.9mm)
- Convenient Storage Box



### BT97841A COLOUR-CODED DISC BRAKE LINING GAUGE

- Easily identifies if pads are still good (green), should be watched (yellow), or need replacement (red)
- Excellent for your customer to understand why a brake job is necessary



### BP6596 DISC PAD MEASURING TOOL

- Colour-coded brake pad gauge allows for a definitive measurement of brake pads to determine remaining life
- Unique design allows for measurement on the vehicle without the removal of any components



# BRAKE & WHEEL

## TUBING CUTTERS

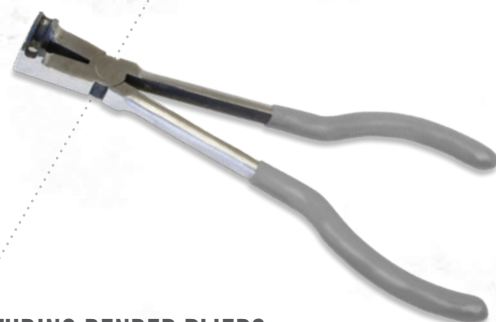


### TB410 TUBING BENDER PLIERS

- Bends 3/16", 1/4", 5/16", and 3/8" copper and steel tubing without kinking or collapsing

#### INCLUDES:

- 2 x Investment Cast Adapters



### TB441 3/16" TUBING BENDER PLIERS

- Head design bends tubing without collapsing the tube or marking the tube surface
- Handles are more than 3-1/4" apart for proper leverage, even when handling steel tubing
- Bends 3/16" brake lines in tight spots without kinking or flattening
- Bends all types of 3/16" O.D. tubing

# BRAKE & WHEEL

## TUBING CUTTERS



### TC030 TUBE CUTTER 3/8" - 1-1/8"

- Heavy-duty mini cutter designed for applications with limited work space
- Cuts copper, aluminium, brass, thin wall steel, and stainless steel tubing
- Cuts tubing 3/8" to 1-1/8" in diameter

### 70034-1 (NOT SHOWN) REPLACEMENT CUTTING WHEEL FITS TC030



### TTC157 TENSION TUBE CUTTER 3/16" - 7/8" (5MM - 22MM)

- The constant pressure tube cutter utilizes a spring to keep consistent compression on the cutting blade to the tube
- Allows the user to cut through thin walled steel tubing without having to continually
- tighten or readjust the cutter
- Accepts a tubing range of 3/16" - 7/8" (5mm - 22mm)



### TTC158 TENSION TUBE CUTTER 1/8" - 1-1/8" (3MM - 30MM)

- The constant pressure tube cutter utilizes a spring to keep consistent compression on the cutting blade to the tube
- Allows the user to cut through thin walled steel tubing without having to continually
- tighten or readjust the cutter
- Accepts a tubing range of 1/8" - 1-1/8" (3mm - 30mm)

### AC70089A 2 PIECE TUBING CUTTER KIT

PRODUCT #	DESCRIPTION	SET
AC70089A	2 Piece Tubing Cutter Kit	
TC126A	Heavy-Duty Tube Cutter 1/8" To 1-1/8" (3-28mm) O.D. Tubing (1/4" - 1" Nominal)	•
TCM130B	Mini Tube Cutter 1/8" To 5/8" (3-16mm) O.D. Tubing (1/8" - 1/2" Nominal)	•



### TC126A TUBING CUTTER 1/8" - 1-1/8"

- Cuts copper, aluminium or thin-wall steel
- Makes right angle cuts with no burrs or chips

### TCW062 (NOT SHOWN) REPLACEMENT CUTTING WHEEL FITS TC126A

### TCM130B TUBING CUTTER 1/8" - 5/8"

- Heavy-duty mini cutter is designed for applications with limited working space
- Cuts copper, aluminium, brass, thin-wall steel, and stainless steel tubing 1/8" - 5/8"

### TCW030 (NOT SHOWN) REPLACEMENT CUTTING WHEEL FITS TCM130B



# BRAKE & WHEEL

## FLARING TOOLS



### FT159B METRIC DOUBLE FLARE TOOL

- Will flare soft steel and copper tube
- Features forged wing nuts for strength

#### INCLUDES:

- 1 x Reamer to Remove Burrs from Cut Tubing
- 5 x Adapters 4.75, 5, 6, 8, and 10mm



### FT158B DOUBLE FLARING TOOL

- Flares soft steel and copper tube
- Includes five adapters: 3/16", 1/4", 5/16", 3/8", and 1/2"
- Reamer to remove burrs
- Forged wing nuts for strength

### FT158A-3 (NOT SHOWN) 5/16" DOUBLE FLARING ADAPTER

### AC72475 UNIVERSAL HYDRAULIC FLARING TOOL KIT

- Fabricates push-connect 1/4", 5/16", and 3/8"; GM® fuel line flares, brake lines and transmission 5/16" and 3/8"; flare / double flare 3/16", 1/4", 5/16", 3/8", and 1/2"; metric bubble flare 4.75mm, 6mm, 8mm, and 10mm
- GM® fuel line flare and brake lines



### FS242 COMBO FLARING TOOL KIT

- Works on aluminium, copper, and soft steel tubing

#### INCLUDES:

- All Adapters and Tools Necessary for Single and Double Flaring (Standard and Metric)
- 1 x ISO Bubble Flare

*Not recommended for use on stainless steel*

### HTBFT BRAKE LINE FLARING TOOL 3/16" X 4.75MM

- Flares 3/16" and 4.75mm tubing for Bubble or double flares
- Easy grip handle makes flares on the vehicle easy
- Easy line up hole for the tubing



# BRAKE & WHEEL

## BRAKE SPRING TOOLS

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### BSP592 TRUCK BRAKE SPRING PLIERS

- Designed to remove and install the brake shoe return springs on medium-duty and heavy-duty drum brakes



### S14AP 15/16" BRAKE SHOE RETAINING SPRING COMPRESSOR

- For Bendix® brakes
- Larger Bendix® springs

### BST4510 BRAKE SPRING TOOL

- Designed for import car brake return springs
- Removes and installs import and domestic brake springs that don't use an anchor pin



### BRAKE ADJUSTING SPOONS

PRODUCT #	BLADE WIDTH IN. / MM	MAKE	OVERALL LENGTH IN. / MM
S7AP	1/2" / 12.7	Chevrolet®	6" / 152.4
S8AP	17/32" / 13.5 3/8" / 9.5	—	7" / 177.8
S75P	17/32" / 13.5	Oldsmobile®	9" / 228.6
S181P	1/2" / 12.7	Trucks	16-3/4" / 425.5

# BRAKE & WHEEL

## BRAKE PAD TOOLS

### CVB3080 CV BOOT CLAMP PLIERS EAR-TYPE

- For all ear-type clamps, including late model GM® front wheel outboard CV joints
- May be used with 1/2" torque wrench and breaker bar to crimp late model GM® outboard CV boot clamps to specification



### CVB3050 CV BOOT CLAMP PLIERS EARLESS-TYPE

- Designed for use on earless-type clamps, including those found on late model GM® inboard CV joints





# BRAKE & WHEEL

## BRAKE PAD TOOLS



### DBPS257 DUAL PISTON BRAKE PAD SPREADER

- Compresses dual brake pistons simultaneously
- Makes dual piston pad replacement a simple job



### BPS243 SPEEDY BRAKE PAD SPREADER

- Fast acting plunger compresses disc brake pistons in seconds
- Makes brake pad replacement an easy job



### BPS70915 4-IN-1 BRAKE PAD SPREADER

- For both fixed and floating calipers
- Fixed calipers: Twin and quad piston
- Floating calipers: Single and twin piston
- Ensures parallel piston retraction on dual and quad piston calipers
- Single lever mechanism used to apply and release force for ease of operation and faster service



### BCS700 7 PIECE DISC BRAKE CALIPER SET

- Ideal for most brake applications
- S2 Industrial Strength Bits

#### INCLUDES:

- Hex Sizes 1/4", 5/16", 3/8", 8mm Plus T40, T45, and T50
- Blow-moulded case



### BCTBT BRAKE CALIPER TURN-IN TOOL

- Designed to rotate brake pistons back into the caliper on vehicles with self-adjusting parking brakes
- Replaces kits that contain up to 20 parts by having universally adjustable 2- and 3-pin configuration
- Fits on a standard 1/4" ratchet or breaker bar and works on both right- and left-hand pistons
- Works on most domestic and import vehicles that have self-adjusting parking brakes



### 2790470 4-IN-1 BRAKE CALIPER PRESS

- Works on single, dual and quad calipers
- Centrally distributes force to prevent misalignment of pistons
- 360° Ratchet swing allows access at any angle
- Extended reversing lever allows for easy change from spreading to retracting



### PB10500 PARKING BRAKE CABLE COUPLER PLIERS

- Used on light/medium-duty trucks, SUV's & vans with drum or disc brakes, usually rear wheel drive
- This set of angled pliers is heat treated and 14" length to safely separate the mid-cable coupler from the cable end

# BRAKE & WHEEL

## BRAKE PAD TOOLS

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### DBC5000 UNIVERSAL CALIPER TURN AND PUSH-BACK TOOL

- Compresses any size brake caliper, from motorcycles, standard size cars, trucks and SUVs, and even 18 wheelers
- A 3/8 ratchet can be inserted on the end of the tool for much easier use
- Can also perform front brake jobs by flipping the head around
- Eliminates need for sets with high piece counts



### BHS2 2 PIECE ORANGE CALIPER HANGER SET

- Holds brake calipers out of your way during brake, bearing, suspension, or axle work
- Reduces possible brake hose damage

### 7PBWS 7-PC. BRAKE WRENCH SET

- Ideal for bleeding brake and hydraulic clutch systems without removing the wheels
- For universal bleeder nipples
- 3' silicon hose with check valve for one-person brake bleeding

#### INCLUDES:

- 7, 8, 9, 10, 11, 12mm, and 3/8"



# BRAKE & WHEEL

## BRAKE BLEEDERS



### BB2000 BRAKE BLEEDER / EVAC

- Variable thumb throttle holds desired flow rate
- Swivel air inlet for flexibility of movement
- Auto shutoff valve prevents overfilling
- Bleeds up to two quarts per minute

#### INCLUDES:

- Fluid Evacuation Wand for Draining Fluid Reservoirs, Adapters
- Brake Fluid Refill Kit
- Hook for Hanging Bleeder



### MV7205A MV7200 BRAKE BLEEDER KIT

### PBT70852 800ML VACUUM BRAKE BLEEDER KIT

- Uses compressed air to generate deep vacuum to bleed old fluid and air from hydraulic brake systems
- Reduces repair times increasing productivity and profit
- Built-in safety valves to prevent accidental fluid spray and spillage
- Internal shut off valve closes when not in use to prevent fluid spills when stored
- Clear drain hose provides visible inspection of old fluid during bleeding
- Vacuum: 23 InHg at 100 psi
- Fitting: 1/4 BSP (not included)





# BRAKE & WHEEL

## BRAKE BLEEDERS



### BB2010RK CLAMP-ON AUTO REFILL KIT

- Large 40 oz. (1.2L) capacity reservoir holds enough fluid for multiple brake jobs
- Adapters for standard 12 oz. (355 ml) and 32 oz. (946 ml) brake fluid bottles
- Large stable base clamps securely to the master cylinder
- Universal design fits virtually all types of master cylinders
- Automatically maintains the level of new brake fluid in the master cylinder while vacuum bleeding brake and hydraulic clutch systems



### BHC96420 2 PACK BRAKE HOSE CLAMP

- Chrome-plated steel construction
- Clamps off hoses without damage

### PBT70895 AUTOFILL AUTOMATIC BRAKE REFILLER

- Automatically fills brake fluid reservoir during bleeding
- Easy to operate retaining clip provides positive clamping to master cylinder reservoir
- No more running reservoir empty
- Saves time and money
- Height adjustment to ensure correct 'Max' level is maintained
- On/off tap
- Eliminates spills onto paintwork
- Positive container venting to maintain constant fluid flow
- Manufactured from non-corrosive materials
- 600ml (20.3 Fl oz.) container



# DIAGNOSTICS

## CIRCUIT AND FUSE TESTERS

### EM121 AC/DC LOW CURRENT AMP PROBE

- Measures current from 5 mA to 30A
- No need to open the circuit, no need for electric contact
- For AC and DC current
- Can be used with all DMM including AC/DC mV function
- Measures the current leak on vehicle
- For all diagnostic specialist



### EM111 AC/DC LARGE RANGE CURRENT AMP PROBE

- Measures current from 20A to 1500A
- No need to open the circuit, no need for electric contact
- For AC and DC current
- Can be used with all DMMs
- For automotive and industrial maintenance
- Able to check engine cranking current or charging current on light vehicle and truck



# DIAGNOSTICS

## CIRCUIT AND FUSE TESTERS

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### EM720C SMART DIGITAL CLAMP METER

- Smart automatic detection: No need to select AC or DC volts or resistance. Tester selects the right setting automatically
- Large amp range capability: TRMS AC and DC up to 600A
- Cat IV 600V



### ET3051D NOID LIGHT TEST KIT

- Detects whether the EFI system or idle air control are possible faults on no-start vehicles
- Once you disconnect the fuel injectors, plug in a noid light, and crank the engine, a flashing light indicates normal pulsing voltage
- Applications: GM® PFI, Ford® TBI, Geo® TBI, Bosch® PFI, GM® TBI, GM® SCPI, and now new applications of Bosch® 2 and Multec® with red and green LEDs

- INCLUDES:**
- Harness extension
  - Blow-moulded case

PRODUCT #	DESCRIPTION	SET
ET3051D	Noid Light Test Kit	
ET3055D-3	Geo® TBI Noid Light	•
ET3055D-4	GM® TBI Noid Light	•
ET3055D-5	SM SCPI	•
ET3055D-6	GM® Multitech 2	•
ET3055D-7	Bosch® PFI Noid Light	•
ET3055D-8	Bosch® 2 Noid Light	•
ET3055D-9	GM® PFI	•
ET3055D-10	Ford® TBI Noid Light	•

### EM112-1 DIGITAL MULTIMETER PROBE SET

- Check electric line, immediately find faulty connections
- DC measure up to 49V for all the automotive measures
- Line test—Detects faulty connections in electric circuits
- PWM / MLI signal detector automatically indicates when measuring a square signal used to command idle actuator, turbo wastage, EGR, and Canister valve
- Measure resistance up to 40 MΩ when testing ignition coil, most of sensors
- Continuity signal alarm when testing lamps, fuse, connector, and switches







### ET348X INTEGRATED TEST LIGHT / VOLTMETER

- Interchangeable probe circuit tester with an easy-to-read back lit LCD that displays voltage reading (3-48V range)
- Equipped with a wide assortment of probes, slip-on adapters, and clips, this tool makes it easy to access even the hardest-to-reach areas of today's vehicles

#### INCLUDES:

- 1 x 12' High Visibility Retracting Ground Lead
- 2 x Interchangeable Probes
- 1 x Handle with LCD Voltage Display Unit
- 1 x Blow-Moulded Case (Not Shown)



### ET64970 PARASITIC DRAW TESTER

Replaceable in-line fuses protect both the meter and tester in the event a high current source on the vehicle is left on.

The multimeter is bypassed with the switch during connection in case of a power surge. The tester and meter can remain connected until other computer systems shut down, isolating the drain. As a convenience, stacking banana connectors are used on the tester. This allows voltage to be measured on various locations on the vehicle during the drain test, using standard test leads.



### ET111X 6/12V CIRCUIT TESTER

- Circuit tester for 6V and 12V systems
- Heavy-duty coil cord extends to 12'
- Clear handle with stainless steel probe
- Permanently attached wire and spring strain relief in specially hardened moulded
- Screw-on end cap for easy bulb replacement
- 18-Gauge clip with insulating boot



### ET112X 6/12/24V CIRCUIT TESTER

- Two-colour LED circuit tester for 6/12/24V systems
- Heavy-duty coil extends to 12'
- Clear moulded handle with stainless steel probe
- Circuit board comes with two LEDs: one red LED to verify the tool is hooked up correctly and the other that lights either red or green to indicate a voltage or ground connection
- LED circuit board and lead set are field replaceable



### ET28830 DIGITAL CIRCUIT TESTER

- Heavy-duty circuit tester with digital LCD display to accurately show DC voltage
- Two LEDs provide 360° visibility of polarity: red light indicates positive polarity, green indicates negative polarity
- 12' coiled cord
- Heavy-duty alligator clamp for secure connections
- Probe is insulated to reduce the possibility of short-circuit with other components
- Computer safe
- Will not damage sensitive electronic components
- Operating range 3-49 volts DC to work on most vehicle electrical systems



### ET115X 12/24V HOOK TIP CIRCUIT TESTER

- Clear moulded handle
- Requires just one hand to test circuits in hard-to-reach areas
- Has 16-gauge, 44" ground wire with 50 Amp clamp
- Use for circuits, connections, fuses, and 2-cycle engine timing



### ET113X 6/12V SUPER SLIM CIRCUIT TESTER

- Small, ergonomic design
- High intensity bulb
- Needle-sharp, stainless steel threaded probe
- Threaded probe enables use of other screw-on type accessories
- 15' High visibility cord lead



### SS55HDA 12V HEAVY-DUTY REMOTE STARTER SWITCH

- Allows technician to remotely engage starter while under the vehicle or looking over engine bay
- Red light glows when the starter switch is connected to a hot circuit
- 5' (1.5m) Leads
- Safety shield around leads to prevent electric shock to user



### ET76562 COIL-ON-PLUG (COP) QUICK PROBE VS

- Easily and quickly determine if a COP is producing a proper spark for the plug
- Eliminates the need for back-probing coil wires and disassembly to test at the coil connector or spark plug
- Variable sensitivity (VS) for greater diagnostic accuracy and expanded application coverage



### ST380 SPARK TESTER

- Tests spark plugs, spark plug wires, and coils without puncturing the wire
- With engine running, place the grooved end of the tool over the plug wire
- The bulb will flash to indicate spark



### ST400 INLINE SPARK TESTER

- Visually check the ignition system
- Connect the tool between the spark plug and the plug wire
- Double-ended to offer a straight boot and a 90° boot on one tool
- With the engine running, the tool flashes a mirror image of ignition spark



### ET72 AMP HOUND 2

- Measure automotive amperage instantly without removing the fuses
- Audible tone lets you know when you have connection with a fuse and if there is current present in the circuit
- Snapshot Mode and Tracking Mode allow component testing and parasitic drain location
- Special fuse adapters lock on to fuse and provide hands-free control



### FIP76462 UNIVERSAL EFI QUICK PROBE

- Quickly determine if a fuel injector is firing by detecting a mechanical vibration, such as a fuel injector's pintle movement
- Works on gas and diesel engines
- No hunting for injector wires to test at the connector or injector removal required
- The probe is specifically designed to detect the vibrations emitted when the injector fires



### MSC28 AUTO MEMORY SAVER

- Prevents the loss of electronic memory when disconnecting the vehicle's battery
- High visibility coiled cord stretches to 8'
- Easy storage in tool box
- OBD II connection uses positive and ground pins only, will not interfere with fault codes
- Coiled cord prevents tangles



# DIAGNOSTICS

## TEST LEADS AND ACCESSORIES

### ET95902

#### CUSTOM AUTO TEST LEAD KIT

- An assortment of the most common leads, probes, and clips

#### INCLUDES:

- 1 x 20-Amp Insulated 48" Silicone 4mm Lead Assembly (Red)
- 1 x 20-Amp Insulated 48" Silicone 4mm Lead Assembly (Black)
- 1 x Short Steel Tipped Probe (Red)
- 1 x Short Steel Tipped Probe (Black)
- 1 x Cable Piercer (Black)



### ET95924

#### INSULATION PIERCING TEST LEAD / PLUG

- Cords stretch to 48" long
- Nickel-plated brass body, nickel-plated phosphor bronze springs, plastic handles, and solderless assembly
- Nickel-silver hook contact is spring-loaded for strong clamp-on action



### ET95959

#### HI-VISIBILITY COIL CORD LEAD

- Coiled cords stretch to over 60" long
- Insulated alligator clips on both ends



### ET95961

#### SUPER-DUTY TEST LEADS

- Cords stretch to 48" long
- Copper-plated test clips with heavy-duty insulated boots



### ET96471

#### 48" SILICONE TEST LEADS

- 3.8mm outside diameter leads are rated to maximum 1,000V/10 Amp

#### ET96471-01

#### 48" SILICONE TEST LEAD - RED

#### ET96471-02

#### 48" SILICONE TEST LEAD - BLACK



# DIAGNOSTICS

## TEST LEADS AND ACCESSORIES

### ET96470

#### 2 PIECE INSULATED CROCODILE CLIP SET

- Fully insulated jaws
- Maximum voltage/amperage: 1,000V/32 Amp
- Wide opening jaws
- Connection type is 0.16" (4mm) female banana plug

#### INCLUDES:

- 1 x Red crocodile clip
- 1 x Black crocodile clip



#### ET96470-01

#### INSULATED CROCODILE CLIP - RED

#### ET96470-02

#### INSULATED CROCODILE CLIP - BLACK

### ET96466

#### RIGHT ANGLE BACK PROBES

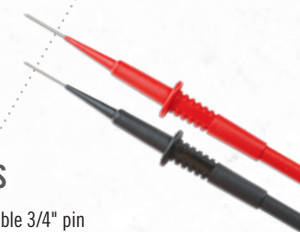
- Unique right angle back probe design enables connectivity in confined areas
- High-flex silicone wire for superior heat and chemical resistance
- Modular design is compatible with any industry standard
- 4mm shrouded banana plug test lead



### ET96469

#### BACK PROBES

- Flexible and formable 3/4" pin provides an easy connection past weather pack seals to connector conductors
- Tested to 60V DC
- Connection type is 0.16" (4mm) female banana plug



### ET96473

#### AUTO BACK PROBING CONNECT KIT

- Compliments any standard multimeter by adding insulation-piercing and 90° back probe leads
- Piercers are 3-1/8" in length
- Short back probe wires are 11-1/2" long
- Long test leads are 52" long

#### INCLUDES:

- 2 x Insulation-Piercing Test Lead Clips
- 2 x Right Angle Back Probe Test Lead Clips
- 2 x Silicone Test Leads



### ET96468

#### OEM MODULAR TEST PROBE SET

- Sharp steel points
- Maximum voltage/amperage: 1,000V/10 Amp
- Connection type is 0.16" (4mm) female banana plug

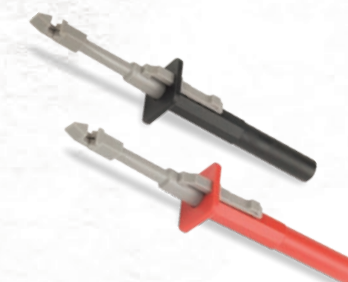


### ET95916

#### CABLE PIERCERS

#### INCLUDES:

- Cable Piercer (Red)
- Cable Piercer (Black)





### ET96467 MINI CABLE PIERCERS

- Quick and reliable access
- For cables  $\phi$ 1.0 - 2.5mm
- Standard 4mm socket to rear
- Recommended for safe voltage piercing only (600V maximum)

#### INCLUDES:

- Mini Cable Piercer (Red)
- Mini Cable Piercer (Blue)
- Mini Cable Piercer (Green)
- Mini Cable Piercer (Yellow)

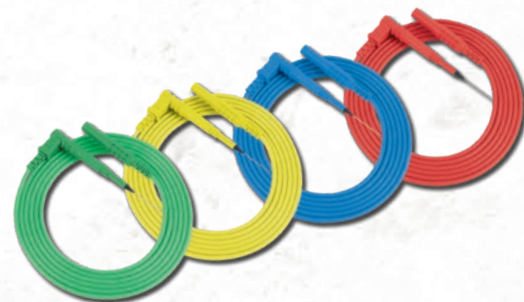


### ET95923 EASY ACCESS BACK PROBES

- Perfect for connecting to fuel injectors, MAP, and TPS sensors
- Impervious to extreme temperatures and automotive solvents

#### INCLUDES:

- 2 x 1/32" Back Probe Pins (Yellow)
- 2 x 1/32" Back Probe Pins (Green)
- 2 x 1/32" Back Probe Pins (Red)
- 2 x 1/32" Back Probe Pins (Blue)



### ET95904 EASY ACCESS 76" BACK PROBE KIT FOR SCOPE

- Back probe pins 0.028" / 7mm OD
- Extra-long, 76" double-insulated silicone test leads (rated 1000V CAT III, 20 Amp)

#### INCLUDES:

- Extra Long Test Lead (Green)
- Extra Long Test Lead (Yellow)
- Extra Long Test Lead (Blue)
- Extra Long Test Lead (Red)
- Back Probe Pins (Yellow)
- Back Probe Pins (Green)
- 1/32" Back Probe Pins (Blue)
- 1/32" Back Probe Pins (Red)

### ET96467-01 MINI CABLE PIERCER PROBE- RED

### ET96467-02 MINI CABLE PIERCER PROBE - YELLOW



### RTL1176A 7 PIECE 15' RETRACTABLE TEST LEAD SET WITH BANANA PLUGS

- Used for testing electrical circuits
- Retractable leads extend and lock at a desired length
- Rewind test lead into its own protective case when not in use
- Features insulated alligator clips



### ET95913 EASY ACCESS 76" BACK PROBE KIT

- Back probe pins 0.028" / 7mm OD
- Extra-long, 76" double-insulated silicone test leads (rated 1000V CAT III, 20 Amp)

#### INCLUDES:

- 1 x Extra Long Test Lead (Green)
- 1 x Extra Long Test Lead (Yellow)
- 2 x Back Probe Pins (Yellow)
- 2 x Back Probe Pins (Green)



### ET96041 UNIVERSAL MAGNETIC GROUND LUG

- Stop searching for a good place to clip your test equipment ground leads
- Attaches to any metal surface

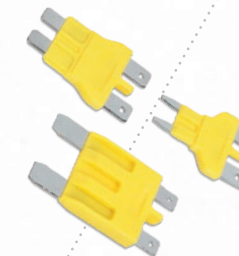


### ET95911 SIGNAL BACK PROBE PIN

- Insulating collar to help eliminate grounding

#### INCLUDES:

- 4 x Back Probe Pins (Yellow)



### ET6100 FUSE BLOCK CONNECTORS

- Fits all Maxi, ATO, and mini size automotive blade style fuse block connectors
- Plated contacts for extra conductivity and durability
- Connector tabs fit 1/4" female quick connects or standard alligator clips



### FS21250 FINGER SAVER WIRE PIERCING GUIDE

- Quickly, easily, and safely guides the pick point of any circuit tester into centre of all primary automotive electrical wire
- Holds circuit tester in position allowing work with both hands free
- Impervious to gasoline, oil, thinners, and other shop chemicals
- Stores on ground wire of circuit tester



### PPRLS01Z POWER PROBE® LEAD SET

- High current 10-gauge multi-strand leads and gold-plated electrical connectors
- The super flexible leads come in lengths of 1', 3', and 6' and are stackable, giving the technician greater flexibility
- Large and small probes can pierce and centre wires from 28- to 8-gauge





**ST115**  
**SUPER TORCH SOLDERING TOOL**

- Waterproof piezo automatic ignition
- Uses standard butane fuel – capacity for up to two hours of use
- Long life catalytic tips
- Power Range: 30W - 100W

**APPLICATIONS:**

- Automotive, truck and aviation repair
- Install heat shrink tubing
- Solder circuit boards
- Loosen rusted nuts and bolts
- Can also be used as a torch with a flame of 2,400°F



**L55000**  
**MAGNETIC SOLDERING CLAMP**

- Offers an extra pair of hands when soldering
- Alligator clamps firmly hold wire and small parts when soldering
- Flexible design allows different ways to attach and hold wire
- Clips and base are magnetic and can be attached to any ferrous surface
- Magnetic arms are detachable and can be moved and used without the base
- Base is also hex shaped and can fit in a vice when needed

**ST150B**  
**9 PIECE SUPER TORCH SOLDERING KIT**

- Patented LEC removable/refillable fuel cell
- LEC filter system eliminates clogging
- Improved nozzle assembly for sure ignition
- Ready-to-use in fifteen seconds
- Integrated hands-free stand
- Uses standard butane fuel
- Can double as a torch with a 2,400°F flame
- Power Range: 30W - 125W

**INCLUDES**

- Chisel tip
- Heat shield
- Sponge
- Solder coil



**PPSK**  
**POWER PROBE SOLDERING IRON KIT**

- Max Flame Temperature: 930 ° F
- Adjustable Flame Length: .5" - 1.25"
- Butane Fuel Type with electronic igniter
- Organized Durable Case
- Accessories Tips and Attachments Included

**ST230**  
**PRO SUPER TORCH**

- 2,500°F Adjustable flame
- Automatic piezo ignition
- Precise flame adjustment
- Dual fuel and air controls
- Up to four hours use on each filling
- Drop-resistant housing
- Larger, easy-to-use controls
- Use at any angle with hands-free base
- Uses standard butane fuel



**RTJ103A**  
**MASTER RELAY AND FUSED CIRCUIT TEST KIT**

- Jumpers have tabs for clamping and flat pads to place test leads on
- No need to pierce wires or connect multiple jumper wires
- Easily and securely connect relay test jumpers to a multimeter
- Terminal Leads with Switch/Fuse/Power provides the technician several ways to check the fuses that are in the panel
- Five wire set that fits these fuses: Female-Pal, JK, LJK, Male-L-mini, Mini, ATO, and Maxi
- One set of wires has no ends, allowing the technician to crimp any style they need
- Different sized ends on the wires give flexibility to plug directly in the relay base or to fit other relay sizes not covered by the jumpers
- Remove any fuse and plug in the correct wire and plug the other end into a meter and take a current reading without using a clamp-on tester
- Use the on/off switch to control a circuit
- Test before or after the switch by using the stacking banana plugs
- The power lead can apply external power to only the circuit that you are working on
- There are two 3-1/2' extensions to be used if you are controlling a circuit while the vehicle is on a hoist
- The in-line fuse holder (common ATO fuse style) protects the circuit and meter when testing
- Relay Puller Pliers for removing electrical relays on most domestic and import vehicles
- Offset handle and thin tips allow access to relays in confined areas
- Specially designed tips are angled to fit slots or the edge of the relay cover
- Allows the relay to pop free from the socket with less chance of damaging the relay cover



PRODUCT #	DESCRIPTION
LIS69250	Fused Power Switch/Leads
RPP46950	Relay Puller Pliers
LIS56820	Yellow Relay Tester
LIS56830	Red Relay Tester
LIS56840	Blue Relay Tester
LIS56850	Green Relay Tester
LIS60620	Orange Relay Tester
LIS60630	White Relay Tester
LIS60640	Purple Relay Tester
LIS60650	Gray Relay Tester
LIS69260	Switch with Banana
LIS69270	4mm Banana To Align Clamp
LIS69280	Red 4mm Banana to 1/4" FE Term
LIS69290	Green 4mm Banana to 1/4" Male
LIS69310	Yellow 4mm Banana to Male Spade
LIS69320	Blue 4mm Banana to Male Spade
LIS69330	Black 4mm Banana to Wire End
LIS69340	Banana Male With Inline Fuse
LIS69350	Female to 4mm Male Extension
LIS69210	Orange Pin Tip Banana



**ET9037**  
**RELAY BYPASS SET II**

- Provides direct control over relay circuit
- Verify load
- Isolate electrical components
- Plugs in place of relay
- Provides manual control of circuit
- Helps identify bad relays, control switches, open circuits, electrical equipment, and power feed
- Operating range: 20-amp continuous, 30-amp surge (12V)



**ET9036**  
**3 PIECE RELAY BYPASS KIT**

- Provides direct control over a relay circuit to operate components within the circuit with the push of a switch
- Easy-to-use, the relay bypass switches are not pole sensitive making them a plug-and-play solution
- Commonly used on circuits for fuel pumps and fan motors, the relay bypass switch allows the technician to isolate electrical components to troubleshoot circuit failure
- Plugs in place of relay
- Provides manual control of circuit
- Helps identify bad relays, control switches, open circuits, electrical equipment, and power feed
- Operating range: 20 Amp continuous, 30 Amp surge (12V)

**APPLICATIONS:**

- Small spade relay: 2000 and newer model USA, Korean, and Japanese applications
- Medium spade relay: common relay for applications spanning most makes and models from the late 1970s through 2009
- Large spade relay: late model USA and Japanese vehicles



# DIAGNOSTICS

## RELAY SERVICE KITS



### ET9038A 6 PIECE MASTER RELAY BYPASS SWITCH SET WITH AMP LOOP

- The Relay Bypass Switch with Amp Loop energizes fuel pumps and any 12V relay by powering a DC motor for testing. It also makes DC motor actuation and current monitoring easy. By attaching an Amp Clamp or Lab Scope, you can monitor the current or amperage readings. It allows a technician to judge the health of the DC electric motor to identify if a motor is drawing more current than specified, or if the current load is inconsistent during operation.
- Control relay circuit independent of "key-on/key-off" systems
- Run all automotive, 12V DC motors with a push of a switch
- Simplifies fuel injection testing
- Use in conjunction with clamp-on Amp Probes and Lab Scopes
- Operating range: Up to 20 amp continuous, 30 amp surge (12V)
- Covers most makes and models



### ET8005 FUSE SAVER

- Chase down short circuits without replacing fuses
- Three resetting colour matching breaker handles: 10, 15, and 20 amps
- Allows you to move around the vehicle shake-testing wires while looking for shorts
- Finds short circuits fast
- No more overheating fuse boxes



### ET8017 FUSE-SAVER MASTER KIT

- Provides a fast and safe solution to the old methods of "smoke testing" a short
- Simply attach the desired breaker handle to the 10' cable and install into the fuse box, then begin shaking wiring harnesses, disconnecting electrical equipment, and other methods to find the source of a short circuit or overload condition
- Allows the technician to move around the vehicle and shake test wires while looking for a short circuit
- Dual-type fuse box connector with 10' cord helps ease installation of radios, CD players, radar detectors, and other accessory equipment
- Chase down short circuits without replacing blown fuses

#### INCLUDES:

- 5 x Specific Fuse Type Adapters
- 1 x Blow-Moulded Storage Case

# DIAGNOSTICS

## TRAILER CONNECTOR MAINTENANCE

11



### ET8025 4 PIECE TERMINAL AND TRAILER PLUG CLEANER SET

- For removing corrosion and debris from trailer terminals and common automotive style wire connectors
- Great for use on trailer tail light assemblies
- Cleans 4-, 5-, 6-, and 7-spade pin trailer sockets (male and female)
- Extend life of trailer sockets and terminals
- Ensure better electrical connections
- Resize terminals
- Auto/industrial/marine/fleet applications
- Available individually



### ET8040A FLAT TERMINAL CLEANERS PIVOT

- Highly-durable and abrasive coatings that clean connections to reduce diagnostic guesswork and increase overall harness life
- Works for both male and female connectors on flat (spade) pin-type terminals

#### INCLUDES:

- 3 x Large, Medium, and Small Cleaners for Most Connectors

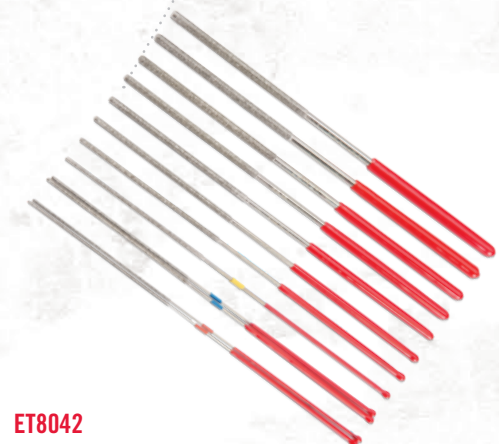


### ET8024 7-ROUND PIN TERMINAL CLEANERS (TRUCK / TRAILER)

- Precision machined cleaning tool for use with 7-round pin commercial trailer connectors
- Doubles as a pin/socket wear gauge indicating if the connection needs to be tightened or replaced
- For male and female connections
- For tail and side marker light assemblies
- Maintains continuity and prevents failure
- Quickly and precisely cuts away corrosion

#### INCLUDES:

- Male
- Female 7-Round Pin Terminal Cleaner



### ET8042 12 PIECE FEM BULLET CONNECT CLEANERS

- Complete set of tools to clean round pin type electrical terminals commonly used in Cannon, Deutsch, bullet type and general electrical connections
- Includes twelve individual pieces ranging in sizes from .030" - .120"
- Diamond abrasive coating for precise cleaning, sizing and durability.
- 10 sizes with duplicate cleaners in the 0.030" and 0.040" range. Each file is marked or colour-coded for size.





**TT95970**  
**12 PIECE MINI TERMINAL TOOL SET EXTENDED SHAFT**

- Tri-lobal ergonomic handle design
- TPE (Thermal Plastic Elastomer) over-mould ensures firm grip
- Resistant to acid, fluids, and solvents
- Extended length shafts for improved access in restricted spaces
- Chrome-Vanadium steel shaft with high-polished chrome plated finish
- Application chart included inside storage pouch

**INCLUDES:**

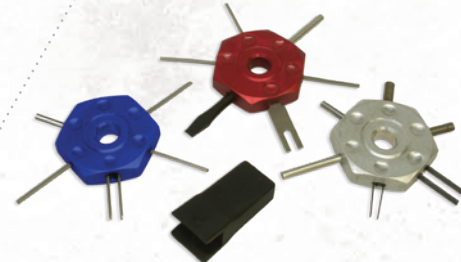
- 12 x Tools for the Disassembly of Terminal Blocks and Harness Connectors for Asian and European Vehicles
- 1 x Application Chart Inside Storage Pouch



**TT96030**  
**TERMINAL TOOL KIT**

- Fits most GM® products computer connectors and terminals
- Individually handled for easy access into tight places
- Colour-coded for easy identification

PRODUCT #	DESCRIPTION	SIZE MM
TT96030-01	Spring-Loaded Tube Terminal Tool	3.3 x 28.0
TT96030-02	Square Blade Terminal Tool	1.4 x 19.0
TT96030-03	Flat Blade Terminal Tool	1.5 x 24.8
TT96030-05	Fork Blade Terminal Tool	8.0 x 24.0
TT96030-06	3/16" x 1" Flat Blade Screwdriver	-
TT96030-07	Tube Terminal Tool	3.3 x 28.0
TT96030-08	Tube Terminal Tool	4.3 x 13.0
TT96030-09	Tube Terminal Tool	3.8 x 13.0
TT96030-10	Tube Terminal Tool	3.0 x 13.0
TT96030-11	Flat Twin Blade Terminal Tool	3
TT96030-12	Flat Twin Blade Terminal Tool	1.6



**TT7750**  
**WIRE TERMINAL TOOL KIT**

- Set of three terminal tools and handle for removing wires from terminals without damage
- Terminal tools work on conventional, 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 and provide extra leverage
- All terminal tools are available individually skin-packed

**TT95886**  
**7 PIECE DEUTSCH TERMINAL TOOL SET**

- Provides the ability to remove terminals from connectors without damaging or destroying the connector
- Deutsch connectors are used on numerous vehicle types including: automotive, motorcycles, HD trucks, construction equipment, agricultural equipment, and some outboard engines
- Provides coverage for wire gauges between 4-20

PRODUCT #	DESCRIPTION
TT95886M-01	04 Gauge Wire Terminal Tools #F
TT95886M-02	08 Gauge Wire Terminal Tool #E
TT95886M-03	12 Gauge Wire Terminal Tools #D
TT95886M-04	14 Gauge Wire Terminal Tool #C
TT95886M-05	16 Gauge Wire Terminal Tool #B
TT95886M-06	20 Gauge Wire Terminal Tool #A
TT95886M-07	Removal Tool #G



**TT95839**  
**23 PIECE UNIVERSAL TERMINAL TOOL SET**

- Contains a wide assortment of terminal tools that will cover a large range of vehicle applications and has the ability to service many makes and models of vehicles without the added expense of purchasing additional kits
- Easily removes terminals from electrical connectors
- Eliminates damage to wires or terminal blocks
- Handles designed for extra grip and comfort
- Handles individually marked on the heads for easy identification on application chart



PRODUCT #	DESCRIPTION	SIZE
TT95839-1	Tube	5.00mm x 20.5mm
TT95839-10	Flat Blade	1.15mm x 18.0mm
TT95929-11	Flat Twin Blade	1.60mm x 24mm
TT95929-12	Fit Twin Blade with Angle Tip	1.65mm x 23mm
TT95929-13	Flat Blade	3.0mm x 18.5mm
TT95929-14	Flat Blade with Notch	1mm x 18mm
TT95929-15	Flat Blade, U-Notch	1mm x 24mm
TT95929-16	Flat Blade	1.80mm x 18.0mm
TT95929-17	Flat Twin Blade	1.6mm x 26mm
TT95929-18	Triple Flat Blade	1mm x 9mm
TT95929-19	Pin Blade	0.90mm x 19.0mm
TT95929-20	Flat Twin Blade	1.60mm x 20mm
TT95929-21	Flat Twin Blade	0.9mm x 16mm
TT95929-22	Pick Blade	1.00mm x 19.0mm
TT95929-23	Flat Twin Blade	0.9mm x 14mm
TT95839-3	Tube	3.25mm x 20.0mm
TT95839-4	Flat Twin Blade	1.6mm x 15mm
TT95839-5	Flat Twin Blade	1.55mm x 20mm
TT95839-6	Flat Twin Blade	1.55mm x 17mm
TT95839-7	Fit Twin Blade with Angle Tips	1.6mm x 20mm
TT95839-8	Flat Blade	1.80mm x 18.0mm
TT95839-9	Square Blade	1.00mm x 18.0mm



EV9504  
LEAK ATTACK™ PRO DIAGNOSTIC  
SMOKE MACHINE

- Mac Tools® Exclusive Design
- Easy Intake Included
- Two year warranty
- Halogen inspection light
- Removable smoke hose
- Positive/negative pressure gauge
- Includes full accessory kit
- Ideal for finding vacuum leaks, EVAP (fuel vapour recovery), exhaust leaks, seals, gaskets, brake vacuum hoses, cooling systems, oil, wind, and water leaks, diaphragms, central locking and much more



95-0082  
EASY INTAKE™ EXHAUST BLADDER

- Easy INTAKE™ is an inflatable block off bladder with a pressurized vapour pass-through that allows technicians to test an entire intake or exhaust system quickly and easily
- Easy INTAKE™ can be used with any brand of smoke machine or diagnostic leak detector to block-off the system with its inflatable bladder and pressurize the system with vapour through the pass-through to accurately locate leaks and find additional repair jobs
- Easy INTAKE™ block off bladder conforms to any shape intake / exhaust: square, round, oval, rectangular and even severely angled and hard to reach intake / exhaust systems, while allowing vapour to pass through for fast diagnostics
- Compatible with any smoke machine, Easy INTAKE™ fits nearly all automobiles and light duty trucks to quickly leak test the integrity of the entire induction system with one simple procedure



- TIN SNIPS
- Treated for strength, toughness, and durability
  - Cuts up to 18-gauge cold rolled sheet steel

PRODUCT #	CUT	CUT [MM]	HANDLE COLOUR	LENGTH	LENGTH [MM]	TYPE
TS1	1-3/8"	34.9	Green	10-1/2"	266.7	Right
TS2	1-3/8"	34.9	Red	10-1/2"	266.7	Left
TS3	1-1/2"	38.1	Yellow	10-1/2"	266.7	Straight

PAINT & BODY

SPRAYING

- SG1100-10  
MINI HVLP GRAVITY  
SPRAY GUN
- Great for small area repairs and detail work
  - Well-balanced and lightweight
  - Includes a 150cc cup and aluminium lid
  - 1.0mm fluid tip



- WATERBORNE  
COMPLIANT HVLP  
FULL-SIZE GRAVITY  
SPRAY GUNS
- Well-balanced and lightweight
  - Comes complete with 600cc aluminium cup with lid
  - Air Inlet - 1/4 NPS male
  - Fluid Inlet - 3/8"
  - Inlet air pressure - 29 psi

PRODUCT #	AIR CONSUMPTION [CFM]	APPLICATIONS	FLUID TIP [MM]
SG1300-13	6.8	Base Coat - Clear Coat High Solids	1.3
SG1300-14	6.9	Clear Coat - Medium Solids	1.4
SG1300-15	6.1	Single Stage - High Solids Primer	1.5
SG1300-18	6.1	Acrylic Enamel - High Build Primer	1.8

- SGC601  
600CC PAINT CUP
- Fits all SG1300 Series
- SGH1  
MAGNETIC SPRAY GUN HOOK
- Large heavy-duty magnet holds your paint gun without having to drill holes in your paint booth





ACU1  
AIR CONTROL UNIT  
WITH REGULATOR

- Removes water, oil, and other contaminants and regulates air pressure
- 160 PSI inverted air gauge
- 120 CFM capacity air filter
- 50 CFM chrome-plated regulator
- Air Inlet: 1/2" NPT
- Air Outlet: 1/4" NPT



SGCK-22  
22 PIECE GUN CLEANING KIT

- Cleans virtually any spray gun

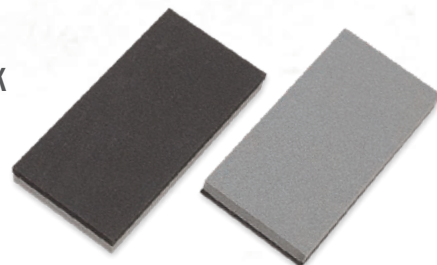
INCLUDES:

- 4 x Twisted Brushes
- 1 x Nylon Exterior Brush
- 1 x 6 Piece Stainless Needle Set with Handle
- 1 x 5 Piece Precision Mini Brush Set
- 1 x 3 Piece Lube Applicator Set with Handle
- 1 x 2 Piece Round Bar and Gun Lube



SB2D  
DOUBLE DENSITY SANDING BLOCK

- Gray side is soft and pliable for sanding irregular surfaces; black side is stiff for faster sanding on curved surfaces
- Size: 2-1/2" x 5" x 5/8"



BFT1316  
PAINT DE-NIBBER FILE

- The ideal tool for drips, runs, and errors in your otherwise perfect paint job
- Hardened file with two faces in an ergonomically designed rubber grip
- Handle securely holds the mini-file in proper position
- Easily flipped from course to fine
- Course cut side for fast cutting
- Fine cut side for finishing

BT753B  
ADJUSTABLE FILE HOLDER

- Top quality file holder for 14" body files
- Turn buckle design permits flexing
- Rotating handle designed for right or left hand use



BTS7F  
7 PIECE FIBREGLASS HANDLE  
AUTO BODY REPAIR TOOL SET

- Drop-forged hardened steel
- Machined and polished work surfaces
- Meets ASME/ANSI standards
- Hardened steel machined, and polished large round work surface



INCLUDES:

- BT1036DS - Light Dinging Spoon
- BT1058TD - Toe Dolly
- BT1059HD - Heel Dolly
- BT1060GPD - General Purpose Dolly
- Blow-Moulded Case



BTS4F  
4 PIECE FIBERGLASS  
HANDLED HAMMER AUTO BODY  
REPAIR TOOL SET

- Drop-forged hardened steel
- Machined and polished work surfaces
- Limited lifetime warranty
- Meets ASME/ANSI standards
- Fiberglass handles with rubber overmould

INCLUDES:

- 2 x Hammers
- 1 x Dolly
- 1 x Spoon



BTH158GPF  
GENERAL PURPOSE  
PICK HAMMER  
WITH FIBREGLASS HANDLE

- Medium-size point and reach
- Low-crown strawberry point for balance
- Drop-forged hardened steel
- Machined and polished work surfaces
- Meets ASME/ANSI standards
- Weight: 0.9 lbs.
- Face radius: 3/32"



BTH153CCS  
CROSS-CHISEL SHRINKING  
HAMMER WITH WOOD HANDLE

- Cross-grooved
- Extra wide faces are cross grooved and used for shrinkage on large surfaces
- chisel end used on sharp corners
- Hickory handle with lacquer finish, hardened steel machined, and polished large round work surface
- Weight: 0.9 lbs.



BTH162S  
WOOD SHRINKING HAMMER

- For work in close quarters
- Expertly machined serrations on the round face
- Weight: 0.8 lbs.



BTH153CC - WOOD  
BTH153CCF - FIBREGLASS  
CROSS-CHISEL HAMMERS

- Excellent for finishing
- Cross-peen used for working in sharp corners, around moulding, and for caulking
- Weight: 0.9 lbs.







### BTH155FBF FENDER BUMPING HAMMER WITH FIBREGLASS HANDLE

- For bumping where hand and dolly cannot reach
- Ample clearance for obstructions
- Also used as a caulking iron
- Weight: 2.8 lbs.



### BTH170DS - WOOD BTH170DSF - FIBREGLASS DOOR SKIN HAMMERS

- For high-crown work and finishing, without poking holes in thin sections
- Weight: 0.9 lbs.



### BT1057LTD LIGHT TOE DOLLY

- Designed for flat surfaces



### BT1058SD SHRINKING DOLLY

- Shaped like the BT1057LTD but has one face covered with raised serrations for shrinking metal stretched by dents



### BT1052SD SPOON DOLLY

- Forming and caulking tool for the deep pockets of quarter-panels, rear fenders, and lower trunk panels



### BMD200 MULTI-DOLLY STANDARD

- Smoothing round face
- Smoothing round curve
- End curve dolly
- Spoon curve dolly
- Flat face with bent curve
- Small curve wedge dolly
- Awl type dolly

### WD1250 680KG EASY ROLLER™ WHEEL DOLLY POSITIONING SYSTEM

- Provides a simple and efficient method of moving a disabled vehicle around a shop
- Position at each wheel of a vehicle weighing up to 2.72 Ton (6,000 lbs.) and use the foot pedals to activate the hydraulic lift
- One individual can easily move the car throughout the garage
- Fits tread widths up to 12" and the four heavy-duty casters support up to 680kg (1,500 lbs.) per unit
- Hydraulic lift mechanism with locking pin
- Four heavy-duty phenolic casters protect shop floors from damage
- Weight: 20kg (44 lbs.)
- Item sold as one set or individually

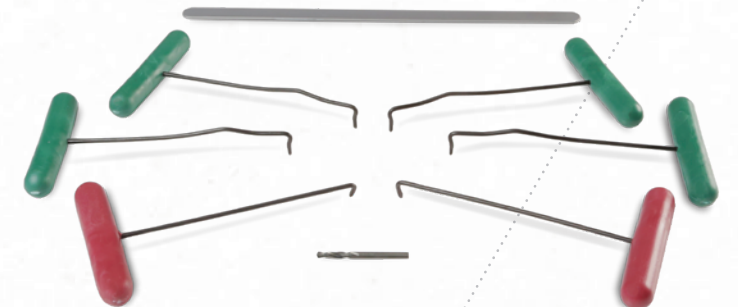


### BPR6K PULL ROD SET

- Eliminates removal of headliners and inner panels
- A must for the body mechanic

#### INCLUDES:

- 4 x Pull Rods with Formed Shanks
- 2 x Pick Rods with Straight Shanks
- 1 x Stainless Steel Straight Edge
- 1 x High-Speed 5/32" Drill Bit



### UT300XL-SET 3 PIECE XL TRIM & PANEL CLIP LIFTER SET

- Extra-long to provide more access for hard-to-reach areas
- Robust design for the more stubborn clips
- High-polish, chrome finish protects delicate surfaces as well as prevents corrosion
- Rubberised handles for grip and comfort



### UT500-SET 5 PIECE TRIM & PANEL CLIP LIFTER SET

- Easily remove clips used to fasten various automotive trim pieces and panels
- Five specifically designed tool configurations provide a wide application range
- High-polish, chrome finish protects delicate surfaces as well as prevents corrosion
- Rubberised handles for grip and comfort



### UPT100-SET 5 PIECE PLASTIC MOULDING / TRIM REMOVER

- Great tools for trim work and plastic upholstery fasteners
- Use with ease and without scratching the body panel or interior moulding



### UPT101 WIDE MOULDING / TRIM REMOVER

### UPT103 NARROW MOULDING / TRIM REMOVER

### UPT105 CLIP MOULDING / TRIM REMOVER



### MR151 WINDOW BELT MOULDING REMOVER

- Quickly removes all window belt mouldings without damage to the window or the moulding





### BTMC-1A 5 PIECE MIGHTY MIDGET PANEL CLAMP

- Allows door to be closed to check alignment before welding begins
- Actual size only 5/8" wide
- Package of five clamps

### WLT4700A WINDSHIELD LOCKING STRIP TOOL

- Unique design allows tip to swivel 90° in either direction
- Two double-ended tips to fits most applications



### WH6390 WINDOW HOLDER

- Holds door glass while working on the window regulator
- Works on all cars and trucks with a top door frame

### LC1912A HEAVY-DUTY SINGLE LIFTER CUP

- Lift heavy loads safely
- Powerful 5" suction cup
- Hand-trigger instant release



### SD6601 2 PIECE LIGHT COVER REMOVAL SET

#### INCLUDES:

- SD66011 - Removal Tool-Straight
- SD66012 - Removal Tool-Angled



### BK1200 HEAVY-DUTY 12 LBS. BODY KNOCKER SET

With its heavy-duty 12 lbs. hammer and multiple attachments, this body knocker set is ideal for a multitude of pulling applications

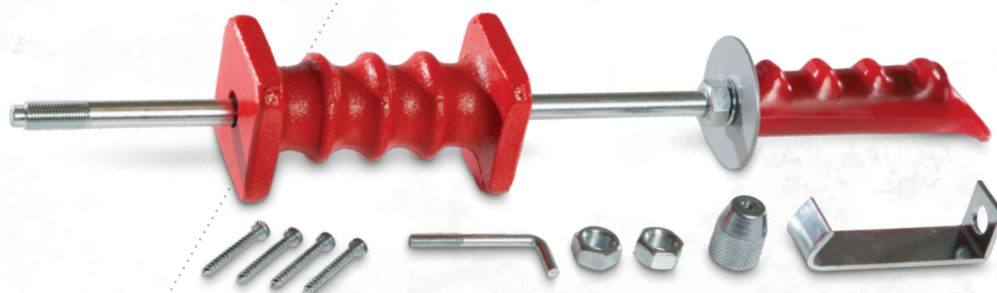


### BF085SA 5 LBS. KNOCKER SET

- Square hammer with solid steel shaft

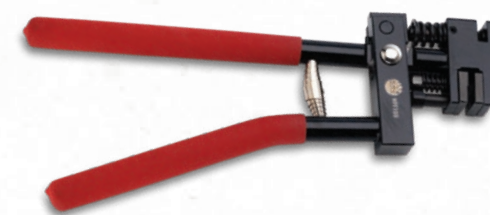
#### INCLUDES:

- Hammer and Shaft
- Nose Piece
- Puller and Screw Package
- Door Edge Tool
- Nut Package



### HPF100 FLANGER AND PUNCH TOOL (6MM)

- Swivel head
- Max sheet thickness up to 18-gauge (0.8mm)
- Crimp and punch sheet metal (aluminium, copper, or ductile material)



CRIMP WIDTH	CRIMP WIDTH (MM)	PUNCH	PUNCH (MM)
7/8"	22	15/64"	6

### LSC4870A UNIVERSAL SUPPORT CLAMP T-HANDLE

- Holds gas-charged lift supports found on hoods, tailgates, hatchbacks, and trunks
- Aluminium body and brass threads prevent damage to the lift support

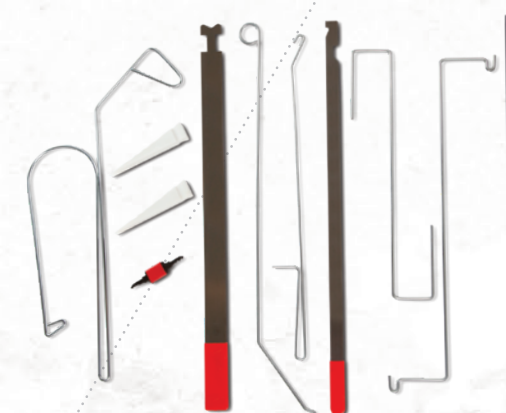


### LT450K 11 PIECE DELUXE MASTER AUTO LOCKOUT TOOL KIT

- Tool kit unlocks most domestic and foreign cars and trucks

#### INCLUDES:

- 1 x **LOC1T-40** - S-Hook
- 1 x **LOC80A** - Universal Easy Jim
- 1 x **LOC1T-95** - Slide Jim
- 1 x **LT100** - Plastic Slip Jim
- 1 x **LT101** - Trip Jim
- 1 x **LOC105** - Big Jim
- 1 x **LOC1T-106** - Gas Cap Pick-Up Tool
- 1 x **LOC1T108** - Under-Window Slide Lock
- 1 x **LOC1T114** - J-Tool
- 2 x **LT271** - Plastic Door Wedge
- 1 x Kit Bag



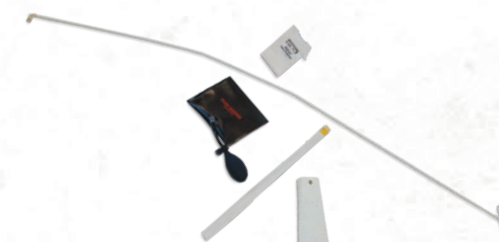
### LT329G NITE GLOW LOCK TOOL KIT

#### INCLUDES:

- **LT32922** - Easy Wedge
- **STK32915** - Big Easy Lockout Rod
- **32920** - Big Easy Non-Marring Wedge
- **STK32924** - Non-Marring Paint Protector
- **STK32930** - Big Easy Lock Knob Lifter

### LT271 PLASTIC DOOR WEDGE

- Non-marring plastic wedge for use with lockout tools



### LT329 BIG EASY LOCK TOOL

#### INCLUDES:

- Heavy-Duty One-Piece 1/4" x 56" Lockout Tool
- Sure Grip Lock Button Lifter
- Large Plastic Door Wedge



### LT335 2 PIECE EASY ACCESS AND INFLATE-A-WEDGE™ KIT

#### INCLUDES:

- 1 x Plastic Slim Jim
- 2 x Plastic Wedges
- 1 x Inflate-a-Wedge™

### LT275 INFLATE-A-WEDGE™

- Durable, inflatable wedge for use with lockout tools or paintless dent removal
- Heavy-duty construction with hand pump







**PS15-KIT**  
**PROFESSIONAL HAND PLIERS RIVET TOOL KIT**

- Robust aluminium casting and vanadium steel handle design
- Setting capacity: aluminium rivets up to 3/16" (4.8 / 5.0mm) body diameter
- Contoured handle grips for comfort
- Rivet retaining handle design for one-hand operation
- Supplied with nosepieces for 3/32", 1/8", 5/32", and 3/16" (2.4mm, 3.2mm, 4.0mm, and 4.8mm) rivets
- Supplied nosepiece wrench

- INCLUDES:**
- 2 x Nosepieces for 3/32 – 3/16" (2.4 – 4.8mm) Rivets
  - 2 x Jaws for 3/32 – 3/16" (2.4 – 4.8mm)
  - 1 x Jaw Pusher Spring for 3/32 – 3/16" (2.4 – 4.8mm)
  - 200 x Assorted Rivets
  - 60 x Back-Up Plates
  - 1 x Wrench

**PS15**  
**RIVET TOOL**

- Lightweight, professional grade PS15 tool

PRODUCT #	LENGTH	LENGTH (MM)	WEIGHT (KG)	WEIGHT (LBS.)
PS15	9-13/20"	245	0.6	1.3



**BTC27**  
**27 PIECE BODY CLIP SET**

- Perform on a wide variety of trim work and other delicate applications
- Non-marring impact resistant plastic
- Slim design for work in tight areas



**PNT110-M-KIT**  
**METRIC INSERT TOOL KIT**

- Ergonomically designed to fit your hand with contoured grips for comfort

- INCLUDES:**
- 1 x 190 Piece Variety of metric threaded inserts, ideal for use in a broad range of applications
  - 4 x Mandrels and nosepieces for sizes: M3, M4, M5, and M6



**PS45**  
**HEAVY-DUTY LEVER RIVET TOOL**

- Setting capacity 6.4mm diameter
- Telescopic levered high-capacity rivet tool
- Professional standard, heavy-duty steel construction
- Two-position telescopic levers extend to maximize leverage and pulling force
- Non-extended position makes tool more compact
- Supplied with nose-pieces for 3.2mm, 4.0mm, 4.8mm, and 6.4mm diameter rivets

PRODUCT #	LENGTH	LENGTH (MM)	WEIGHT (KG)	WEIGHT (LBS.)
PS45	26"	665	2.6	5-3/4

**S240P**  
**DZUS® FASTENER TOOL**

- Designed for DZUS® fasteners which are used on race cars to hold body panels to frame and also used on aircraft engine compartment panels

OVERALL LENGTH	OVERALL LENGTH (MM)	TIP THICKNESS	TIP WIDTH
6-1/16"	153.9	3/64"	35/64"



**UTS024A**  
**6 PIECE UPHOLSTERY AND TRIM SET**

**UTS036A**  
**2 PIECE SMALL UPHOLSTERY TOOL SET**

- **UT026A** "V" notch and **UT027A** "U" notch upholstery tools handle all styles of clips
- **UT028A** "U" notch and **UT029A** "V" notch small trim and tack tools remove trim, moulding, and emblems
- **UT031A** upholstery tucking tool for tucking head liners and seat cushions has rounded edges to protect material from damage
- **UT018A** removes hinged side door panels
- Wide blades which are less likely to damage painted and upholstered surfaces
- Ergonomic design handles with thumb stop for maximum control

PRODUCT #	DESCRIPTION	SET
UTS024A	6 Piece Upholstery and Trim Set	
UTS036A	2 Piece Small Upholstery Tool Set	
UT018A	Reversed Door Panel Tool	•
UT026A	Ergo "V" Panel Clip Tool	•
UT027A	Ergo "U" Panel Clip Tool	•
UT028A	Small Ergo "U" Panel Clip	• •
UT029A	Small Ergo "V" Panel Clip	• •
UT031A	Upholstery Tucking Tool	•

**UT1BB**  
**MAC-GRIP™ UPHOLSTERY TOOL 10"**

**UT2BB**  
**MAC-GRIP™ UPHOLSTERY TOOL 20"**

- Rubberized Mac-Grip™ handles provide maximum comfort and grip
- Properly pulls body clips from body reducing risk of damage to panels and clips



**UPHOLSTERY TOOLS**

- Removes a variety of door and body trim fasteners
- Comfort-Grip™ handle

PRODUCT #	DEPTH	OPENING WIDTH
UT3VA	9/32" "V" Notch	3/32" "V" Notch
UT4UA	1/2" "U" Notch	11/32" "U" Notch



**PK532**  
**FLAT 24" URETHANE KNIFE**

- Long reach provides cutting leverage and distance needed in today's long dash windshields
- Screws that secure the blade are flush mounted to prevent damage to dash and moulding
- Centred blade can be used from either side
- Uses utility knife blades like 11-921A



**L42480**  
**PANEL CLIP REMOVAL PLIERS**

- Designed for easy fastener removal while helping to prevent damage to fasteners and body panels
- Angled head for leverage when prying

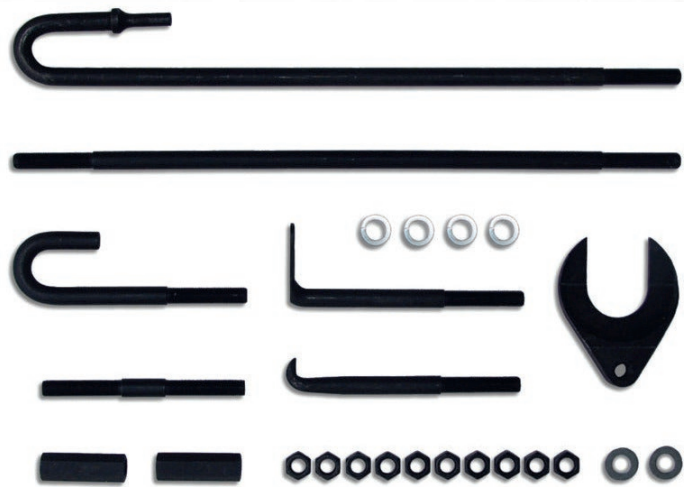


# PAINT & BODY

## AIR HAMMER TOOLS

**LT855A**  
TEXAS TWISTER AIR HAMMER  
PULLING KIT

- For use with .401 shank air hammer
- One hand operation allows user to hold component so it doesn't fall as it's removed
- 20" extension for access to recessed items
- 1/2"-20 connecting bar allows for connection to other standard pulling attachmentspockets of quarter-panels, rear fenders, and lower trunk panels



# PAINT & BODY

## WELDING AND CUTTING

**C3X**  
3/8" SPOT WELD CUTTER

- Double-end blade
- Three per pack



**C117X**  
3/8" SPOT WELD CUTTER

- Double-end blade
- 1/4" Arbor with retractable pilot



**SWC900**  
SPOT WELD CHISEL

- Separates spot welded panels
- Use to separate panels after the spot weld has been drilled out
- Panels are separated without damage
- The blade is sharpened on three sides and offset for clearance

*Note: The sharpened edges will wear with use*



# SPECIALTY TOOLS

## DRIVE TRAIN



SC475B



SC90



SC91

HEAD BOLT SOCKETS

- Designed for head bolts on VW and Audi

PRODUCT #	DESCRIPTION	SIZE	DRIVE SIZE	POINT SIZE	APPLICATION
SC475B	VW / Audi Polydrive Head Bolt Tool	10	1/2"	6	Cylinder head bolts on VW and Audi
SC90	Spline Head Bolt Socket	10	1/2"	12	10mm head bolts on VW and Audi
SC91	Spline Head Bolt Socket	12	1/2"	12	12mm head bolts on VW and Audi

**DL200P**  
4 PIECE 1/2" DRIVE  
COMBINATION DRIVELINE  
SOCKET SET - 12-PT.

- Great for most limited access fasteners to remove and install: driveline bolts, torque converters, cylinder heads, 4x4 transmission casings
- Universal design provides greater access



**DL600P**  
6 PIECE 1/2" DRIVE  
COMBINATION DRIVELINE  
SOCKET SET - 12-PT.

- Great for most limited access fasteners to remove and install: driveline bolts, torque converters, cylinder heads, 4x4 transmission casings
- Universal design provides greater access



**SC89**  
7MM VW® / OPEL®  
TRIPLE SQUARE

- Drive size: 3/8"
- Works on previous generation VW® constant-velocity joints and Opel® manifold bolts

**NSM10MM**  
10MM MAGNETIC NUT SETTER



**SBM70990**  
STRETCH BELT MATE

- Use for all stretch fit belt applications
- This universal kit allows for the installation, removal, and reuse of all stretch fit belts





### SBT590 RATCHETING SERPENTINE BELT SET

- Releases tension on serpentine belts with a spring-loaded belt tensioner
- Ratcheting head with freewheel position allows maximum leverage
- Set ratcheting head to the middle or neutral/freewheel position and once maximum travel point is reached simply click lever into place to lock the ratchet mechanism
- Comes with extension for hard-to-reach belt tensioners
- This tool will work where conventional ratchets or breaker bars won't fit due to limited access



### SBT734 SERPENTINE BELT TOOL GRABBER

- Designed to help in the installation and removal of serpentine belts
- Has a gripping end that provides a positive grip on the serpentine belt, allowing user to access tight and difficult areas
- Long reach (26-1/2") and comfort handle to make grasping belts easy



### L30600 CV BOOT CLAMP PLIERS

- A special boot clamp crimping pliers that is designed to work in confined spaces
- The pliers work from the side (head is turned 90°) unlike traditional tools that work from the end

### SBT59800 MASTER SERPENTINE BELT SET

- Fits belt tensioners requiring 13mm, 14mm, 15mm, 16mm, 18mm hex, and both 1/2" and 3/8" square drive sizes
- 13mm and 16mm, Sockets are built into the handle
- Covers most domestic and some import applications

PRODUCT #	DESCRIPTION	DRIVE SIZE	SIZE (MM)	SET	
SBT59800	Master Serpentine Belt Set				
SBT590	Ratcheting Serpentine Belt Set				
SBT57400-450	Replacement Socket	—	18	•	•
LIS57580	Replacement Socket	—	16	•	•
SBT57400-440	Replacement Socket	—	15	•	•
LIS57390	Replacement Socket	—	14	•	•
SBT57400-500	Replacement Socket	—	13	•	•
SBT57560	Square Drive Socket	1/2"	—	•	•
SBT57400-530	Square Drive Socket	3/8"	—	•	•
LIS59100	Short Extension Bar	—	—	•	•
LIS59140	Adapter	—	19	•	•
SBT590-3	Ratcheting Handle with Grip	—	—	•	•
LIS59780	Handle with Grip	—	—	•	•



### SBT8586 RATCHETING SERPENTINE BELT TOOL

- 15mm x 3/8" Male Square, 16mm x 1/2" Male Square

### SBT8585 (NOT SHOWN) RATCHETING SERPENTINE BELT TOOL

- 13mm x 14mm, 18mm x 1/2" Male Square

### SBT8591 (NOT SHOWN) RATCHETING SERPENTINE BELT TOOL

- 14mm x 17mm, 19mm x 3/4" Male Square

### CF62B PRE-SET CYLINDER DEGLAZER

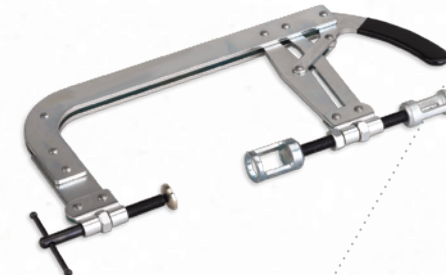
- Capacity: 2" to 7" (50.8 to 177.8mm)
- Medium grit stones: 4" (101.6mm)



### PRC144 PISTON RING COMPRESSOR SET

- Fine tooth ratcheting lock permits bands to be contracted in extremely small increments
- Set components are also available individually along with six additional bands, 4-3/8" through 5-5/8"

PRODUCT #	DESCRIPTION	OVERALL LENGTH (IN)	SET
PRC144	Piston Ring Compressor Set		
PRC14401	Ring Compressor Pliers	—	•
PRC14404	Piston Ring Bands	3-3/8" - 3-5/8"	•
PRC14405	Piston Ring Bands	3-5/8" - 3-7/8"	•
CAL144-113	Piston Ring Bands	3-7/8" - 4-1/8"	•
PRC14407	Piston Ring Bands	4-1/8" - 4-3/8"	•



### VC572 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)
- Direct action compressor lever gives better visibility of valve spring retainers located in difficult access areas

JAW OPENING IN. / MM	THROAT HEIGHT IN. / MM
1-3/8" to 5-5/8" / 34.9 to 142.9	5-7/8" / 149.2



### BC120200 MAGNETIC BEARING CUP INSTALLER

- Installs bearing cups with the assistance of an internal magnet
- Designed to be used for many automotive and light truck driveline applications



### BRD129MA RACE BEARING AND SEAL DRIVER SET

- Nine discs for most popular bearing sizes
- Comes in a sturdy blow-moulded case

### FT131108 LARGE MASTER BEARING RACE DRIVER

- All-in-one design, eliminating the need for a driver and several different heads
- Three-step jaw accommodates sizes; 18 – 56mm (0.75" – 2.25") range with a 10mm depth/reach 39 – 77mm (1.5" – 3.0") range with a 10mm depth/reach 48 – 86mm (2.0" – 3.5") range with a 20mm depth/reach
- Can be used on most vehicles, including motorcycles



### BD3142MA 22 PIECE BUSHING REMOVER AND INSERT KIT

- Sizes from 3/8" x 7/16" through 1-1/4" x 1-3/8"
- Three drivers and nuts for drivers
- Blow moulded case



### BD3143MA 9 PIECE HEAVY-DUTY BUSHING REMOVER AND INSERT KIT

- Sizes from 1-5/16" x 1-7/16" through 1-3/4" x 1-7/8"
- Blow moulded case



CA528  
17 PIECE CLUTCH ALIGNMENT TOOL SET

- Works on virtually all cars and light-duty trucks
- Aligns clutch plate properly by using tapered cones and pilot adapters
- Compatible with both metric and SAE sizes

INCLUDES:

SAE:

- 7 x Pilot Adapters
- 1 x Clutch Disc Centring Adapter
- 1 x Alignment Shaft

METRIC:

- 5 x Pilot Adapters
- 2 x Clutch Disc Centring Adapters
- 1 x Alignment Shaft
- 1 x 3.5mm Pin
- 1 x 4mm Pin
- 1 x 4.5mm Pin
- 1 x 5mm Pin

- 1 x 6mm Pin
- 1 x 7mm Pin
- 1 x 10mm Pin



OFH245C  
ADJUSTABLE OIL FILTER PLIERS

- Covers filters from 2" to 4-1/4" diameter
- Three contact points
- Made of forged alloy steel with heavy-duty textured grips



OFHPSETA  
AUTO AND TRUCK FILTER PLIERS SET

- Heavy-duty forged jaws with sharp teeth that grip the most stubborn oil filters
- Two new sizes that cover filters from 2-1/4" to 7" diameter

PRODUCT #	DESCRIPTION	SIZE	SET
OFHPSETA	Auto and Truck Filter Pliers Set		
OFH287A	Auto and Truck Filter Pliers	3-3/4" to 7" 18"	•
OFH297A	Auto and Truck Filter Pliers	2-1/4" to 5" 13-1/2"	•



L63600  
OIL FILTER WRENCH FROM 2-1/2" TO 3-1/8"

- The large range enables this wrench to fit most standard size filters
- Works great in tight spots since it works from the top of the filter
- Use with 3/8" drive ratchet or breaker bar



OFH276B  
3-PRONG HEAVY-DUTY FILTER WRENCH

- Gear-driven hardened metal legs grip and turn the tightest filters
- Use with 1/2" square drive tools
- Filter diameter: 2-1/2" to 4" (63.5 to 101.6mm)



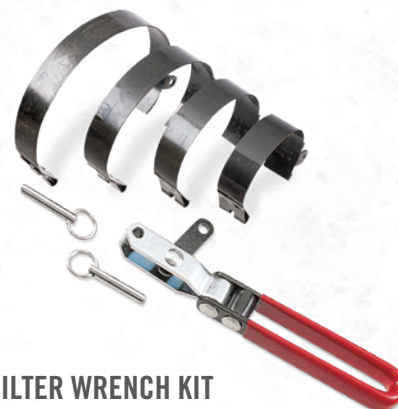
OFW60-80  
SNAP FIT OIL FILTER WRENCH

- Compact for access into tight areas
- High torque capability
- No damage to filter when loosening or tightening
- Automatic one hand adjustment on filters
- Wrench stays in position on filter while searching for a ratchet
- Patented grip system
- Size Range: 60-80NM



OFKIT5PC  
5 PIECE OIL FILTER CUP WRENCH SET

- Filter cup wrenches will service 98% of the cars sold in the USA
- Made of super-strong nylon fibre composite that will withstand more torque than conventional metal filter wrenches
- Metal insert in wrench for strength



OF4B  
OIL FILTER WRENCH KIT

- Features one handle and yoke assembly with four different bands

PRODUCT #	DESCRIPTION	FILTER SIZE	SET
OF4B	Oil Filter Wrench Kit		
OF4B-01	Handle and Swivel	—	•
OF4B-02	Pin	—	•
OF4B-03	Oil Filter Band	2-3/8" - 2-3/4"	•
OF4B-04	Oil Filter Band	2-7/8" - 3-1/4"	•
OF4B-05	Oil Filter Band	3-1/2" - 3-7/8"	•
OF4B-06	Oil Filter Band	4-1/8" - 4-7/16"	•



OFS7-SET  
7 PIECE FILTER SOCKET SET

PRODUCT #	SIZE IN. / MM	APPLICATIONS	SET
OFS7-SET	7 Piece Filter Socket Set		
LIS13280	/ 25	Fleetguard® filter on motor homes, buses, and some medium-size trucks with Cummins® engines. Also some K&N® filters	•
LIS13290	/ 28	'10 - '18 Dodge® Cummins® 6.7L fuel filter	•
LIS14600	1-1/8" / 29	Dodge® Cummins® fuel filter	•
LIS13310	/ 24	Cadillac® and some BMW®	•
LIS13320	/ 27	'03 and later Mercedes® 1.8L, Smart and some VW®	•
OFS145	/ 35/36	Ford® 6.0L Diesel fuel and oil filter housings, Mini Cooper® and BMW® oil filter housings, Mack® Truck oil filter housing	•
OFS147	1-1/4" / 32	GM® Ecotec 2.0L, 2.2L, 2.4L 4-cylinder oil filter housing, Chevrolet® HHR 2.4L oil filter housing and some Saturn® and SAAB®	•



HEAVY-DUTY OIL FILTER WRENCHES

- Use with 1/2" square drive ratchet or breaker bar

PRODUCT #	APPLICATIONS	FILTER SIZE
OFH2320B	Full Size Trucks and Vans	4-1/8" - 4-21/32"
OFH2321B	Full Size Trucks and Vans	4-21/32" - 5-5/32"
OFH2322B	HD Equipment	5-5/32" - 5-21/32"





### OFH635 BELT FILTER WRENCH

- Use with 1/2" drive ratchet or breaker bar to remove filters up to 6-1/2"
- Strong nylon belt will not slip



### L60200 HEAVY-DUTY STRAP WRENCH

- A heavy-duty, heat-treated alloy steel yoke and strong web strap
- Use with 1/2" drive ratchet or breaker bar to remove filters up to 6-1/2"
- 3-5/8" Long yoke fits into tight areas



### OF989 TRUCK SWIVEL OIL FILTER WRENCH

- Fits filters 4-5/16" to 4-3/4" and Cummins® and Detroit Diesel® engines



### OF991 TRUCK SWIVEL OIL FILTER WRENCH

- Fits filters 5-1/4" to 5-3/4" and Caterpillar® engines

### SWIVEL OIL FILTER WRENCHES

- Stainless steel band with projection welds for strength and anti-corrosion
- Heat-treated handle/alloy steel swivel with increased metal thickness

PRODUCT #	APPLICATIONS	FILTER SIZE
OF537A	Compacts and Imports	2-7/8" - 3-1/4"
OF535A	Standard Size Oil Filters	3-7/16" - 3-3/4"

### LD11102 8-GALLON OIL LIFT DRAIN

- Quick-release lock ring for fast raising and lowering of upper tube with a total adjustment range of 22-1/2"
- Large 15" funnel with strainer
- Heavy-duty clamp with height adjustment range of 15"
- Specially shaped jug holds 8 gallons
- Reinforced base will not warp with hot oil
- Large handles make pouring easy
- Big pour spout with threaded cap
- Four 2-1/2" ball bearing wheels swivel and roll easily



### BH14550 5 PIECE BREATHER HOSE RELEASE TOOL SET

- Designed for European vehicles that utilize plastic hose locks in the engine, which can easily be damaged if removed improperly
- Lightweight aluminum anodized
- Compact size and slim design allow for easy installation and removal of the fittings, saving the technician time
- Applications include Audi, BMW, Volkswagen, Mini and Mercedes Benz vehicles



### SP57HB SEAL PULLER WITH COMFORT-GRIP™ HANDLE

- Two-sized tips to fit most seal applications



### OFPKIT4PC 4-PC. PLASTIC OIL PAN PLUG TOOL KIT

- Contains tool and adapters to remove plastic oil pan drain plugs found on many late model Ford®, Volkswagen®, Audi® and BMW® vehicles
- Includes adapters for Ford/Lincoln plastic oil pan drain plugs of engines: 2.7L, 2.7L (2018), 3.0L, 3.3L, 3.5L Turbo from 9-12-2018, 5.0L (2018)
- The adapters will not damage drain plugs and are designed to slot in and easily release these plugs
- Comes in a hard case for easy storage



### S120P SEAL PULLER

- A few hammer taps on tool back removes seals on automatic transmissions
- Standard 1/2" stock



### SF19802 2 PIECE SUPER FUNNEL

- Use the large end to fill the crank case and the antifreeze receptacle without dripping on the engine cover or paint job
- Use as a long super funnel with both parts screwed together







**SP700A**  
30° BEND SPARK  
PLUG BOOT PULLERS

**SP600A** (NOT SHOWN)  
70° BEND SPARK  
PLUG BOOT PULLERS

- Allows for easier access to the boot
- Custom handle making it easier to grip



**SPS8310**  
SPARK PLUG  
STARTER-FLEXIBLE

- Plug starter is intended to be used to start spark plugs in difficult to reach areas
- This tool consists of flexible beads (12-1/2" long overall) with a twist handle on one end and a spark plug holder on the other



**SPS1**  
SPARK PLUG  
STARTER

- Flexible, sure grip
- Universal size, fits all spark plugs
- Durable, convenient, and non-marring



### UNIVERSAL SPARK PLUG SOCKET 3/8" DRIVE

- Rubber retainer holds the spark plug by the porcelain insulator for better grip
- Highly chromed finish for easy clean up and long lasting corrosion protection
- Knurled end for easy turning by hand
- May be used with or without an extension

PRODUCT #	SIZE	DESCRIPTION	TYPE	CHROME
SC179RA	5/8"	Universal Spark Plug Socket	Block	•
SC181R	5/8"	Universal Spark Plug Socket	Ball	
SCU14MMR	14mm	Universal Spark Plug Socket	Block	•

**SPKM12-SET**  
12 PIECE METRIC  
SPARK PLUG SOCKET SET



SC177RTW



### THIN-WALL SPARK PLUG SOCKETS

- Thin-wall design ideal for spark plug wells with limited space
- Rubber insert grips spark plug securely
- Hex end allows the use of a wrench if necessary
- High polish chrome-plated finish for long lasting corrosion resistance

PRODUCT #	SIZE	OVERALL LENGTH	OUTSIDE DIA
SC177RTW	Thin-Wall Spark Plug Socket 16mm	2-1/2"	25/32"
SC214MMRTW	Thin-Wall Spark Plug Socket 14mm - 12-PT.	2-3/4"	23/32"



### MAGNETIC SPARK PLUG SOCKET INSERTS

- Magnet firmly holds both the insert in the socket, and the spark plug in the insert
- Helps prevent damage to the ceramic portion of the spark plug
- Four sizes fit most domestic and imported spark plug sockets

PRODUCT #	SIZE	MAC TOOLS SOCKETS SERVICED
SP530	0.54	SC177R, SC179RA
SP531	0.58	SC163R, SC169R, SC181R
SP532	0.7	SC163R, SC169R, SC181R
SP533	0.785	SC164R, SC178R, SC180RA, SC182R

**SC178R**  
13/16" SPARK PLUG  
SOCKET



**SC177R**  
5/8" SPARK PLUG  
SOCKET

- Rubber retainer holds plug by the porcelain insulator for better grip
- Knurled for firm control
- Hex end allows turning by wrench
- Chrome plated
- 3/8" Drive



**SPK9-SET**  
9 PIECE MULTI-LENGTH SPARK PLUG SOCKET SET

- Three different sizes and three different configurations most commonly used when working with spark plugs: 9/16", 5/8", and 13/16" sizes in standard, universal, and extra deep styles
- Highly chromed finish for easy clean up and long lasting corrosion protection
- Each socket is knurled for easy turning by hand

### 3/8" DRIVE DEEP SPARK PLUG SOCKETS

PRODUCT #	SIZE
SC10MMR	3/8" Drive Deep Spark Plug Socket 10mm
SC16MMR	3/8" Drive Deep Spark Plug Socket 16mm
SC18MMR	3/8" Drive Deep Spark Plug Socket 18mm
SC21MMR	3/8" Drive Deep Spark Plug Socket 21mm
SCD16MMRD	3/8" Drive Extra Deep Spark Plug Socket 16mm
SCD21MMRD	3/8" Drive Extra Deep Spark Plug Socket 21mm
SCU16MMR	3/8" Drive Deep Universal Spark Plug Socket 16mm
SCU21MMR	3/8" Drive Deep Universal Spark Plug Socket 21mm

PRODUCT #	SIZE	OVERALL LENGTH	OUTSIDE DIA	SET
SPK9-SET	9 Piece Multi-Length Spark Plug Socket Set			
SC1832R	Spark Plug Socket 9/16"	2-1/2"	25/32"	•
SC2032R	Spark Plug Socket 5/8"	2-1/2"	27/32"	•
SC2632R	Spark Plug Socket 13/16"	2-1/2"	1-1/4"	•
SCD1832RD	Extra Deep Spark Plug Socket 9/16"	5-7/8"	25/32"	•
SCD2032RD	Extra Deep Spark Plug Socket 5/8"	5-7/8"	27/32"	•
SCD2632RD	Extra Deep Spark Plug Socket 13/16"	5-7/8"	1-1/4"	•
SCU1832R	Universal Spark Plug Socket 9/16"	3-7/16"	25/32"	•
SCU2032R	Universal Spark Plug Socket 5/8"	3-7/16"	27/32"	•
SCU2632R	Universal Spark Plug Socket 13/16"	3-7/16"	1-1/4"	•





MASTER DISCONNECT AND A/C FUEL LINE  
DISCONNECT SETS

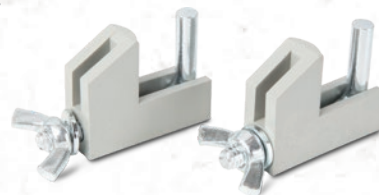
PRODUCT #	SIZE	DESCRIPTION	SET
MD4000	Master Disconnect Set		
DTS37000	6 Piece A/C Fuel Line Disconnect Set		
DS410	5/16"	Angled Disconnect - Yellow	•
DS420	3/8"	Angled Disconnect - Blue	•
LIS39430	1/2"	Angled Disconnect - Red	•
LIS39440	5/8"	Angled Disconnect - Green	•
LIS39450	3/4"	Angled Disconnect - Orange	•
LIS39460	7/8"	Angled Disconnect - White	•
LIS37010	7/8"	Disconnect Tool	• •
LIS37020	3/4"	Disconnect Tool	• •
LIS37030	5/8"	Disconnect Tool	• •
LIS37040	1/2"	Disconnect Tool	• •
L37050	3/8"	A/C Fuel Line Disconnect Tool	• •
LIS37060	5/16"	Disconnect Tool	• •
FF350		GM® Fuel Filter Disconnect	•
LIS37500		GM® Fuel Module Disconnect	•
MD4000-4		Right Arm GM® Fuel Module Disconnect	•
MD4000-5		Right Arm GM® Fuel Module Disconnect	•
MD4000-9	5/16"-3/8"	Scissor Disconnect	•
TD960		Ford® Trans Oil Cooler Disconnect	•



HOSE PINCHING CLAMPS

- Lightweight, sturdy, non-conductive locking clamps for fuel, vacuum, and radiator hoses
- Both sets include small, medium, and large sizes which cover 7/64" to 2-1/4"

PRODUCT #	DESCRIPTION	SIZE	SET
FCSA	3 Piece Angled Hose Pinching Clamps		
FCS1	3 Piece Hose Pinching Clamps		
FCSA1	Fuel Line Clamp	Small	•
FCSA2	Fuel Line Clamp	Medium	•
FCSA3	Fuel Line Clamp	Large	•
FCS1A	Hose Clamp	Small	•
FCS1B	Hose Clamp	Medium	•
FCS1C	Hose Clamp	Large	•

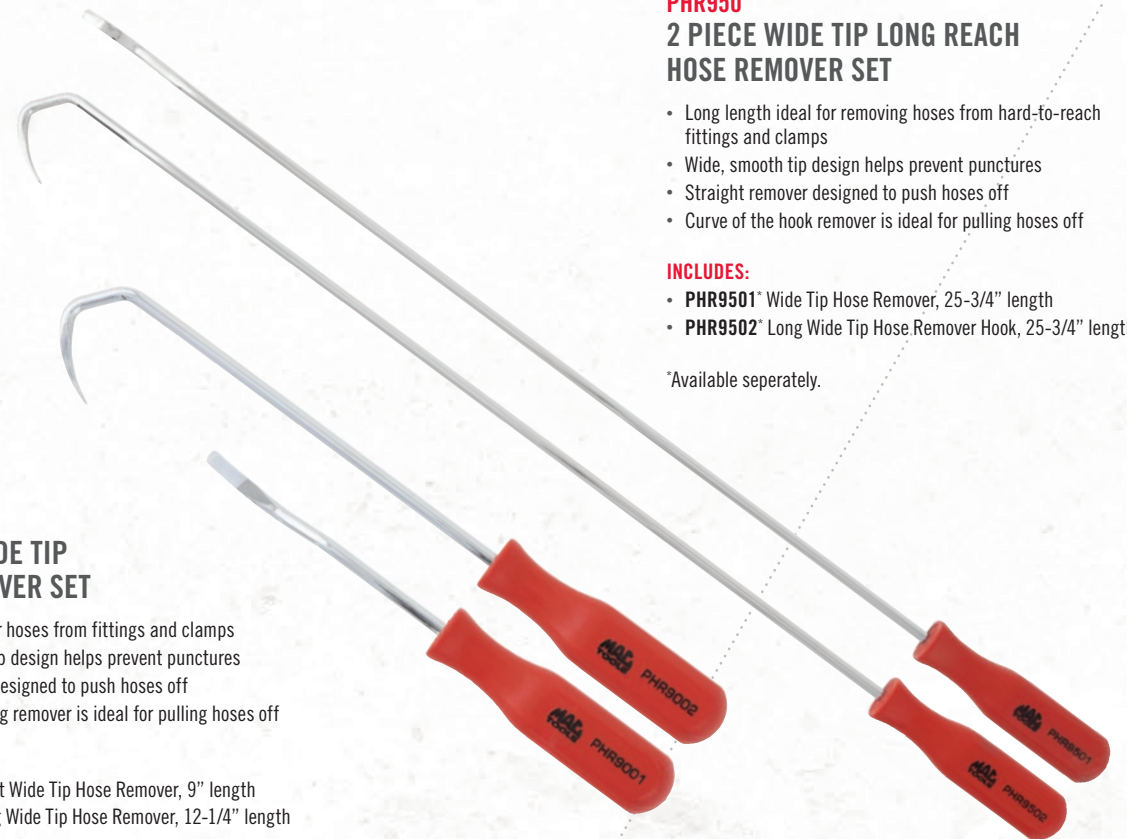


HCP22850  
2 PIECE HOSE PINCHER SET

- A very quick and easy way to pinch off vacuum lines, fuel lines, and other small diameter lines without damage
- Body is made from strong fibreglass reinforced nylon for long life and resistance to solvents

FLP1  
FUEL LINE PLIERS

- Used to remove fuel lines with quick connect, snap/slide, and lock couplers
- Adjustable jaws provide use in hard-to-reach areas with restricted access
- Suitable for use on multiple vehicle types



PHR950  
2 PIECE WIDE TIP LONG REACH  
HOSE REMOVER SET

- Long length ideal for removing hoses from hard-to-reach fittings and clamps
- Wide, smooth tip design helps prevent punctures
- Straight remover designed to push hoses off
- Curve of the hook remover is ideal for pulling hoses off

- INCLUDES:**
- PHR9501\* Wide Tip Hose Remover, 25-3/4" length
  - PHR9502\* Long Wide Tip Hose Remover Hook, 25-3/4" length

\*Available seperately.

PHR900  
2 PIECE WIDE TIP  
HOSE REMOVER SET

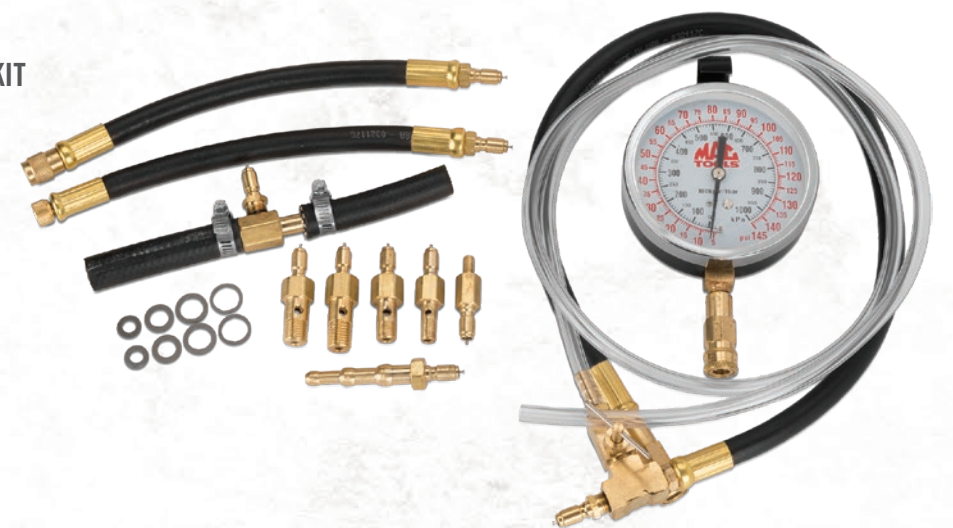
- Removes rubber hoses from fittings and clamps
- Wide, smooth tip design helps prevent punctures
- Short remover designed to push hoses off
- Curve of the long remover is ideal for pulling hoses off

- INCLUDES:**
- PHR9001\* Short Wide Tip Hose Remover, 9" length
  - PHR9002\* Long Wide Tip Hose Remover, 12-1/4" length

\*Available seperately.

FIT810B  
BASIC FUEL INJECTION TEST KIT

- Includes adapters to service many domestic, Japanese, and marine applications
- Includes both GM® and Ford® test port fittings, in-line and end-of-line hose connections, and fuel bolt sizes 6mm-12mm
- All adapters and gauge heads have quick disconnect fittings for ease of use



S115KP  
DIESEL INJECTOR PULLER®

- Pulls injectors on Detroit Diesel® and Cummins® engines
- Bend and long handle provide extra leverage







# SPECIALTY TOOLS

## EMISSIONS



### OSW28F BENT-HANDLE FLEX-HEAD OXYGEN SENSOR WRENCH – 6-PT.

- Flexible head design assists in the removal of stubborn O<sub>2</sub> sensors that are 7/8" in diameter, a common size to most vehicles
- Pivots to allow more angles of placement



### OSW-SET 11 PIECE OXYGEN SENSOR SOCKET SET

- Master oxygen sensor and sending unit tool set

PRODUCT #	DESCRIPTION	APPLICATIONS	SIZE	SET
OSW-SET	11 Piece Oxygen Sensor Socket Set			
OSW101	Oxygen Sensor Socket	O <sub>2</sub> and oil pressure sending units on late	1/2" x 29mm x 90mm	•
OSW102	Oxygen Sensor Socket	1980's / mid-1990's vehicles	3/8" x 7/8" x 90mm	•
OSW103	Oxygen Sensor Socket	Vacuum switches with a 7/8" hex and some O <sub>2</sub> sensors	1/2" x 27mm x 85mm	•
OSW104	Oxygen Sensor Socket	Thermal sensor switches on 1973-1977 GM® vehicles	3/8" x 7/8" x 80mm	•
OSW105A	Oil Sending Unit Socket	O <sub>2</sub> sensors and vacuum switches on many domestic and imported vehicles requiring wire clearance	1/2" x 1-1/16" x 74mm	•
OSW106	Oxygen Sensor Socket	Designed with a slot to accommodate the connectors on heated O <sub>2</sub> sensors	3/8" x 7/8" x 50mm	•
OSW107	Offset Oxygen Sensor Wrench	Low profile for use in tight areas	3/8" x 7/8" x 30mm	•
OSW108	Special Tube Socket	To remove O <sub>2</sub> sensors on many European vehicles; also for Mercedes diesel injectors	3/8" x 22mm	•
OSW109	Offset Oxygen Sensor Wrench	Allows maximum accessibility when removing O <sub>2</sub> sensor sockets; also for Super-Duty 12- and 6-PT. applications	2-1/8"	•
OSW110	Deep Oxygen Sensor Socket	Side slot allows wire clearance	3/8" x 3-7/8"	•
OSW111	Oxygen Sensor Thread Chaser	Can be used to clean and repair threads on exhaust O <sub>2</sub> sensor parts; also to clean threads on M18 x 1.5 spark plug socket	—	•

### SC1531A OXYGEN SENSOR SOCKET

- Remove and install oxygen sensors on computerized engine control vehicles
- Can be used in conjunction with a torque wrench
- Size: 7/8" x 3-7/8"



### OSW8875B OXYGEN SENSOR WRENCH

- Compact design
- Made from quality heat-treated steel, this tool works on both foreign and domestic cars
- Drive size: 3/8"

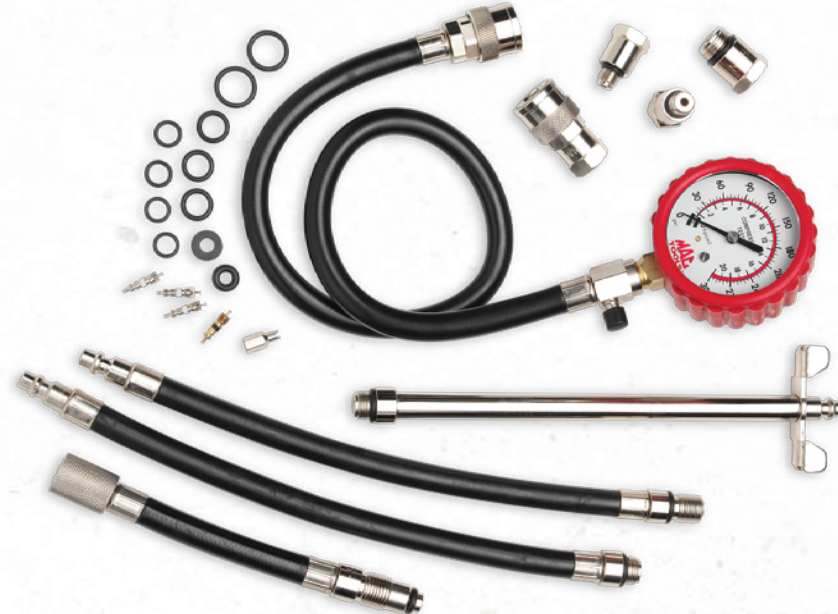
TOOLS AND NOTES	ENGINE SIZE	CONFIGURATION	REPRESENTATIVE CAR MODEL
SC1531A	1.9L	1-4	Escort® GT
SC1531A (LOTS OF ROOM, SMALL SENSOR)	2.3L OHC	1-4, FBC	Mustang® / Capri®
SC1531A (HS)	2.9L	V-6, EFI	Ranger®
SC1531A OR WRENCH (HS)	2.9L	V-6	Bronco II®
SC1531A OR WRENCH (LOTS OF ROOM, HS)	3.0L	E-6, EFI	Aerostar®
SC1531A (CLOSE TO WALL, DIFFICULT TO FIT)	3.8L	E-6, EFI	Cougar® / T-Bird® LTD/ Marquis®
SC1531A (MOVE 1/4" TUBE TO FIT)	4.9L	16	F150®
SC1531A (HS)	5.0L	V-8, EFI	Marquis Grand F150®

\* Does not list all possible models. EFI - electronic fuel injection, FBC - feedback carburetor, NHS - non-heated O<sub>2</sub> sensor, HS - heated O<sub>2</sub> sensor.

# SPECIALTY TOOLS

## TESTING

11



### CT155A DELUXE COMPRESSION TEST KIT

- Complete with standard and speciality 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 Ford® Triton™ engine adapter using 16mm thread plugs

#### INCLUDES:

- 14mm Deep Well Extension
- 12mm Adapter
- 18mm Adapter
- 16mm Compression Tester Adapter



### TPT460M TRANSMISSION / OIL PRESSURE TEST KIT

- This professional kit can be used for domestic and import applications
- High and low pressure gauges make this kit useful for both transmission and engine work
- Comes complete with adapters for most applications and is designed to be used for either static or road testing

#### INCLUDES:

- M8 x 1.0 to 1/8" NPT
- M10 x 1.0 to 1/8" NPT
- M12 x 1.75 to 1/8" NPT, 1/8" NPT x 2" Male
- 1/4" NPT Male x 1/8" NPT Male
- 1/8" NPT Female
- 1/4" NPT Male / Female, 3/8" NPT Male x 1/8" Female
- 1/8" NPT Male x 1/8" Female
- 1/16"-27 NPT Male x 1/8"-27



### CLD210MA DIFFERENTIAL CYLINDER PRESSURE TESTER

- Quickly locates internal engine problems such as bad rings, valves, and leaking head gaskets
- Comes with adapters for most applications

#### INCLUDES:

- 10mm Adapters
- 12mm Adapters
- 18mm Adapters
- Blow-Moulded Case



### VP5000K AUTOMOTIVE PRESSURE TEST KIT

- Can be used as a complete one-person brake bleeding kit with 12-oz. bottle and rigid quick connect to pump
- Dual hand pump can produce and measure vacuum or pressure with equal performance and precision
- Switches between vacuum/pressure at the turn of a switch ergonomically designed handle for ease of operation
- Single-hand vacuum/pressure release action allows multiple tests without disconnection
- Accessories to perform multiple vacuum and pressure tests on vehicle



### CT900D DIESEL COMPRESSION TESTER SET

- Includes 0 to 1,000 PSI (0-70 bars) compression gauge and adapters for GM®, VW®, Small Cummins®, Mercedes Benz®, plus adapter to fit Bacharach fittings
- Release valve allows for venting – resets for repeat tests
- Swivel end connector attaches to adapters
- Records maximum pressure
- High-pressure hose, 16-1/2" long



PRODUCT #	APPLICATIONS	SIZE	SET
CT900D	Diesel Compression Tester Set in Metal Box		
CT700D	Compression Tester	-	•
SGT34730	GM® and Ford® / International 6.9L	Fits Glow Plug Port	•
CT740VW	Volkswagen®	Fits Fuel Injector Port	•
SGT34760	Small Cummins®	Fits into Nozzle / Injector Port	•
CT780MB	Mercedes Benz®	Fits Glow Plug Port	•
SGT34770	Heavy-Duty Equipment / Heavy-Duty Injector Port	Fits Bacharach Adapters	•

### DDR6059F DIGITAL CALIPER 0 - 2.25"

- Three keys: mm/in (metric/inch conversion)
- ABS (absolute and relative measurement conversion)
- ON-ZERO (power on/off and zero setting)
- Hardened stainless steel construction, thumb wheel and lock screw, automatic power off and RS232 output
- Supplied with one spare battery
- Meets DIN862 specification
- Blow-moulded case



### MP500A STETHOSCOPE

- Unique sound chamber and super-thin diaphragm greatly amplifies sounds
- Pinpoints source of noises in engines, transmissions, differentials, and bearings
- Longer probe can reach deep into engine compartment



### DDR6465 DIGITAL ROTOR / BALL JOINT DIAL INDICATOR

- RS232 output
- Spare battery
- Checks ball joint wear and disc rotor run-out
- Indicator mounted on flex-arm
- Meets DIN878 specification
- Blow-moulded case



### DDI350 DIGITAL DIAL INDICATOR WITH MAGNET

- RS232 output
- Spare battery
- Measures distance, checks alignment, roundness and run-out, cam shaft, and valve guide wear
- Powerful magnetic base
- Meets DIN878 specification
- Blow-moulded case



### F6002 25-BLADE UNIVERSAL MASTER GAUGE

- Standard feeler gauges



### F6013 22-BLADE MASTER GO-NO-GO GAUGE



### F6015 16-BLADE MASTER IGNITION GAUGE



### F6030 25-BLADE METRIC MASTER GAUGE

### F615 15-BLADE VALVE LASH FEELER GAUGE

- For valve adjustment

- INCLUDES:**
- 15 x Step-ground
  - 15 x Go-No-Go blades



PRODUCT #	BEND	BLADE SIZE	BLADE SIZE MM	BLADE THICKNESS MM
F6002	0°	3" x 1/2"	76.2 x 12.7	.0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .018, .020, .022, .024, .025, .028, .030, .032, .035
F6013	0°	3" x 1/2"	76.2 x 12.7	.004-.006, .005-.007, .006-.008, .007-.009, .008-.010, .009-.011, .010-.012, .011-.013, .012-.014, .013-.015, .014-.016, .015-.017, .016-.018, .017-.019, .018-.020, .019-.021, .020-.022, .021-.023, .022-.024, .023-.025, .024-.026, .025-.027
F6015	0°	1-3/4" x 1/4"	44.5 x 6.4	.011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, .024, .025, .028, .030, .032
F6030	0°	3" x 1/2"	76.2 x 12.7	.04, .05, .06, .07, .08, .09, .10, .15, .20, .25, .30, .35, .40, .45, .50, .55, .60, .65, .70, .75, .80, .85, .90, .95, 1.00
F615	45°	6" x 1/2"	152.4 x 12.7	.007-.009, .008-.010, .009-.011, .010-.012, .011-.013, .012-.014, .013-.015, .014-.016, .015-.017, .016-.018, .017-.019, .018-.020, .019-.021, .020-.022, .023-.025, .025-.027, .026-.028, .028-.030



# SPECIALTY TOOLS

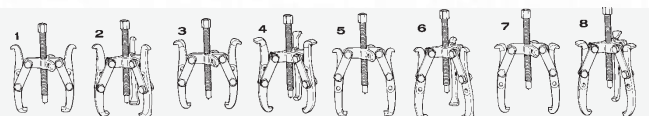
## PULLERS

### PJ200SB 2-TON 2-/3-JAW PULLER

- Reversible jaws grip tighter as more pressure is applied
- Convertible design allows tool to be used in 2- or 3-jaw mode



THE PJ200SB PULLER SET MAY BE ASSEMBLED INTO THE EIGHT DIFFERENT CONFIGURATIONS AS SHOWN



PRODUCT #	DESCRIPTION	CAPACITY TONS	REACH IN. / MM	SCREW SIZE	SPREAD IN. / MM
PJ200SB	Eight-Way Puller Set	2	3-3/8" / 85.7	3/8" - 24 x 4-7/8"	4-3/4" / 120.7

### RATCHETING GEAR PULLER

- Quick-release jaws for fast changes between two- and three-jaw mode
- Ratcheting design holds jaws in position while setting puller
- Jaws are reversible for pulling on the inside or outside of object needing pulled



PRODUCT #	DESCRIPTION	CAPACITY (TONS)
GP102	2-3 Jaw Puller	2
GP105	2-3 Jaw Puller	5
GP107	2-3 Jaw Puller	7



### PS16LP-SET 16 PIECE SLIDE HAMMER & PULLER SET

- Removes bushings, bearing races, and pressed-in-studs
- Autobody dent puller attachments: 2 lb. slide hammer, 3-8/16" threaded slide screw, inside spread from 3/8" to 1-1/4", outside spread from 0" to 3", and a maximum reach of 2-1/2"

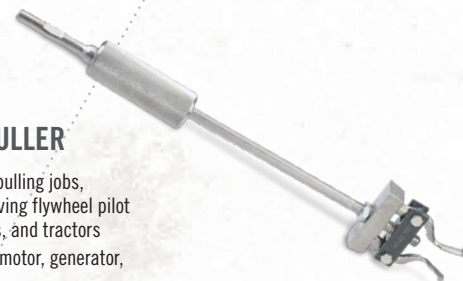
#### INCLUDES:

- Autobody dent puller attachments: 2 lb. slide hammer, 3-8/16" threaded slide screw, inside spread from 3/8" to 1-1/4", outside spread from 0" to 3", and a maximum reach of 2-1/2"



### PBP1170C PILOT BEARING PULLER

- Built specially for inside pulling jobs, and particularly for removing flywheel pilot bearings on autos, trucks, and tractors
- Also practical for pulling motor, generator, and magnet bearings.



### PP955B PILOT BEARING PULLER



# SPECIALTY TOOLS

## PULLERS

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### BH581B BLIND HOLE BEARING PULLER SET

- For pulling jobs requiring an internal pull
- Four collet sizes: 7/16" to 1/2", 9/16" to 11/16", 5/8" to 1", 1" to 1-1/4", for a wide range of applications

#### INCLUDES:

- 2-1/2-lbs. Slide hammer with T-handle
- Blow-Moulded Case



### PS959B SLAMMER HAMMER EIGHT-WAY PULLER

- 5 lbs. Slide hammer

INSIDE SPREAD	OUTSIDE SPREAD	SLIDE ROD SIZE
1-1/4" to 4-1/4" (31.8mm to 108.0mm)	1" to 4-1/2" (25.4mm to 114.3mm)	5/8"-18" x 23"



### PB518B 5-TON BAR-TYPE PULLER / BEARING SEPARATOR SET

- Two bearing splitters (2" and 3"), four sets of hex push-puller legs and bar-type puller head
- 5" Puller cross-bar with 6-1/4" forcing screw

### PB518B-4 FORCING SCREW



### PS1190B SLAMMER HAMMER PULL SET

- Deluxe version of the popular Slammer Hammer
- This set will make up to ten different pullers
- Includes a wider assortment of jaw sizes, a front hub puller assembly, and a forcing screw and sleeve



# SPECIALTY TOOLS

## PULLERS

### PP522B LARGE GEAR AND PULLEY PULLER

- Removes parts with tapped holes such as gears and pulleys
- Any cap screws up to 1/2" diameter can be used (not included)



### PP7208C FRONT HUB PULLER

- Removes and installs front hubs on today's FWD cars
- Creates up to five tons of working force, for use on most front wheel drive cars, plus a spare locknut that allows the use of a standard slide hammer puller for rear axle flanges
- With locknut for rear axle flanges



### STP600B 43 PIECE DELUXE MASTER BOLT GRIP SET

- Covers almost every car, pickup, SUV and small engine
- Capable of handling almost every 2- or 3-way bolt pull possible
- For use on a variety of jobs: harmonic balancers, steering wheels, crankshaft pulleys, and gears

#### INCLUDES:

- 1 x 3/4" Centre x 4-1/4" Diameter Heavy-Duty 4-Way Slotted Puller Yoke
- 1 x 3/4-16UNF x 5-3/8" Grade 5 Hardened Live-Centre Forcing Screw
- 1 x 3/4-16UNF x 2-3/4" Grade 5 Hardened Live-Centre Forcing Screw
- 3 x 5/16-24 UNF x 3" Grade 8 Special Stepped Bolts
- 1990 and Newer GM® 3300-3800 V-6 Crankshaft Pulleys
- 1 x Blow-Moulded Case
- 1 x Detailed Application Chart
- 3 x 1/4 - 28UNF x 3"
- 3 x 5/16 - 24UNF x 3"
- 3 x 5/16 - 18UNC x 3.5"
- 3 x 3/8 - 24UNF x 1.5"
- 3 x 3/8 - 16UNC x 2"
- 3 x 3/8 - 16UNC x 3"
- 3 x 3/8 - 16UNC x 4.5"
- 3 x 8mm x 1.25 x 90mm
- 3 x 8mm x 1.25 x 45mm
- 3 x 8mm x 1.25 x 65mm
- 3 x 10mm x 1.5 x 35mm Grade 8 Washer Head Bolts



### WW676A WINDSHIELD WIPER ARM PULLER

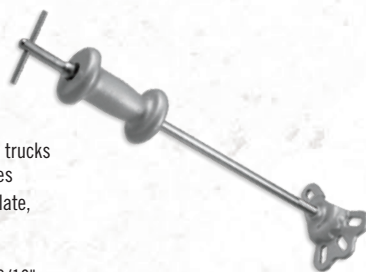
- Removes wiper arms on many foreign and domestic cars and light trucks
- Prevents damage to wiper arm or hood cowl during removal



PRODUCT #	PULLER BLOCK WIDTH IN. / MM	SCREW	SPREAD RANGE IN. / MM
PP522B	8-1/4" / 209.6	3/4"-16 x 11-5/8"	2" to 7-3/4" / 50.8 to 196.9

### PP967C SLIDE HAMMER REAR AXLE PULLER

- Fits most passenger cars and light trucks for removal of flange-type rear axles
- 5-lbs. Slide hammer with pulling plate, services axles with bolts or studs up to 9/16" diameter
- Fits 4, 5, or 6 bolt stud circle to 5-9/16" (141.3mm)



# SPECIALTY TOOLS

## EQUIPMENT



### BB2500 BLEEDER AND FLUID DISPENSER

- Compressed-air-powered system designed for performing one-person vacuum brake and clutch bleeding
- Utilizes compressed "shop-air" to produce vacuum for extracting and pressure for dispensing
- Includes accessories for extracting used brake fluid while refilling with new
- Used or new fluids are dispensed by switching from vacuum to pressure
- Isolated flow control and pressure / vacuum switch valves provide simple functionality control
- Redundant pressure control systems safely maintain peak output pressure below 30 psi (2 bar)
- 2.5-quart (2.5-litre) capacity reservoir

#### INCLUDES:

- 1 x Pneumatic lid for evacuation and dispensing
- 1 x 2.5L bottle
- 1 x Fluid Evacuation W



### MV6400MAC FLUID DISPENSING SYSTEM

- The MV6400MAC is designed for topping-off fluid reservoirs including master cylinders, gear boxes, transmissions, power steering reservoirs, etc.
- Its convenient size and 5' long hose with dispensing wand and flow control valve make it ideal for accessing hard-to-reach reservoirs and fill plugs
- For transmission refill and pressure bleeding applications, the MV6400MAC is compatible with a wide selection of ATF and pressure bleed adapters



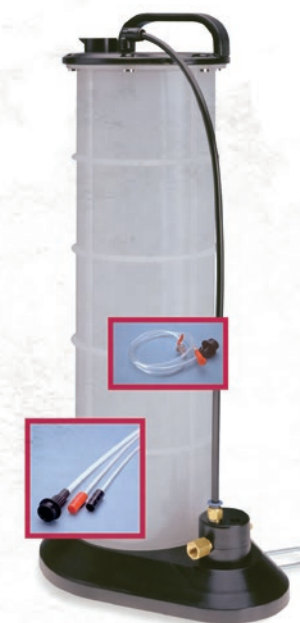
### MV7201A 8.8 LITRE FLUID EVACUATOR / DISPENSER

- Creates vacuum and pressure
- Can evacuate and dispense most automotive liquids
- Larger capacity 8.8 litre fluid reservoir
- Automatic flow control valve prevents overfilling
- No electric or compressed air required
- Can be used with our MV7205A brake bleeder kit



### FE8000 7.3 LITRE FLUID EVACUATOR

- Evacuate most automotive liquids and chemicals
- Automatic flow control prevents overfilling
- Pressure relief valve for safety
- Fully sealed cylinder
- Durable polyethylene construction
- Dipstick tubes for engine oil removal
- Pour spout for easy dispensing of fluids
- No power required

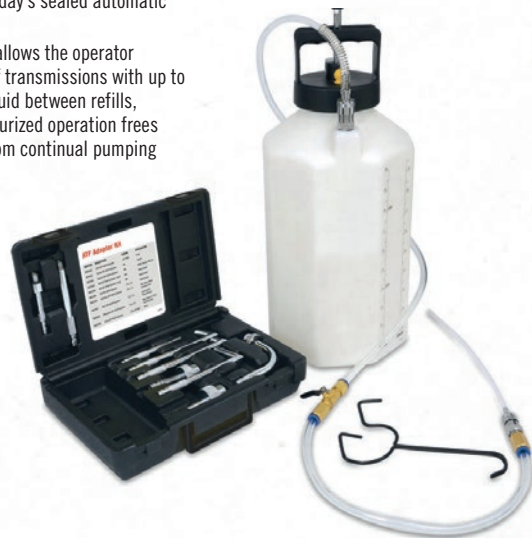


### MV7300-MAC PNEUMATIC AIR OPERATED FLUID EVACUATOR



### MV6412MAC 2.5-GAL ATF REFILL SYSTEM

- The MV6412MAC combines the new Fluid Dispenser with our popular ATF refill adapter kit to provide a complete system for servicing today's sealed automatic transmissions
- The dispenser allows the operator to fill or top-off transmissions with up to 2.5-gallon of fluid between refills, while the pressurized operation frees the operator from continual pumping

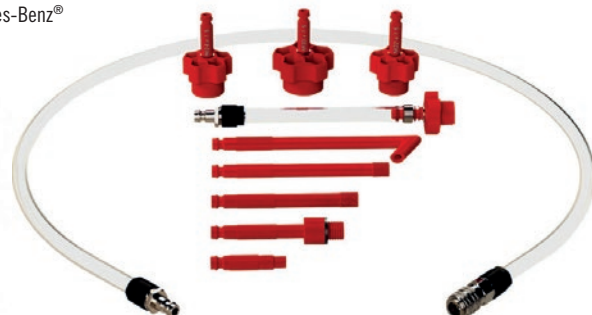


### PBT71201 TRANSMISSION ADAPTER KIT

- Kit contains 10 pressure hose adapters to use with PBT71196 Drill Pump to efficiently refill sealed automatic transmissions
- Quick-connect fittings on adapters and pressure hose for easy interchange
- Included pressure hose with quick-couple fittings for quick adaptor interchange
- Adapters made from lightweight, high strength composite material with high chemical resistance
- High-impact resistance prevents damage to adapter thread if dropped

#### INCLUDES:

- Adapter - M22 x 1.5mm: VW® / Audi® with CVT Transmission
- Adapter - M24 x 1.5mm: VW® / Audi® with DSG Transmission
- Adapter - M30 x 1.5mm: VW®
- Adapter - M8 x 1.0mm x 46mm: VW® Tiguan
- Adapter - M18 x 1.5mm with flex hose: Toyota® ATF
- Adapter - 5/16 - 24 UNF x 46mm: Volvo® ATF
- Adapter - M10 x 1.0mm x 95mm: VW® ATF
- Adapter - M12 x 1.5mm x 83mm: Mercedes-Benz® with 722.9 7G Tronic Transmission
- Adapter - 45° x 142mm: General
- Adapter - 1/8" NPT x 118mm: Ford® ATF
- Pressure Hose: All



### PBT71196 MASTER RATCHET PUMP KIT

- Specifically designed for differential and transmission service
- Converts either your 3/8" drive air ratchet or cordless drill into a fluid transfer pump
- Quick-couple fittings allow easy hose changes and no-drip storage
- Blow-moulded case for convenient storage



### BT500A COMBUSTION LEAK TESTER KIT

### BT700A BLOCK TEST FLUID

### BTD600 COMBUSTION LEAK FLUID FOR DIESEL ENGINES

- Quickly detects the presence of combustion gases in the radiator
- Indicate combustion leaks when the fluid turns from blue to yellow

#### INCLUDES:

- Block Tester
- Vacuum Hose
- 16-oz. Bottle of Test Fluid



### PBT80020 QUICKDIAL 2-WAY DIAGNOSTIC PUMP

- 2-Way pressure and vacuum test functions
- Intuitive rotary dial mode switch
- Pistol grip with lever
- High volume efficiency in both pressure and vacuum mode
- Manufactured from fiber reinforced composite materials
- Very high strength
- High impact resistance
- Excellent chemical resistance
- Integrated rear mount gauge
- Optimum viewing angle
- Maximum impact protection
- High-quality silicon material hoses with quick couple hose fittings
- Quick hose interchange
- No leaks under vacuum or pressure
- Custom blow mold storage case
- Maximum pressure: 30psi
- Maximum vacuum: 28 in Hg
- Stroke volume: 1 cubic inch (16cc)
- Pump weight: 20.1 ounce



### PBT80021 FLUID COLLECTION CONTAINER

- Bleed fuel systems fast
- Bleed diesel fuel systems quickly and easily after filter replacement
- Connect to the PBT80020 QuickDial 2-Way Pump and operate vacuum mode to easily transfer fluids
- Use to bleed brake systems, bleed fuel systems after filter replacement and evacuate power steering systems
- Overfill protection - Fitted with overfill shut-off valve
- Lightweight and high chemical resistant manufacture from high strength composite materials
- Handsfree operation - features a hanging hook to conveniently operate pump and move the suction hose
- Maximum vacuum: 28 in. Hg
- Container volume: 500ml



### TPS344 EXHAUST AND TAILPIPE STRETCHER

- Stretches all types of exhaust pipes including stainless steel
- Use with impact wrench to quickly stretch pipes for connection
- Two collet sets fit pipes from 1-5/8" to 2-7/16"
- Can be used on the car



### MT770A TAILPIPE AND EXHAUST CUTOFF

- 19mm diameter cutting wheels on every pivot
- Cuts thick and thin walled pipe from 3/4" to 3-1/4" (19mm to 83mm) in diameter
- 1/4 turn for complete cut



### C38350 EXHAUST PIPE HANGER PLIERS

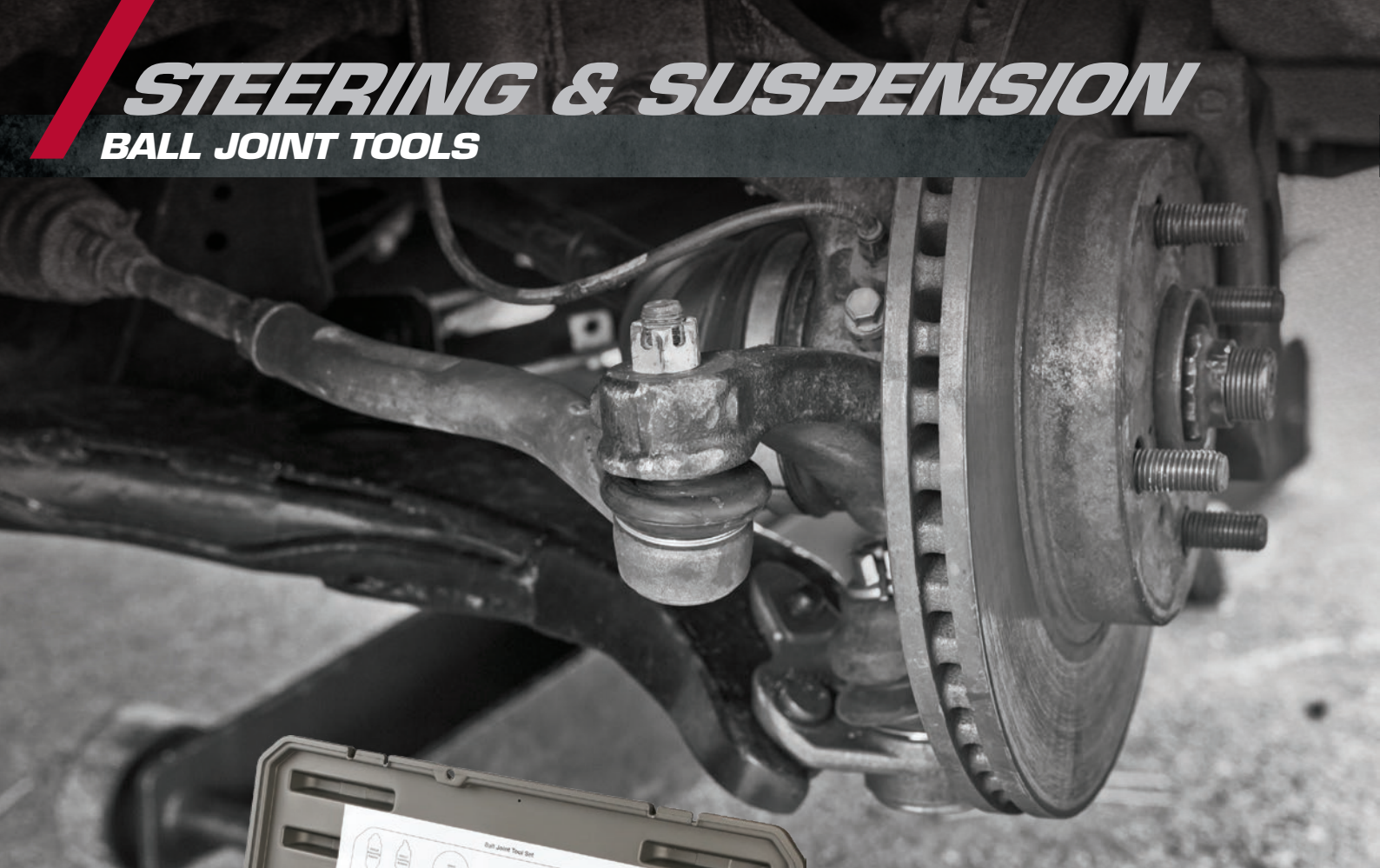
- Separates exhaust hanger brackets from rubber supports





# STEERING & SUSPENSION

## BALL JOINT TOOLS



### BJ530 BALL JOINT SUPER 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



### BJ7025MA BALL JOINT / U-JOINT PRESS

- Removes and installs pressed-in ball joints and U-joints

#### INCLUDES:

- 1 x Receiver Tube: 3" O.D. x 2-3/4" I.D.
- 1 x Receiver Tube: 2-1/2" O.D. x 2-1/4" I.D.
- 1 x Receiver Tube: 2" O.D. x 1-3/4" I.D.
- 1 x C-Frame
- 2 x Adapter Plates
- 1 x Blow-Moulded Case

# STEERING & SUSPENSION

## TIE ROD TOOLS

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### UJP904 AUTOMOTIVE U-JOINT PULLER

- For disassembling seized U-joints in minutes on many cars, light-duty trucks and farm machinery
- Eliminates vise-and-socket or hammering methods
- Reduces risk of damage to the driveshaft, yokes, joints or bearing cups
- For U-joints with bearing cups 1" to 1.25" outside diameter



### UJP907 INTERMEDIATE U-JOINT PULLER

- Heavy-duty solution for disassembling U-joints, including many which are seized and stubborn, in minutes on many Class 7 and 8 trucks and machinery
- Engineered for use with up to a 1" impact tool
- Alternative to vice and socket, or hammering removal methods
- Helps to prevent damage to the driveshaft, yokes, joints, or bearing cups
- One-piece unit without bolts, cables, or assembly required



### HCP650A REMOTE-ACCESS HOSE CLAMP PLIERS

- Locking feature frees hand
- Extra long reach for removal and installation of hard-to-reach hose clamps
- Fits hose clamps from 11/16" to 2-1/2" (18mm to 54mm)
- Precision-machined clamp at the end reaches where other pliers can't



### HCPR1 REMOTE ACCESS HOSE CLAMP PLIERS

- Unique jaw design fits all typical automotive clamps up to 2" (50mm)
- Ratchet lock with slide guide Bi-material grips with cable snap feature extra-heavy duty 5/64" (2mm) cable
- Hose Clamp Pliers with flexible cable for remote access
- Works on the widest range of hose clamps



### HC16200 3 PIECE MOBEA HOSE CLAMP LOCK TOOL SET

- Designed to help technicians save time when removing and servicing engine hoses that are fastened with spring style clamps
- There are three sizes of clamp locks included in this kit, covering the range of hose clamps used on most engines
- No need to either unload a clamp, which can be difficult to reload, or leave pliers locked in place for the duration of the job
- Allows technicians to keep the clamp loaded, freeing up pliers for the next clamp



### KC18A HOSE CLAMP PLIERS

- For applying and removing spring clamps
- Recess in jaws grips spring
- Eliminates slip or twist



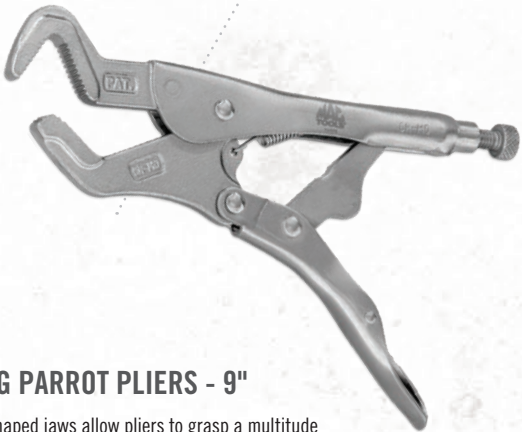
# STEERING & SUSPENSION

## ALIGNMENT TOOLS



**TR899**  
**MULTI-PURPOSE RACK WRENCH**

- Services hex drive rack ends and round rack ends with either two or no flats
- Suits multiple rack ends and sizes
- Use on vehicles with limited access to avoid need to remove rack assembly
- Prevents damage to rack components
- Clamp force increases as load is applied



**PARP9**  
**LOCKING PARROT PLIERS - 9"**

- Unique shaped jaws allow pliers to grasp a multitude of objects, regardless of shape
- Ideal for standard fasteners, suspension components, tie rods, and rounded off bolts



**TR6275A**  
**TIE ROD / PITMAN ARM ADJUSTING TOOL SET**

- For compact or full size cars and light trucks
- Permits 360° rotation of adjusting sleeve
- Leverage easily applied by 1/2" ratchet or breaker bar

PRODUCT #	DESCRIPTION	SLEEVE DIAMETER	APPLICATION	SET
TR6275A	Tie Rod / Pitman Arm Adjusting Tool Set			
FT-86A	Tie Rod/Pitman Arm Adjusting Tool	3/4"	Compact Cars	•
FT-86B	Tie Rod/Pitman Arm Adjusting Tool	7/8"	Full Size Cars	•
FT-86C	Tie Rod/Pitman Arm Adjusting Tool	1-1/8"	Light Trucks	•
FT-86D	Tie Rod/Pitman Arm Adjusting Tool	1-7/16"	Ford® 3/4-Ton	•
FT-86E	Tie Rod/Pitman Arm Adjusting Tool	1-13/16"	Ford® 3/4-Ton and 1-Ton Trucks	•

# STEERING & SUSPENSION

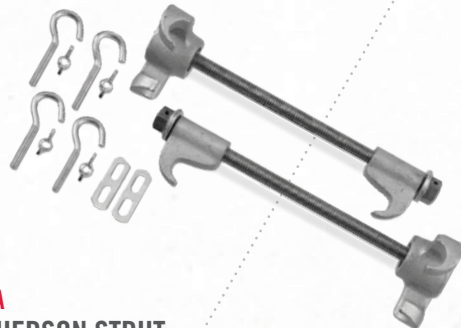
## ALIGNMENT TOOLS

11



**PFK4150A**  
**5 PIECE STEPPED PICKLE FORK KIT**

- Ideal kit for separating ball joints, steering dampeners, tie rods, Pitman arms, and other heavy-duty chassis and suspensions
- Stepped fork design greatly reduces bounce back during heavy use
- Complete set includes three stepped forks and two handles; one for hammering and one for use in an air hammer (.401" shank)
- Heavy-duty steel alloy forks withstand abuse and can be sharpened over the life of the tool



**MS629A**  
**MACPHERSON STRUT SPRING COMPRESSOR**

- Centre screw uses ACME threads for strength and ease of operation

# STEERING & SUSPENSION

## STEERING TOOLS



**PSPKITA**  
**POWER STEERING PUMP PULLEY REMOVE AND INSTALL SET**

- Remove and install a wide range of pulleys on Ford®, GM®, VW®, and Chrysler® vehicles with Saginaw, Thompson, and Ford® C111 and C2 power steering
- Includes adapters and spacers to install pulleys exactly to the right depth, from old Chrysler® alternators, to the latest models in all brands





**GG53HD**  
HEAVY-DUTY SINGLE  
SHOT AIR GREASE GUN

- Heavy-duty composite body
- Comfortable cushion-grip
- 3-Way loading (bulk, 14-oz. cartridge, filler pump)
- Bleeder valve for purging unwanted air
- 2 ml Output per stroke
- 3600 psi Output pressure
- 40:1 Ratio



**GG63HD**  
CONTINUOUS  
SHOT AIR GREASE GUN

- Heavy-duty cast aluminium body for durability and long life
- Cushion-grip for comfort
- 3-Way loading (Bulk, 14-oz. cartridge, or filler pump)
- 288 ml/min of Output per stroke
- 3600 psi Output pressure
- 40:1 Ratio



**GS19HD**  
HEAVY-DUTY SUCTION GUN

- Heavy-duty 1.7mm thick seamless barrel with textured finish
- 12" Clear flexible tube
- Heavy-duty T-handle with finger grooves for easy use
- Capacity: 16-oz.



**GG33HD**  
HEAVY-DUTY PISTOL-GRIP  
GREASE GUN

- 16-oz. Bulk fill - 14-oz. Standard cartridge
- 3-Way filling (bulk, cartridge, filler pump)
- Heavy-duty flexible 18" nylon hose and 6" metal spout for easy use
- Heavy-duty 1.7mm thick seamless barrel to avoid dents
- Aluminium head reduces the weight for easier use



**GG43HD**  
HEAVY-DUTY LEVER  
GREASE GUN

- 16-oz. Bulk fill - 14-oz. Cartridge
- 3-Way filling (bulk, cartridge, filler pump)
- Heavy-duty 1.7mm thick seamless barrel with textured finish
- ACME threads machined in barrel for better seal
- Aluminium head reduces the weight for easier use
- Cushioned lever for comfort
- Heavy-duty T-handle with finger grooves for easy use

- INCLUDES:**
- Heavy-Duty Flexible 12" Nylon Hose
  - 6" Metal Spout



**GGA8B**  
8 PIECE GREASE ADAPTER SET

- All adapters utilize quick couplers
- Blow-moulded case

PRODUCT #	DESCRIPTION	SET
GGA8B	8 Piece Grease Adapter Set	
GGA810	Hypodermic Needle Coupler	•
GGA820	Seal-Off Dispenser	•
GGA830	Narrow Needle-Nose Dispenser	•
GGA840	3" Straight Needlepoint Coupler	•
GGA850	Needlepoint Coupler Right Angle	•
GGA860	Right Angle Tight Tolerance Coupler	•
GGA870	Grease Coupler	•
GGA880	16" Rubber Grease Hose with Spring Guard and 4-Jaw Coupler	•

NOTES

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