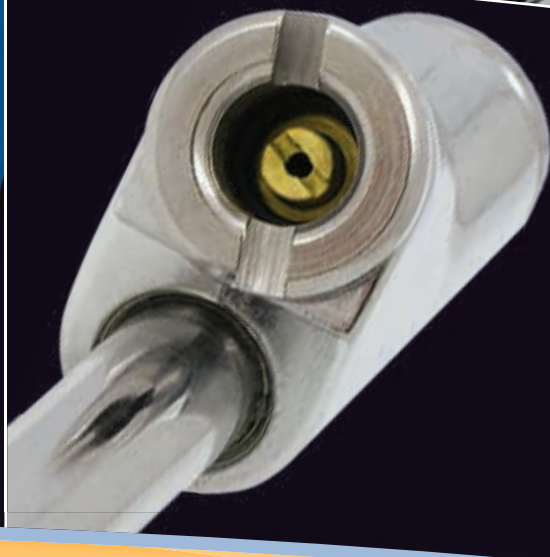
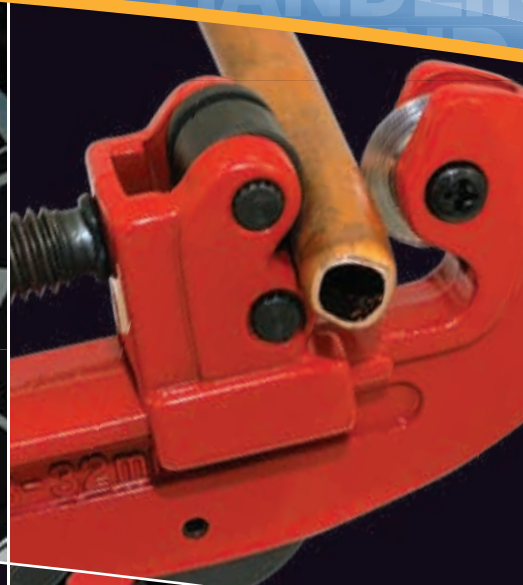


# JET



## SPECIALTY AUTOMOTIVE TOOLS





### Vancouver – HEAD OFFICE

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**Phone:** 604-444-5300  
**Toll Free:** 1-800-472-7685  
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**(Moving Winter, 2010)**



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### Halifax

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Dartmouth, NS B3B 1M2  
**Phone:** 902-468-8324  
**Toll Free:** 1-800-472-7686  
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**Toll Free Fax:** 1-877-468-3461

For over 50 years JET Equipment & Tools Ltd. – a 100% Canadian owned and operated company, has been supplying a broad range of professional quality tools and equipment to professional users. We are one of Canada's fastest growing suppliers of tools and equipment to the automotive, industrial, rental and construction industries.

Our product range includes: professional hand tools, air tools, lifting and shop equipment, abrasives, material handling equipment and specialty tools. JET products are designed and manufactured to the highest standards to meet the needs of professional users in all industries. We are constantly adding new and innovative tools that contribute to performance and productivity improvements and offer our users savings of time, effort and money.

We provide fast efficient service to the Canadian market from 6 warehouses - Vancouver, Edmonton, Winnipeg, Toronto, Montreal, Halifax. All JET products are supported through a network of coast-to-coast warranty depots.

JET's ever-increasing market share supports our philosophy that quality products, strong field and technical support, and superior customer service are key to building a successful business over the longer term. We thank our customers – past, present and future, for their continued support as we pursue our mission to become Canada's One-Stop-Shop for professional quality tools and equipment.

For the name of an authorized JET distributor near you, please contact any of our JET call centres.





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## Selected **NEW** PRODUCTS!

**Ford™ Spark Plug Thread Repair Kit**  
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**Ford Triton Spark Plug Shield Extractor Kit**  
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**Ford™ Triton Spark Plug Porcelain Extractor Kit**  
pg. 61



**Trim Panel Removal Tool Set**  
pg. 69



**Pry Bar Removal Tool Set**  
pg. 69



**Refractometer – Fluid Tester**  
pg. 57



**Flexible Hose Clamp Pliers**  
pg. 32



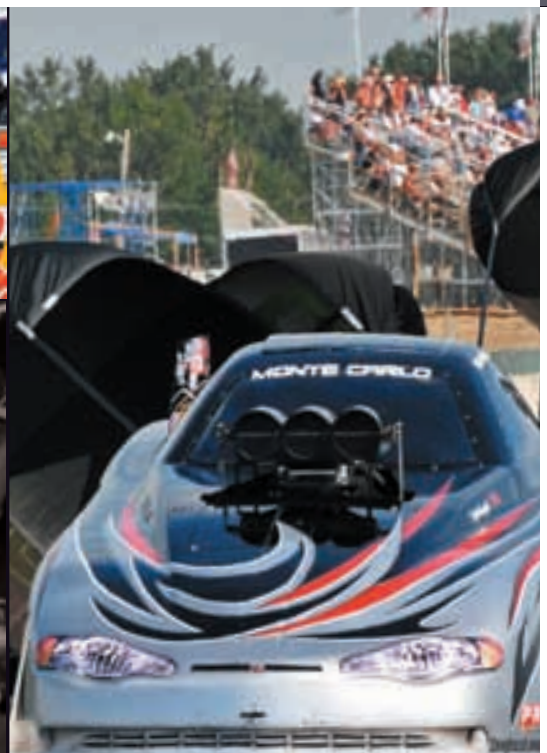
**Scraper with Extended Arm**  
pg. 53



*John Evanchuck and crew chief Bill Moore warm up the Red Wolf Funny Car.*

**THAT'S RIGHT!** All of these great Canadian racing teams use **JET Professional Tools** on and off the track. They know that in the heat of the battle, winning teams demand tools that stand up to the extreme conditions of championship drag racing. No other motorsport in the world requires race teams to perform complete engine and even entire race car teardown / rebuilds between every pass (this often has to be accomplished in

a compressed time frame of under 75 minutes). Talk about pressure! And whether it's wrenching on a 7,000 hp top fuel dragster, a 230 mph **Pro Mod** door car or your stock weekend warrior, **JET** has the quality and range of tools to get the job done – every time! In the fast paced world of drag racing, there is no room for second best. That's why winning teams use **JET Professional Tools** – shouldn't you?







1



2



3



4



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6



7



8



9



10

# JET IS PROUD TO SPONSOR THESE GREAT CANADIAN RACE TEAMS

- 1 Ashley Bart  
NHRA Top Alcohol Dragster
- 2 Wayne Hofer – West Coast Pro Mod Association
- 3 Rob Atchison – 3X IHRA Alcohol Funny Car World Champion
- 4 Dave Warren/Dave Richardson  
Canada West Doorslammer Association
- 5 Terry Langdon Davies – Canada West Doorslammer Association
- 6 John Evanchuck – NHRA / IHRA Top Alcohol Funny Car
- 7 Kenny Lang – 2009 IHRA Pro Mod World Champion
- 8 Friesen Motorsports / Roger Bateman – NHRA Top Alcohol Funny Car
- 9 Tim Nemeth  
NHRA Top Alcohol Funny Car
- 10 Friesen Motorsports/Roger Batema – NHRA Top Alcohol Funny Car



All photos courtesy Bill Jeffery and Speedzone Magazine

## BRAKE SERVICE



H1051

### H1051 **BRAKE SHOE SPRING TOOL**

- This compact rugged tool will remove and replace brake return springs on most cars
- Bendix spring remover on one end and installer on the other
- Lustre plated for rust protection
- Heat-treated for long wear



H1085

### H1085 **BRAKE ADJUSTING TOOL**

- Ground and tapered for easy access to most applications
- Lustre plated for rust protection
- Blade width: 5/8"
- Length: 9"



H1107

### H1107 **SHORT BRAKE ADJUSTING TOOL**

- This short length tool is ideal for tight spots
- Curved and ground for universal use
- Lustre plated for rust protection
- Blade width: 1/2"
- Length: 7"



H1096

### H1096 **SHOE RETAINING SPRING TOOL DUAL SIZE FOR DISH TYPE WASHERS**

- Used for removing the dish type washer on brake shoe hold down spring
- Knurled cup securely grips washer
- Notched for washer with ears
- Fits many imports with smaller hold down springs
- Plastic handle
- Bright lustre plated
- Range: 5/8" - 7/8" diameter washers



H3449

### H3449 **BRAKE SPRING TOOL**

- Designed to remove and install the brake return spring on most import vehicles
- Also works on some domestic vehicles that don't use an anchor pin
- Place tip of tool on the spring and turn the handle to lock on spring
- Expand spring to remove or install
- Length: 9"



H1103

### H1103 **BRAKE SPRING PLIER**

- Removes and installs brake springs on majority of cars and trucks
- Forged from alloy steel and heat-treated for long wear
- Designed with narrow points for inline pull on the springs
- Equipped with special bendix socket on one end
- Length: 13"



# BRAKE SERVICE

## H3070

### REAR DISC BRAKE PISTON TOOL

- Designed to rotate the parking brake activated piston back into the caliper cylinder when replacing worn brake pads on vehicles equipped with four wheel disc brakes
- Will work on most Ford™, Chrysler, some GM models, and most imports

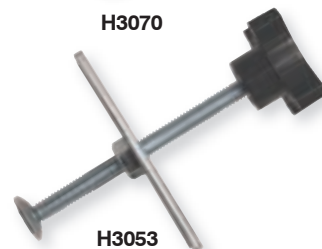


H3070

## H3053

### DISC BRAKE PAD SPREADER

- For quick and easy disc brake pad changes on most passenger cars and light duty trucks
- Construction allows spreader to compress inner pad and reset piston for faster, easier installation



H3053

## H3333

### DUAL DISC BRAKE PAD SPREADER

- For single and dual piston calipers

#### Applications:

- G.M. single and double piston brakes on front wheel drive cars
- Ford™ cars except those with twist back calipers (usually on the rear)
- Some flat bed heavy duty trucks (box trucks)
- Chrysler products (Intrepid and Sebring)



H3333

## H3457

### DISC BRAKE LINING WEAR GAUGE

- Designed to measure the remaining brake lining on bonded brake pads, from 1/16" - 5/8" in 1/32" increments
- Check remaining brake lining without removing caliper



H3457

## H3132

### LINING CLEARANCE GAUGE

#### Brake Drum to Lining

- Used to determine the proper clearance between brake lining & drum prior to assembly
- Inside calipers measure drum diameter
- Outside calipers transfer measurements to brake shoes
- The knurled wheel locks measurement in inches or metric calibration during use
- Services all import & domestic cars and light trucks with **brake drums 6-1/4" - 14"**



H3132



# BRAKE SERVICE

## TUBE BENDERS & CUTTERS



H1118

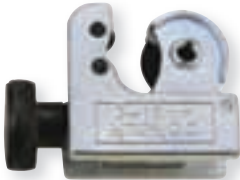
### H1118 **TUBE CUTTER**

- Designed to cut soft copper and steel brake tubing
- Will cut close to a flared end for minimum waste
- Cutter wheel is made of tool steel for long life
- Built in reamer blade folds back out of the way when not in use
- **Cuts copper pipe up to 1-1/8" O.D.**

**Replacement Cutter Wheel:**

**739191** - Copper, brass, aluminum & thin wall steel tubing

**739193** - Stainless Steel



H1179

### H1179 **MIDGET TUBING CUTTER**

- Cut copper tubing in close quarters
- Cutter will turn on 1-5/8" radius
- **Cuts copper tubing 1/8" - 5/8" O.D.**

**Replacement Cutter Wheel:**

**739191** - Copper, brass, aluminum & thin wall steel tubing

**739193** - Stainless Steel



H1278

### H1278 **TUBE BENDER**

- Bend thin wall tubing 360° with this heavy duty bender
- For use in automotive, plumbing, heating, refrigeration and marine applications
- **Range: 1/8" - 1/2" O.D. tubing**



H3135

### H3135 **4-IN-1 TUBING BENDER**

- Holds tubing securely in grooves
- Features heavy duty offset handle and smooth aluminum grooved mandrel
- **Bends 3/16", 1/4", 5/16", 3/8" diameter thin wall tubing without kinking**



H3342

### H3342 **PLIER TYPE TUBE BENDER**

- Bends copper or steel tubing without kinking or collapsing
- Comes with two roller adaptors
- **Bends 3/16", 1/4", 5/16", 3/8" tubing**



# BRAKE SERVICE

## FLARING TOOL KITS

### H1120 **LE\***

#### S.A.E. DOUBLE FLARING TOOL KIT

- Built to provide the necessary pressure to double flare steel brake tubing
- Will double and single flare both copper and steel tubing
- Double flare adaptors provided for 3/16", 1/4", 5/16", 3/8", 1/2", 7/16", 5/8" tubing
- Alloy steel swivel is heat-treated, ground, and chromed to reduce compression friction
- Yoke and bar is forged and tempered for added strength

**Kit Includes:**

<b>H1120A</b>	Double Flare Adaptor	<b>3/16"</b>
<b>H1120B</b>	Double Flare Adaptor	<b>1/4"</b>
<b>H1120C</b>	Double Flare Adaptor	<b>5/16"</b>
<b>H1120D</b>	Double Flare Adaptor	<b>3/8"</b>
<b>H1120E</b>	Double Flare Adaptor	<b>1/2"</b>
<b>H1120F</b>	Bar Assembly	
<b>H1120G</b>	Yoke & Bolt Assembly	
<b>H1120H</b>	Wing Nut	
<b>H1120J</b>	Double Flare Adaptor	<b>7/16"</b>
<b>H1120K</b>	Double Flare Adaptor	<b>5/8"</b>



H1120 / H1121

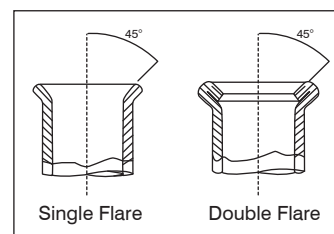
### H1121 **LE\***

#### METRIC DOUBLE FLARING TOOL KIT

- Same features as above kit but for metric size tubing
- Both kits will do single and double flares

**Kit Includes:**

<b>H1121A</b>	Double Flare Adaptor	<b>4.75 mm</b>
<b>H1121B</b>	Double Flare Adaptor	<b>5 mm</b>
<b>H1121C</b>	Double Flare Adaptor	<b>6 mm</b>
<b>H1121D</b>	Double Flare Adaptor	<b>8 mm</b>
<b>H1121E</b>	Double Flare Adaptor	<b>10 mm</b>
<b>H1121F</b>	Bar Assembly	
<b>H1121G</b>	Yoke & Bolt Assembly	



### H1502 **LE\***

#### I.S.O. BUBBLE FLARING TOOL KIT

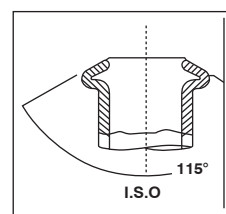
- Front wheel drive cars and light trucks, both foreign and domestic, are installing the I.S.O. (International Standards Organization) sized steel brake lines with the I.S.O. flare. This is different from the standard double flare
- Accomplishes the I.S.O. flare without removing the brake line from the vehicle, and it has the strength to withstand the pressure necessary to flare mild steel tubing (1.0mm wall thickness) used on the front wheel drive brake line
- Yoke is made of a heat treated, alloy steel drop forging, with a special patented center screw
- Bar assembly is hardened and will hold up under repeated use and produces a smooth, consistent flare
- Set is complete with Flaring Tool, four special adaptors, a chamfering tool and a combination wrench and height gauge

**Kit Includes:**

<b>H1502A</b>	Adaptor	<b>4.75 mm</b>
<b>H1502B</b>	Adaptor	<b>6 mm</b>
<b>H1502C</b>	Adaptor	<b>8 mm</b>
<b>H1502D</b>	Adaptor	<b>10 mm</b>
<b>H1502E</b>	Bar Assembly	
<b>H1502F</b>	Yoke Assembly	
<b>H1502G</b>	Reamer	
<b>H1502H</b>	Wrench	



H1502



# BRAKE SERVICE

## BRAKE HONES



**H1840**  
3/4" Stones



**H1844**  
1-1/8" Stones

### H1840 **LE\*** DISC BRAKE HONE

- Full range hone 3/4" to 2-1/2" diameter, flexible drive and adjustable cutting tension.
- Offers fast, easy cutting with high or low speed drills
- Strongly built, self-aligning and centering
- Built to bottom in blind holes or resurface step-cylinders

**Replacement Stones:**

<b>H1844D</b>	Set of 3		
	<b>Medium</b>	<b>220 Grit</b>	
	<b>Stone Length</b>	<b>3/4"</b>	

### H1844 **LE\*** BRAKE CYLINDER HONE

- Same features as above

**Replacement Stones:**

<b>H1844B</b>	Set of 3		
	<b>Medium</b>	<b>220 Grit</b>	
	<b>Stone Length</b>	<b>1-1/8"</b>	

### H1841 **LE\*** SMALL BRAKE CYLINDER HONE

- For sub-compact cars, including imports
- For cylinder bores 1/2" to 2-1/2" diameter
- Offers fast, easy cutting with high or low speed drill
- Self-aligning, self-centering flex joint drive. Adjustable tension

**Replacement Stones:**

<b>H1841A</b>	Set of 2		
	<b>Medium</b>	<b>220 Grit</b>	
	<b>Stone Length</b>	<b>1-1/8"</b>	

### H1864 **LE\*** DEGLAZING HONE FOR SMALL ENGINES

- Sturdily built flexible drive shaft permits easy access to all cylinders
- Cone expansion adjusts hone to cylinder wall with uniform pressure
- Adjustable spring tension lets you select desired pressure
- 1/4" drive shaft fits standard air and electric drills
- Range is 1" - 3" cylinder diameter. No extensions required
- Supplied with 180 grit 2" stones recommended for quick, positive seating of all piston rings

**Replacement Stones:**

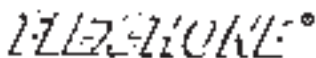
<b>H1864C</b>	Set of 3			<b>Optional Stone Set:</b>	
	<b>Coarse</b>	<b>180 Grit</b>		<b>H1844E</b>	Set of 3
	<b>Stone Length</b>	<b>2"</b>		<b>Medium</b>	<b>220 Grit</b>
				<b>Stone Length</b>	<b>2"</b>



**H1864**  
2" Stones



# BRAKE SERVICE



## FLEX-HONES FOR BRAKES & SMALL CYLINDERS

### BC TYPE

- For Brake Cylinders, Hydraulics Valve Guides, Lifter Bores
- 4 mm - 3/16" dia. are 6" OAL
- Over 3/16" are 8" OAL

#### Typical Applications Include:

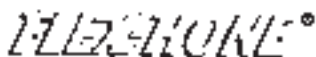
- Air Compressors
- Hydraulic Ram Cylinders
- Hydraulic Valve Bodies & Valve guides
- Hydraulic Motor Bodies
- Pneumatic Cylinders
- Surface Finishing of Boiler Parts
- Compressed Air Tool Bodies
- Brake Cylinders (Wheel)
- Clutch and Brake Master Cylinders
- Finishing of Stainless Steel Tubing
- Engine Cylinders and Block Liners

### DBC TYPE

- For Disc Brakes
- 5" OAL

### HONING OIL

An appropriate honing oil is recommended, use sparingly. Clean cylinder walls thoroughly after honing. On hydraulic cylinders use hydraulic brake fluid or non-petroleum water-soluble lubricant.



## FLEX-HONE FOR DISC BRAKE ROTORS

- They break up the spiral grooves left on new and re-turned brake rotors
- Produce a "swirl" or cross hatch pattern and a non-directional finish that reduces braking noise and lowers harmonic vibrations
- 1/4" mandrel
- Use in low speed 3/8" drill motor while rotor is turning on brake lathe
- Can also be used on flywheels

#### Available in these grits:

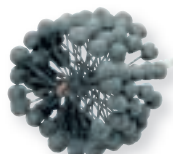
H2023	Coarse	60 Grit
H2024	Medium	120 Grit
H2025	Fine	240 Grit

See Page 28 for a complete list of FLEXHONES and product descriptions.

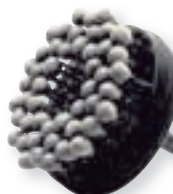
Silicon Carbide Type & Diameter	180 Grit	240 Grit	320 Grit
BC 4mm (.157")	H2040C		
BC 4.5mm (.177")	H2041C		
BC 3/16" (.187")	H2042C		
BC 5mm (.197")	H2043C	H2043D	
BC 5.5mm (.217")	H2044C		
BC 6.4mm (1/4")	H2012C	H2012	
BC 7mm (9/32")	H2013C	H2013	
BC 8mm (5/16")	H2014C	H2014	
BC 9mm (.113/32")	H2015C	H2015	
BC 9.5mm (3/8")	H2016C	H2016	
BC 10mm (13/32")	H2017C	H2017	
BC 11mm (7/16")	H2018C	H2018	
BC 12mm (.472")	H2045C	H2045D	
BC 1/2" (12.7mm)	H2046C	H2046D	H2046A
BC 14mm (.532")	H1471		
BC 5/8" (16mm)	H1472	H1472D	
BC 18mm (.709")	H1473		
BC 3/4" (19mm)	H2047C	H2047D	H2047A
BC 20mm (.787")	H1475		
BC 7/8" (22mm)	H1738	H1738D	
BC 1" (25.4mm)	H1673	H1673D	
BC 1-1/8" (29mm)	H1739	H1739D	
BC 1-1/4" (31.8mm)	H1641		
BC 1-3/8" (35mm)	H1740		
BC 1-1/2" (38mm)	H2048C		
BC 1-5/8" (41mm)	H1372		
BC 1-3/4" (45mm)	H2049C		
BC 2" (51mm)	H1741	H1741D	
BC 2-1/4" (57mm)	H1700		
BC 2-1/2" (64mm)	H1701		
BC 2-3/4" (70mm)	H1702		
BC 3" (76mm)	H1703		
DBC 1-1/2" (38mm)	H1809C		H1809A
DBC 1-3/4" (45mm)	H1804		H1804A
DBC 2-1/8" (54mm)	H1805		H1805A
DBC 2-1/2" (64mm)	H1806		H1806A
DBC 2-3/4" (70mm)	H1808	H1808D	H1808A
DBC 3-1/8" (79mm)	H1807	H1807D	H1807A



BC Type



DBC Type



Select grit according to roughness of rotor and desired finish.

Reduce brake job comebacks due to braking noise and vibrations.

We recommend rotor be Flex-Honed dry. (no lubricant)

# BRAKE SERVICE



H1437

## H1437 **ONE-MAN BRAKE BLEEDER**

- Use to bleed brake lines by gravity. Simply attach to the loosened bleeder screw
- All air bubbles are moved from hose by pumping brake pedal
- See-through tube for visual check of fluid
- Complete with easy to follow instructions



H3527

## H3527 **2-WAY VACUUM PUMP / BRAKE BLEEDING KIT**

- A complete kit for testing cooling system temperature ranges, leaks, & sensors
- Fluid valve pump resists most automotive fluids (except gasoline)
- 2 way vacuum pump provides both in & out flows for versatile applications
- **Pumps approximately 1 cubic inch per stroke and holds about 25" of mercury vacuum**
- Easy-to-read gauge for quick and simple usage
- Comes in a convenient blow mould storage case

**Kit includes:**

- 2-way Heavy Duty Vacuum Pump
- Fluid Resistant Valve Pump
- Easy Reading Gauge
- Reservoir Jar
- Transfer & Storage Lids
- Rubber Cup Adaptor
- Tubes
- Brake Bleeding Kit & Accessories



H3502

## H3502 **DELUXE VACUUM PUMP / BRAKE BLEEDER KIT**

- Check vacuum operated components on all vehicles including distributor advance mechanism, heater and air conditioning baffles, PCV & EGR valves, headlight cover doors, transmission modulators and more
- Also allows for a one-man brake bleed operation

**Kit includes:**

- Fluid resistant Valve Pump
- Easy reading Gauge Head
- Reservoir Jar
- Transfer & Storage Lids
- Rubber Cup Adaptor
- Two-2" Lengths of Tubing
- Brake Bleeding Adaptors for most vehicles

**H3502-10** Gauge Head

**H3502-11** Bleeder Cup & Caps

**H3502-12** Adaptor Kit

**H3502-13** Pump Seal Kit



H3444

## H3444 **DISC BRAKE CALIPER TOOL SET**

- Used to install new brake pads by winding the piston back into the caliper
- May be used "on" or "off" the vehicle
- Piston retraction is completed smoothly without damaging the piston or boot
- Includes 9 adaptors for use on 2 and 4 wheel rear disc brake assemblies
- Designed for use with Mercedes, BMW, Volkswagen, GM, Audi, Ford™, Honda, Subaru, Mazda, Nissan, Mitsubishi, Toyota, Land Rover, and 4 wheel drive vehicles
- Comes in convenient blow mould storage case

# BEARING & BUSHING

**H3047**

## WHEEL BEARING PACKER

- For use with grease guns. Works on all wheel bearings having a **minimum I.D. of 1/2" to a maximum O.D. of 5". Height of 1/4" - 2"**
- Place bearing between cones and tighten. Old grease is forced out as new grease is pumped in under pressure
- Use hand or power equipment



H3047

**H3455**

## EASY SQUEEZE BEARING PACKER

- Repack bearings in less time with less mess!
- No air hose or grease gun needed
- **Packs 50 - 65 cage-type roller and ball type bearings, up to 3-1/2" O.D. x 2" I.D. with one filling**
- Cup made from transparent impact-resistant Lexan material for easy grease level check



H3455

**H3437**

## 10 PC BEARING RACE & SEAL DRIVER SET

- Inserts bearing race and seals quickly, straight and without damaging both race and axle housings on the first try
- Collars fit most standard wheel bearing sizes
- Comes in convenient blow mould storage case

**Kit includes:**

- 9 Disc Sizes: **1.565", 1.750", 1.965", 2.325", 2.470", 2.555", 2.830", 2.995", 3.180"**
- 1 Heavy Duty Driver Handle



H3437

**H3538**

## 18 PC UNIVERSAL DRIVER SET

- Includes most popular size drivers for proper installation of seals, bearings, bushings
- Ensures even distribution of force to all areas and prevents cocking
- Comes in convenient blow mould storage case

**Kit includes:**

- **12 Drivers: 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-5/8", 1-3/4", 1-7/8", 2"**
- 1 Handle
- 4 Cap Screws
- 1 Hex Key



H3538

**H3543**

## 23 PC BUSHING REMOVER & INSERT KIT

- Use to remove & replace bushings on passenger vehicles, buses, trucks, farm, road and construction equipment
- Double-end disc sizes range from 3/8" x 7/16" - 1-1/4" x 1-3/8" diameter in 1/16"
- Comes in convenient blow mould storage case

**Kit includes:**

- Double-ended Discs  
**Range: 3/8" x 7/16" - 1-1/4" x 1-3/8" diameter, in 1/16" increments**
- 3 Drivers
- Nuts



H3543



# SUSPENSION / DRIVE TRAIN



H3533

## H3533 **LE\*** 7 PC FRONT WHEEL DRIVE AXLE NUT SOCKET SET

- Sockets made of high quality, Chrome Molybdenum steel for best performance and life
- **Sockets are 1/2" drive** and are extra long in order to adequately access FWD spindle nuts
- May be used with air and electric impact wrenches, ratchets, flex and breaker bars and with torque wrenches
- Comes in convenient blow mould storage case

**Kit includes:** All 7 popular sizes that fit most FWD axle nuts as outlined below

## FRONT WHEEL DRIVE AXLE NUT SOCKETS (OPEN STOCK)

- H3149** **L** 29 mm • services late model GM, Ford™ and Asian imports including the Escort and Fiesta
- H3150** **L** 30 mm • services GM "A", "J", "N" and "X" body cars and some Asian imports
- H3151** **L** 32 mm • services late model Honda and Chrysler cars
- H3152** **L** 34 mm • services late model GM, Buick, Cadillac, Chevy, Oldsmobile and Pontiac cars
- H3308** **L** 35 mm • services many late model GM cars
- H3153** **L** 36 mm • services GM "E" style cars
- H3309** **L** 38 mm • services a variety of full size vehicles including many SUV's



H3542

## H3542 **LE\*** 6 PC 4WD SPINDLE LOCKNUT SOCKET SET

- Used to remove/install 2 & 4 wheel drive light truck spindle/bearing nuts
- Heavy-duty construction, made from Chrome Vanadium heat-treated steel
- Includes 4WD spindle removing socket tool
- Includes Toyota locknut socket tool
- Includes 3 step 4WD spindle remover tool
- Sockets are 1/2" square drive and are designed for use with ratchets, flex and breaker bars, and torque wrenches
- **NOTE:** Do not use with air or electric impact tools
- Comes in a convenient blow mould storage case

**Kit includes:**

- 6 most popular 4WD spindle locknuts as follows: **H1486**, **H3107**, **H3405**, **H3406**, **H3601**, **H3604** (see open stock for specifications and applications)

## 4WD SPINDLE LOCKNUT SOCKETS (OPEN STOCK)

### H3107 **L** 4 PIN 2-3/8" OUTER STYLE LOCKNUT SOCKET

- 1986 to current Ford™ Bronco & Ranger with Dana44 axles
- 1960 to current 1/2 ton Chevrolet & GMC
- 1966 to current Bronco, Blazer & Scout
- 1959 to current Ford™ 100-250 series
- 1969 to current Dodge 1/2 ton vehicles

### H1486 **L** 6 PIN 2-5/8" OUTER STYLE LOCKNUT SOCKET

- 1978 to current Ford™ 4/4 ton vehicles
- 1973 to 1981 GM 3/4 ton vehicles

### H3406 **L** 4 PIN 2-1/4" INNER STYLE LOCKNUT SOCKET

- 1960 to current 1/2 ton Chevrolet & GMC
- 1966 to current Bronco, Blazer & Scout
- 1959 to current Ford™ F150-250 series
- 1969 to current Dodge 1/2 ton vehicles

### H3604 **L** 3 STEP 4WD SPINDLE REMOVER TOOL

- Pulls out 4WD spindles for lubricating the inner needle bearing and front wheel alignment
- Fits common 1/2 & 3/4 ton 4WD pickup spindles
- 3 step design fits 1-1/2", 1-5/8" and 2" spindles
- Use with 1/2" - 20 or 5/8-18 thread slide hammer

### H3405 **L** 4 PIN 2-3/4" OUTER X 1-9/16" STYLE LOCKNUT SOCKET

- 1985 to late Ford™ F250-350 truck rear axle with Hi-Shear rotating nut and Ford™ Dana 80 truck rear axles

### H3601 **L** 4 PIN (TOYOTA) STYLE LOCKNUT SOCKET

- Toyota 1995 & newer Tacoma, 1996 & newer T100 & 4-Runner



H3107 2-3/8"

H1486 2-5/8"

H3406 2-1/4"

H3604

H3405 2-3/4"

H3601

# SUSPENSION / DRIVE TRAIN

## 4WD SPINDLE LOCKNUT SOCKETS (OPEN STOCK)

### H3407

#### 4 PIN 2-1/2" INNER STYLE LOCKNUT SOCKET

- Used on 1/2 and 1 ton 4WD vehicles



H3407 2-1/2"

### H3445

#### 2-IN-1 SPINDLE LOCKNUT SOCKET

- Two tools in one - combines H3107 4 pin 2-3/8" outer style and H3405 4 pin 2-3/4" outer x 1-9/16" style locknut tool (see page 14 for applications)
- 1/2" drive located internally. Can be used with ratchet, flex bar, breaker bar or torque wrench with a 3" or greater extension
- Use a torque wrench when installing



H3445

## CHRYSLER BALL JOINT SOCKETS

- Use to remove and install SCREW-IN type ball joints
- Made from heat treated chrome vanadium steel

**H3618**  3/4" DR x 1-59/64" x 2" Long Used on mid-size, rear-wheel drive, Chrysler cars

**H3620**  3/4" DR x 2-9/64" x 2" Long Used on Chrysler / Dodge light trucks and vans



H3618/H3620

## TRUCK WHEEL BEARING LOCKNUT SOCKETS

- Specially designed sockets used for the quick and easy removal of truck wheel bearing locknuts
- Made from high quality steel which resists "rounding out"
- Available in 6 point hexagon, 8 point octagon and special "rounded" shape for Dana axles
- All sockets are 3/4" drive
- For use with manual ratchets, flex and breaker bars, and torque wrenches
- **NOTE:** Do not use with any air or electric impact tools

### 6 POINT HEXAGON STYLE

H2150	2-3/32"	H2157	3-1/4"
H2169	2-1/4"	H2159	3-1/2"
H2151	2-3/8"	H2186	3-3/4"
H2170	2-1/2"	H2161	3-7/8"
H2153	2-9/16"	H2163	4"
H2171	2-5/8"	H2164	4-1/8"
H2172	2-3/4"	H2165	4-3/8"
H2179	2-7/8"	H2167	4-7/8"
H2155	3"		



6 Point Hexagon



8 Point Octagon

### 8 POINT OCTAGON STYLE

H2152	2-3/8"	H2188	3-3/4"
H2154	2-9/16"	H2176	3-13/16"
H2156	3"	H2162	3-7/8"
H2158	3-1/4"	H2166	4-3/8"
H2160	3-1/2"	H2168	4-7/8"



6 Point "Rounded" Hexagon

### SPECIAL "ROUNDED" HEXAGON STYLE

- These special "rounded" hex truck wheel bearing locknut sockets are used on Dana axles

H2180	2-3/8"	H2177	2-9/16"
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## SUSPENSION / DRIVE TRAIN



H3540

### H3540 5 PC FRONT END SERVICE SET

- Complete front end service tool kit for easy removal of most pitman arms, tie rods & ball joints
- Includes a press type separator for ball joint removal without damage to boots and other parts
- An absolute must for all front end service shops
- Comes in convenient blow mould storage case

**Kit includes:**

- H1926** Pitman Arm/Tie Rod End Puller
- H3609** Pitman Arm Puller
- H3612** Tie Rod/Inner Bearing Race Puller
- H3614** Ball Joint Separator
- H3616** Ball Joint/Tie Rod End Remover

(See open stock for specifications and applications.)

### FRONT END SERVICE TOOLS (OPEN STOCK)

- All front end service tools are heavy duty, drop forged steel, heat treated



H1902

### H1902 BALL JOINT SEPARATOR

- Removes ball joints from connecting links.
- Just a few sharp blows with a hammer and the tapered prongs easily separates the parts
- **Opening: 15/16"**    **Length: 12"**



H1907

### H1907 TIE ROD END SEPARATOR

- Removes tie rod ends from connecting links
- Just a few sharp blow with a hammer and the tapered prongs easily separates the parts
- **Opening: 21/32"**    **Length: 16"**



H1926

### H1926 PITMAN ARM / TIE ROD END PULLER

- For use on small cars having smaller pitman arms and tie rod ends
- Can also be used for rack and pinion steering removal
- **Opening: 1-1/16"**    **Pull: 1-3/4"**



H3609

### H3609 HEAVY DUTY PITMAN ARM PULLER

- Specially designed jaws fit the job and ensures firm grip
- **Extra wide opening of 1-3/8"**
- **Pull 3-1/2"**



H3612

### H3612 BALL JOINT / TIE ROD ARM REMOVER

- Swivel centering pin ensures a strong, positive pull
- Tool directly attaches to stud for easy and convenient use
- Fits most front wheel drive vehicles and light trucks
- **Opening: 3/4"**
- **Pull: 1-1/2"**



# SUSPENSION / DRIVE TRAIN

## FRONT END SERVICE TOOLS (OPEN STOCK)

### H3614 UNIVERSAL PRESS FIT BALL JOINT SEPARATOR

- Heavy duty "scissor" design suits most cars and light trucks
- Easily separates press fit ball joints
- 2-stage height adjustment feature uses a heat treated steel pin thrust bolt and steel ball insert, allowing quick and easy height adjustment changes
- The combination of the "scissor" design and the 2-stage height adjustment offers maximum versatility
- Can be used on most press fit ball joint applications



H3614



H3616

### H3616 OUTER TIE ROD REMOVER PULLER

- The adjustable jaw can spread to match tie rods of various sizes
- This tool removes the outer tie rod from the steering knuckle
- The custom designed jaw tips ensure maximum grip and withstands up to 5 tons of pulling force!
- The use of this mechanical screw puller ensures an evenly distributed pulling force, eliminating damage to existing parts
- Ideal for use on import and domestic cars with front and rear wheel drives with stamped or cast steel steering knuckles
- **Opening: 0 to about 7"      Pull: 4"**

### H3448

#### 5 PC PICKLE FORK KIT

- A multi-purpose kit that features all the tools required to separate most ball joints, tie rods, pitman arms and shock absorber links
- 3 heavy duty forks are made from drop forged, heat treated steel
- 2 drive handles are made from alloy steel – one handle for use with regular hammers, the other features a .401 shank for use with most popular air hammers
- Forks can be used with either drive handles
- Pilot head designed handles absorb shock and protect threads from distortion

#### Kit includes:

- |   |                |               |
|---|----------------|---------------|
| • Tie Rod Separator                           | <b>Opening</b> | <b>11/16"</b> |
| • Ball Joint Separator                        | <b>Opening</b> | <b>15/16"</b> |
| • Pitman Arm Separator                        | <b>Opening</b> | <b>1-1/8"</b> |
| • Alloy Handle - for use with regular hammers | <b>Length</b>  | <b>8"</b>     |
| • For use with popular air hammers            | <b>Shank</b>   | <b>.401</b>   |



H3448

### H3061 LE\*

#### 4 PC INNER TIE ROD REMOVAL SET

- The tool kit contains everything necessary to directly remove and install the inner tie rod without the hassles of removing the steering gear
- Works on most inner tie rod structures
- Made of heavy duty alloy steel, black oxide finish
- Comes in convenient blow mould storage case

#### Kit includes:

### H3060 SOCKET ADAPTOR

- This tool features a double ended "stepped" socket
- **1-3/16"** hex fits primarily Ford™ (FWD) and Renault
- **1-5/16"** hex fits primarily GM, AMC, Chrysler and Ford™ (RWD).
- 1/2" Square Drive

### H3071 DUAL INNER TIE ROD TOOL

- **1-7/16"** adaptor for GM and Chrysler cars with Saginaw steering gear
- Use with **H3060** Dual Inner Tie Rod Tool

### H3071A DUAL INNER TIE ROD TOOL

- **1-3/16"** adaptor used on Ford™ FWD vehicles with rack & pinion steering and modern inner tie rods.
- Use with **H3060** Dual Inner Tie Rod Tool

### H3071B DUAL INNER TIE ROD TOOL

- **1-5/16"** adaptor used on Ford™ RWD and most Chrysler vehicles with rack & pinion steering and modern inner tie rods
- Use with **H3060** Dual Inner Tie Rod Tool.



H3071

H3061



H3060

### H3408

#### UNIVERSAL TIE ROD TOOL

- Adjusts tie rods on most vehicles with split tie rod sleeves
- Double end feature makes a 360° turn in confined areas
- Fits most cars and light trucks with split tie rod sleeves



H3408

# SUSPENSION / DRIVE TRAIN



H3536

## H3536 MASTER BALL JOINT ADAPTOR SET

- This master set covers most press-fit vehicle joint components
- Heavy duty master set is used to service the removal/installation of ball joints, universal joints, truck brake anchor pins and 4WD ball joints
- C-frame alone can be used to remove/replace universal joints
- Tool can remove rusted and corroded parts
- An expanded version of our H3537 4-in-1 ball joint service set
- Comes in convenient blow mould storage case

### Kit includes:

- Heavy duty C-frame and forcing screw (1.106" x 7 threads per inch)
- All components listed in our kit H3537 and all the receiver tubes and receiving/installation adaptors to work on press fit upper and lower ball joints on most Dodge Ram, Ford™, GM, IHC and Jeep 2 and 4 wheel drive pick-up trucks, SUV's and vans (auto's with Dana 44 front axles)



H3537

## H3537 4-IN-1 BALL JOINT SERVICE SET

- For press-fit vehicle joint components
- Heavy duty, four function set to service the removal/installation of ball joints, universal joints, truck brake anchor pins & 4WD ball joints
- Both ball joint and 4WD ball joint service can done without taking the control arm off
- U-joint service can be performed on needle type u-joint bearings
- Truck anchor pin service can be performed with pins up to 1-1/4" diameter
- Services 4WD ball joint equipped vehicles including those vehicles with Dana44 front axles such as 1967 to current 1/2 ton & 3/4 ton Dodge, GM, Ford™, IHC, Jeep
- Tool will even remove rusted and corroded parts
- C-frame alone can be used to remove/replace universal joints
- Comes in convenient blow mould storage case

### Kit includes:

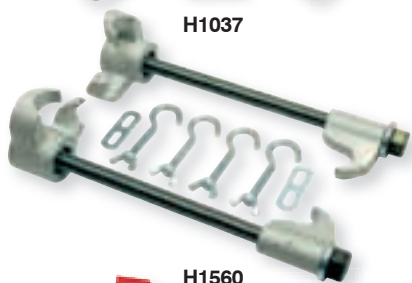
- Heavy Duty C-Frame and Forcing Screw (1.106" x 7 threads per inch)
- Installation and Removal Adaptors
- Installation Cup Adaptor
- Receiving and Installation Cups
- **3 Receiver Tubes: 2-3/4" x 2-1/4", 2-1/4" x 1-3/4", 1-3/4" x 1-3/4"**



H1037

## H1037 COIL SPRING CLAMPING KIT

- Remove, install and compress coil springs that can be reached through the center of the coil
- Single turning action on center shaft.
- This kit can be used on standard models and converts easily to compact models
- **Maximum spring diameter: 5-5/8"**
- **Maximum coil thickness: 3/4"**



H1560

## H1560 MACPHERSON STRUT TOOL

- Allows you to quickly compress the coil spring to replace shock absorbers, spring sets, repair bent strut or strut tube and repair damaged spindle
- Designed to be used on virtually all modern domestic and imported vehicles that use MacPherson struts
- Do not use on GM "A", "J", or "X" body cars or coil springs that exceed a 6" outside diameter



H3315

## H3315 DELUXE MACPHERSON STRUT TOOL

- Similar design and function as H1560 but has built-in detent pins to help lock the coil in place eliminating the need for extra safety hooks. Set up is faster and easier. Improved design
- Comes in convenient blow mould storage case

# SUSPENSION / DRIVE TRAIN

## H3396 UNIVERSAL SHOCK ABSORBER TOOL SET

- Removes/installs shock nuts on most cars and trucks
- Includes shock nut and two stem tools



## H3452 LE\* GM 10 STRUT TOOL

- Directly removes and installs oil filled or gas charged strut cartridges through the strut tower while attached to the vehicle
- Double ended spanner socket used as a jounce bumper retainer wrench or strut cap nut wrench
- T50 Torx® bit socket allows access to the strut by removing the top strut nut without winding the strut rod. No damage is imposed upon strut components during use
- Includes moulded storage case

**Applications:** GM10 models, 1988-current Buick Regal, Grand Prix and Cutlass Supreme, 1999 - current Chevrolet Lumina



## H3541 LE\* 2 PC COIL SPRING COMPRESSOR SET

- Used to compress coil springs
- Designed to go through the center of the coil spring
- The hooks fasten to the top of the coil spring
- Insert the fork through the lowest coil possible
- Comes in a convenient blow moulded case

 **CAUTION:** Compressed coil springs are extremely dangerous  
Protect yourself and bystanders at all times



## H1084 L C.V BOOT CLAMP PLIER

- For earless type clamps
- Ratchet will lock for easy use



## H1088 L CV BOOT CLAMP PLIER

- For eared type clamps
- Unique design allows user to clamp ring and then use a torque wrench in 1/2" square drive holes in handle to accurately set clamp
- Plunger can be de-activated





# ENGINE TEST EQUIPMENT



H1730

### Replacement Valve Cores

Most Compression tester failures are due to worn or dirty valve cores. DO NOT REPLACE WITH TIRE VALVE CORES, as incorrect reading will result. Valve cores for all JET Compression Tester:

- H1734K Package of six (H1726, 30, 31, H3041)
- H1845G Diesel Tester (H1845)



H1731



H3042



H1343

## H1730 COMPRESSION TESTER WITH QUICK DISCONNECT FLEXIBLE HOSE

- The most popular type in use today
- The heavy duty neoprene hose bends in all directions to reach hard to get at cylinders
- Handy side release valve allows multiple readings on the same cylinder without removing the tester from the cylinder
- Hose assembly will disconnect easily from the gauge head to allow more flexibility and easier installation into spark plug holes

### Replacement Parts:

- H1730B Quick Coupler
- H1730C Hose Assembly - 8-1/4" with **14 & 18mm Adaptors**, Long Reach Adaptor 14mm (use H1730D)
- H1730D Long Reach Adaptor: **14mm**
- H1734O Release Valve Assembly
- H1734X Gauge Head (H1730, H1731, H1726, H3041)
- Accessories: **Gauge Range** **0-300 lbs./square inch**
- H1730E Adaptor **10mm** **0-21 kg/square cm.**
- H1730F Adaptor **12mm**
- H1730H Adaptor **16mm** Ford™ Triton Engines

## H1731 COMPRESSION TESTER

- Same features as H1730 without quick disconnect flexible hose.
- Handy side release valve allows multiple readings on the same cylinder without removing the tester from the cylinder.

- Accessories: **Gauge Range** **0-300 lbs./square inch**
- H1730E Adaptor **10mm** **0-21 kg/square cm.**
- H1730F Adaptor **12mm**
- H1730H Adaptor **16mm** Ford™ Triton Engines

## H3042 CYLINDER LEAK DOWN TESTER

- Tests for worn or broken rings, defective intake and exhaust valves, scored or cracked cylinders, leaky head gaskets and worn or stripped spark plug threads by measuring the amount of compressed air held in an engine cylinder
- Easy to use on all 2 and 4 cycle gasoline and diesel engines
- Dual gauges allow you to monitor input air line pressure up to 100 psi
- Unit has precision pressure regulator to adjust pressure in cylinder to "set" area on regulator gauge
- Regulator gauge will read percentage of leak down in cylinder while the input pressure gauge assures that input pressure is steady

### Replacement Parts:

- H3042A Gauge Head
- H3042B Regulator
- H3042C Leakage Gauge
- H3042D Hose Assembly - 11-1/4" with **14 & 18mm Adaptors**, Long Reach Adaptor 14mm (use H1730D)

### Accessories:

- H1730E Adaptor **10mm**
- H1730F Adaptor **12mm**
- H1730H Adaptor **16mm** Ford™ Triton Engines
- H3042K Diesel Adaptor Hose - 15-1/2"

- Use of this hose allows the tester to be used on diesel engines with adaptors

## H1343 HIGH PRESSURE & VACUUM TESTER

- Higher operating pressures require a larger capacity pressure gauge to test the system
- Test for fuel line pressure & vacuum leaks. Check for leaky valves, timing, fuel pump vacuum, pressure and more
- Dual scale, easy to read dial with heavy duty gauge movement
- Hose length: 36-1/2"

Pressure Range: **0-60 psi, 0-4 kg/cm<sup>2</sup>**

Vacuum Range: **0-30 in., 0-76 cm HG**


# ENGINE TEST EQUIPMENT

## H1726 POCKET COMPRESSION TESTER

- This quality, accurate tester has an angle construction tip to permit easy reading on back cylinders
- Gauge Range: 0 - 300 lbs. psi, 0 - 21 kg per square cm**

**Replacement Parts:**

- H1734X** Gauge Head (H1730, H1731, H1726, H3041)
- H1734K** Valve Cores (pkg. of six)
- H1734D** Cone 10mm - 18mm

 **CAUTION: Do not use on tire valve cores.**



H1726

## H1728 VACUUM & PRESSURE TESTER

- This top quality 2-1/2" chrome plated vacuum tester aids diagnosis of engine problems such as sticky valves, timing, carburetion, faulty fuel pump, and other vacuum-operated devices
- Hose length: 36"
- Brass adaptor fitting provided

**Pressure Range 0 - 15 psi, 0 - 1 kg/cm<sup>2</sup>**

**Vacuum Range 0 - 30 in., 0 - 76cm HG**

**Replacement Parts:**

- H1728A ** Gauge Head

 **CAUTION: Do not use on fuel injected vehicles.**



H1728

## H3041 OIL PRESSURE TESTER

- Check oil pressure in automatic transmissions and engines
- Adaptors used on most domestic and imported cars and light trucks including late models
- Supplied with two gauges


**High Pressure Gauge – Calibrated from 0 - 300 psi, (0 - 21.0 kg/sq.cm)**

**Low Pressure Gauge – Calibrated from 0 - 100 psi, (0 - 7.0 kg/sq.cm)**

- Use high pressure gauge for all applications
- Use low pressure gauge for more accurate reading of engine oil pressure where maximum oil pressure does not exceed 100 psi. (7.0 kg/sq. cm)
- Comes in a durable vinyl pouch. Full instructions provided

**Note:** Do not use low pressure gauge to test automatic transmission pressure

**Replacement Parts:**

- H1734X** Gauge Head (H1730, H1731, H1726, H3041)
- H3041B ** Gauge Head 100 psi
- H3041C** Hose Assembly (6' oil proof hose)
- H3041D** 11 PC Adaptor Kit



H3041

## H3443 5 PC TRANSMISSION / TRANSAXLE PLUG SET

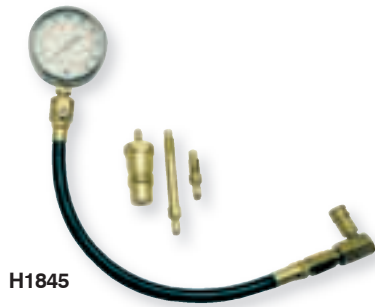
- Prevents loss of transmission fluid
- The plugs are custom designed to operate on transmissions and transaxles on most domestic and import vehicles when repairing the drive shaft assembly
- Stepped design prevents slipping out
- Adaptor (marked #5) includes side gear centering for Ford™ transaxles
- Plug adaptors may be purchased separately

**Range: 1" - 2.180" (25.4mm - 55.37mm)**



H3443

# ENGINE TEST EQUIPMENT



H1845

## H1845 **LE\*** DIESEL COMPRESSION TESTER

- For most diesel trucks and cars
- Supplied with three popular adaptor numbers 1845D, 1845E and 1845J
- Easy-to-read 2-1/2" diameter gauge head
- Flex hose with swivel head eliminates the need to remove auxiliary equipment such as power brakes and steering, air conditioning and manifold
- Quick side release valve to reset gauge without removal of adaptor

**Gauge Range: 0 - 1000 lbs. psi — 0 - 70 kg psi**

**Adaptors Available:**

- Listed by vehicle make
- Included in Kit\*
- See illustrations on next page

**Replacement Parts:**

- H1845A Hose Assembly 24-1/4"
- H1845B Gauge Head
- H1845C Quick Coupler
- H1845G Valve Core

Manufacturer	Engine	Type	Thread (in)	Adaptor
Allis Chalmers	6000, 7000, 10,000, 11,000	Injector		H1845P
Allix		Injector		H1845P
Audi	All	Injector	24 x 2.0	H1845E*
Audi	1.5, 1.6, 2.0, 2.6 LITRE	Glow Plug	12 x 1.25	H1845H
BedFord™	200, 220, 300, 330, 466	Injector		H1845P
BMW	2.4L	Glow Plug	12 x 1.25	H1845H
Case		Injector		H1845P
Caterpillar	3208, 110 Pencil Type	Injector		H1845FF
Caterpillar	D336, 1674, 1676,	Injector	7/8 x 14	H1845GG
Caterpillar	3406, 3408, 3412	Injector	7/8 x 14	H1845GG
Continental	W/Volvo Engines	Glow Plug	10 x 1.25	H1845M
Cummins	V-185, V-210, V225	Injector		H1845Q
Cummins	V-555, VT-255, VT-555	Injector		H1845Q
Cummins	H, HR, NH, NVH, V6, V8,	Injector		H1845Q
Cummins	V12, All 5.5 Bore	Injector		H1845Q
Cummins	NH and 903 V8 Cylindrical PTB	Injector		H1845Q
Cummins / Case "B"	2.9L, 3.9L, 5.9L	Injector	24 x 1.5	H1845Y
Cummins / Case "C"	8.3L	Injector		H1845DD
Datsun		Injector	24 x 2.0	H1845N
Detroit Diesel	53, 71, 92, 110, 149, V53, V71	Injector		H1845R
Dodge / Cummins	5.9L	Injector	24 x 1.5	H1845Y
Dodge / Cummins	Late model 5.9L ISB & QSB 24 valve	Injector		H1845-3
Flat Allis	8035-02-300, 8035-02-301	Injector		H1845P
Flat Allis	8035-02-302, 8045-02, 8045-03	Injector		H1845P
Ford™	2.0L	Glow Plug	10 x 1.25	H1845M
Ford™ / Escort		Glow Plug	10 x 1.25	H1845M
Ford™ / Lynx		Glow Plug	10 x 1.25	H1845M
Ford™ / Mazda	2.0L	Glow Plug	10 x 1.25	H1845M
Ford™ / Navistar	6.9, 7.3L	Glow Plug	10 x 1.0	H1845D*
Ford™ / Navistar	7.3L Turbo Diesel	Glow Plug	10 x 1.0	H1845KK
Ford™ / Navistar	7.3L Turbo Diesel	Glow Plug	10 x 1.0	H1845-2
Ford™ / Powerstroke	6.0L, 6.4L	Glow Plug	14 x 1.25	H1845-4
Ford™ Ranger	2.2L	Glow Plug	10 x 1.25	H1845M
Ford™ Tempo		Glow Plug	10 x 1.25	H1845M
Ford™ Topaz		Glow Plug	10 x 1.25	H1845M
Ford™ Toyo Kogyo	2.2L	Glow Plug	10 x 1.25	H1845L
Ford™ Tractors	21mm Bosch	Injector		H1845P
Ford™ / Mazda	2.0L	Glow Plug	10 x 1.25	H1845L
General Motors	4.3L V6 & V8, 5.7L V8	Glow Plug	10 x 1.0	H1845D*
General Motors	6.2L & 6.5L V8 True Diesel	Glow Plug	10 x 1.0	H1845J*
GMC Truck	W4, W7, W7HV	Glow Plug	12 x 1.25	H1845H
GMC Truck	6.6L	Glow Plug	10 x 1.25	H1845K
Hino	Medium	Glow Plug	12 x 1.25	H1845H
Int'l Harvester	6.9 L	Glow Plug	10 x 1.0	H1845D*
Int'l Harvester	D/DT361, D/DT429, DV462	Injector		H1845P
Int'l Harvester	DV/DVT550, DT/DV/DVT573	Injector		H1845P
Int'l Harvester	361, 407	Injector		H1845P
Isuzu Chevette	1.8L	Glow Plug	10 x 1.25	H1845K
Isuzu GM	1.8L, 2.2L	Glow Plug	10 x 1.25	H1845K
Isuzu/Luv	2.2L	Glow Plug	10 x 1.25	H1845K
Isuzu Truck	NPR, KS	Glow Plug	12 x 1.25	H1845H
J.I. Case	All Models Except Pencil Type	Injector		H1845P
J.I. Case	188, 207, CID, Pencil Nozzle	Injector		H1845FF
John Deere	Early 300, 400, 500 276	Injector		H1845FF
John Deere	Early 404, 532 CID	Injector		H1845FF
John Deere	404, 466, 531, 619	Injector		H1845P
Kubota	Some models	Glow Plug	10 x 1.25	H1845M
Kubota	Some models	Glow Plug	8 x 1.0	H1845-5
Land Rover		Glow Plug	14 x 1.25	H1845V
Lealand British		Glow Plug	14 x 1.25	H1845V
Lincoln, Mark VII	2.4L 1984 & 1985 cars	Glow Plug	12 x 1.25	H1845H



# ENGINE TEST EQUIPMENT

Manufacturer	Engine	Type	Thread (in)	Adaptor
Mack Truck		Injector		H1845P
Mack Truck	END 405, 457, 475, 510, 519	Injector		H1845P
Mack Truck	605, 672, 673, 674, 711, 864	Injector		H1845P
Mack Truck	END T673, 675, 676, 865, 866	Injector		H1845P
Massey Ferguson		Injector		H1845P
Massey Ferguson	4.203, 4.236, 4.248, 6.354, 8.540	Injector		H1845P
Mercedes	All with 24mm	Injector	24 x 2.0	H1845E*
Mercedes	All with 12mm	Glow Plug	12 x 1.25	H1845H
Mercedes	All with 18mm	Glow Plug	18 x 1.5	H1845F
Mercedes	All with 22mm	Injector	22 x 1.5	H1845HH
Mitsubishi	2 & 3 cylinder engines	Glow Plug	10 x 1.25	H1845M
Mitsubishi-Fuso	Medium	Glow Plug	10 x 1.25	H1845M
Mitsubishi-Fuso	Medium	Injector		H1845P
Navistar	DT360, DT466, 9.0L	Injector		H1845EE
Navistar	312, 360, 414, 436, and 466 C.I.D.	Injector		H1845EE
Navistar	6.9L, 7.3L	Glow Plug	10 x 1.0	H1845D*
Nissan	2.2L	Glow Plug	10 x 1.25	H1845M
Onan	DSL, MDSL	Injector		H1845P
Opel		Injector	22 x 1.5	H1845X
Peugeot	All 2.0 & 2.3L	Glow Plug	12 x 1.25	H1845H
Peugeot		Glow Plug	18 x 1.5	H1845F
Renault		Injector	24 x 2.0	H1845W
Renault		Injector	22 x 1.5	H1845X
Scania	DN11 & DS11	Injector		H1845P
Toyo Kogyo	2.2L	Glow Plug	10 x 1.25	H1845M
Toyota	1.8L	Glow Plug	10 x 1.25	H1845K
Toyota	2.2L	Glow Plug	10 x 1.25	H1845M
UD-Nissan Truck	Medium	Glow Plug	10 x 1.25	H1845M
Volvo	All	Injector	24 x 2.0	H1845E*
Volvo		Glow Plug	12 x 1.25	H1845H
VW	All	Injector	24 x 2.0	H1845E
VW		Glow Plug	10 x 1.0	H1845Z
VW		Glow Plug	12 x 1.25	H1845H
Waukesha	All	Injector		H1845P
White Farm	66, 77, 88, 99, 166, 177, 188, 199	Injector		H1845P
White Farm	550, 660, 770, 880, 950, 1550	Injector		H1845P
White Farm	1555, 1600, 1650, 1655, 1750	Injector		H1845P
White Farm	1755, 1800, D2000, 2300, 3000	Injector		H1845P
Wisconsin	340, 350, 430, 660, 670, 750	Injector		H1845P
Wisconsin	860, 1000	Injector		H1845P

## For Applications not Listed Above

**H1845S** - 1/8" N.P.T. Male Quick Coupler

This adaptor along with 1- **H1845G** Valve Core (thread size 12-36) can be used to make your required adaptor for engine not listed above. Remove internal mechanism from an old injector or glow plug from that engine, drill and tap to accept the quick coupler and valve core.

## ADAPTORS FOR DIESEL COMPRESSION TESTER



# ENGINE



H1723

## H1723 PISTON RING INSTALLER

- An inexpensive and easy-to-use tool. Insert the ring ends in wedge jaws and expand ring gently, then slip into groove. Ideal for easily removing rings without damage

- **Handles all piston rings from 3/64" - 1/4" wide**

### REDUCE RING SEATING FAILURES

- Compression rings should never be spiraled on the piston. This tool reduces ring point misalignment which can be detrimental to good piston ring sealing and engine performance



H1258 - H1941

## PISTON RING EXPANDERS

- Speeds up ring removal and installation - with minimum ring distortion

- Saves time and ring failures

- Made of steel, requires no adjustments

- Available in three sizes: for pistons 2" - 7" diameter

**H1258** For Rings **1-1/4" - 2-1/4" diameter**

**H1936** For Rings **4-1/2" - 7" diameter**

**H1941** For Rings **2-3/4" - 4-1/4" diameter**

**H1941S** Replacement Spring (for above 3 models)



H1129 - H3167

## CONEMASTER RING COMPRESSORS

- Wrap-around type compressors for installing pistons in most makes and models of engines, including canted block design

- Compressor band takes all rings at once, including skirt rings

- Self-locking heavy duty ratchet pawl

- Automatic friction brake with double tension band

**H1129** For Pistons **1-3/4" - 3" diameter** **2" band**

**H1134** For Pistons **2-1/8" - 5" diameter** **2-1/2" band**

**H1135** For Pistons **3-1/2" - 7" diameter** **3-1/2" band**

**H1138** For Pistons **3-1/2" - 7" diameter** **6-1/2" band**

**H3167** For Pistons **7" - 10" diameter** **3-1/2" band**



H1670

## H1670 RING-O-MATIC RING COMPRESSOR KIT

- Quick change design speeds up piston ring installation and increases production.

- The Ring-O-Matic pliers and bands are designed to operate in all positions, not just vertically or horizontally. Plier incorporates precision locking action for exact holding and quick release

### Kit includes:

**H1670A** Ring-O-Matic Plier

**H1670B** For Pistons **2-7/8" - 3-1/8"**

**H1670C** For Pistons **3-1/8" - 3-3/8"**

**H1670D** For Pistons **3-3/8" - 3-5/8"**

**H1670E** For Pistons **3-5/8" - 3-7/8"**

**H1670F** For Pistons **3-7/8" - 4-1/8"**

**H1670G** For Pistons **4-1/8" - 4-3/8"**

Larger bands available:

**H1670H** For Pistons **4-1/2" - 4-3/4"**

**H1670I** For Pistons **4-3/4" - 5"**

**H1670J** For Pistons **5" - 5-1/4"**

**H1670K** For Pistons **5-1/4" - 5-1/2"**

**H1670L** For Pistons **5-1/2" - 5-3/4"**

**H1670M** For Pistons **5-3/4" - 6"**

# ENGINE

## H3441 WRINKLE BAND RING COMPRESSOR

- The wrinkle band design greatly reduces ring friction. Rings slide easier
- Insert a full set of pistons quickly
- Features cam operated lever with thumbscrew. Adjust once for entire set of pistons

Range: 3" - 5", 76.2mm - 127mm



H3441

## H1025 MULTI BLADE GROOVE CLEANER

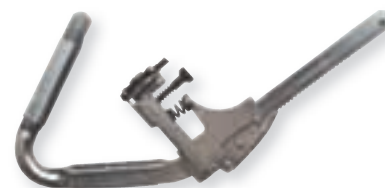
- Offers a one-piece blade arrangement for 1/16", 5/64", 3/32", 1/8" and 3/16" groove widths  
For other blade sizes order H1009A or H1706
- Narrow blades remove carbon from the grooves and wide blade trims ring land faces
- Depth guard control prevents blades from digging or catching in drilled holes in oil ring grooves

### Replacement & Accessories Blades:

**H1009** Replacement Groove Cleaner Blade for 1/16", 5/64", 3/32", 1/8", and 3/16" grooves

**H1706** Accessory Groove Cleaner Blade for 1/16" (2), 1/4", 5/16", & 3/8" grooves

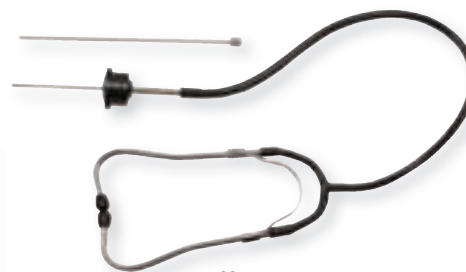
**H1009A** Accessory Metric Groove Cleaner Blade for 1.5mm, 2.5mm, 3mm, 4mm, 5mm grooves (for 2mm grooves use 5/64")



H1025

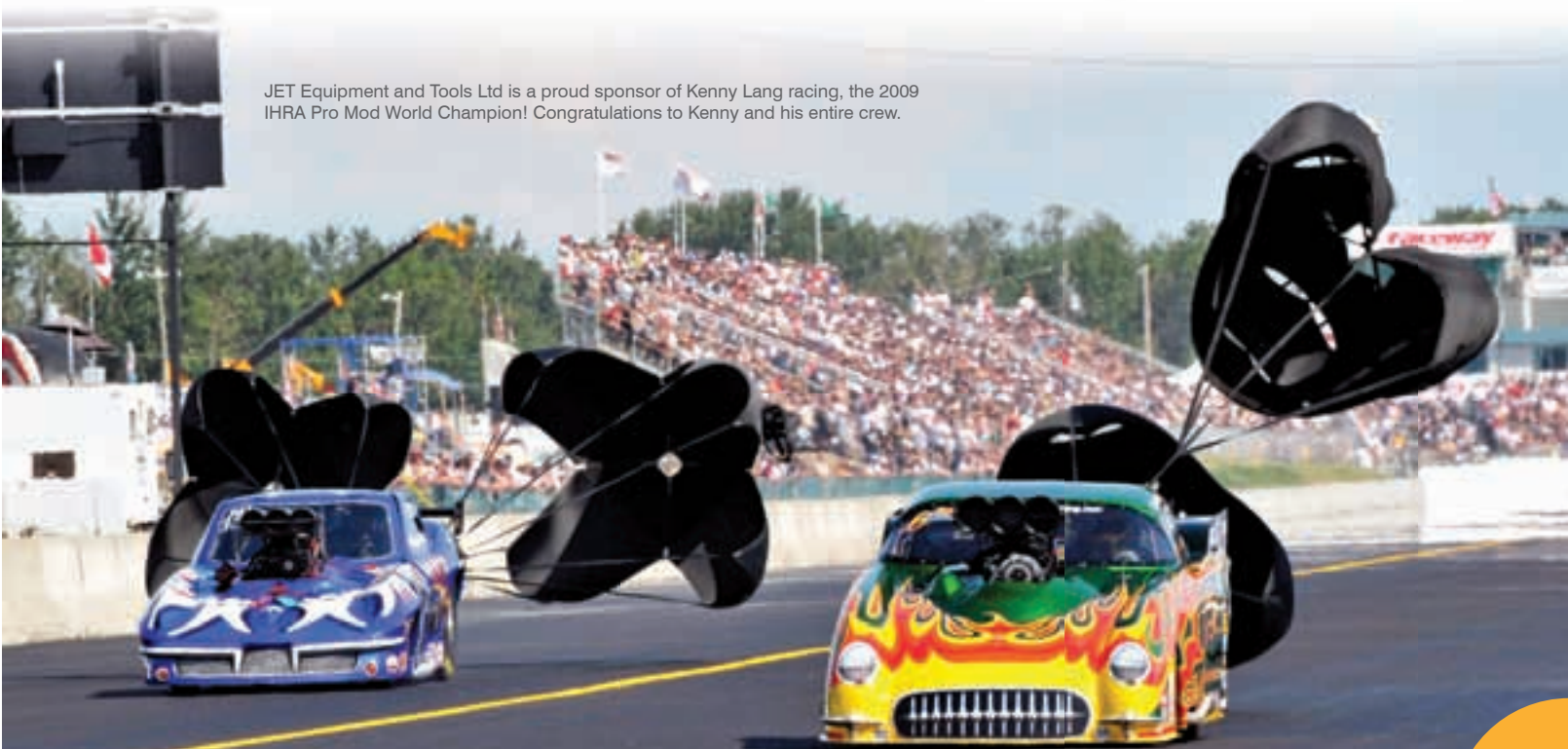
## H1262 MECHANIC'S STETHOSCOPE

- This sensitive instrument provides a fast and accurate method of locating troubles in engines and other moving parts
- The plastic ear phones shut out outside noises
- Probe the suspected areas to find the spot where the abnormal noise is concentrated
- A plastic handle protects user from shock



H1262

JET Equipment and Tools Ltd is a proud sponsor of Kenny Lang racing, the 2009 IHRA Pro Mod World Champion! Congratulations to Kenny and his entire crew.





# ENGINE



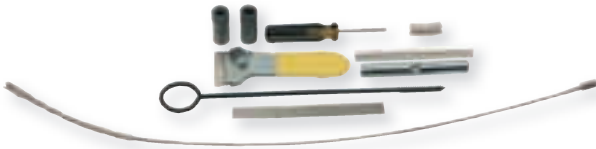
H3099

## H3099 FROST PLUG INSTALLER KIT

- Eliminates the necessity of removing heads and manifolds or cutting through the firewall to install frost plugs in most applications
- 18" handle with swivel collar

**Kit includes:**

<b>H3099A</b>	Adaptor	<b>3/4"</b>
<b>H3099B</b>	Adaptor	<b>1"</b>
<b>H3099C</b>	Adaptor	<b>1-1/4"</b>
<b>H3099D</b>	Adaptor	<b>1-1/2"</b>
<b>H3099E</b>	Adaptor	<b>1-3/4"</b>



H1483

## H1483 UPPER REAR MAIN SEAL KIT

- This handy kit eliminates the need to remove engine or crankshaft when replacing either wick or neoprene upper rear main bearing oil seals
- Comes complete with extractor for worn seals, stainless steel "Chinese Fingers" seal installer, two sizes of compressing guide funnels, packing punch, trimming knife, curve chaser die and self-aligning flat steel chaser



H1139

## H1139 CAM-WEDGE TYPE STUD REMOVER

- A compact and powerful tool that can fit into hard-to-reach places to loosen or tighten hard-to-turn studs
- The cam-wedge knurled roller assembly grips like a pipe wrench with added torque
- Made from high grade heat treated alloy steel. Zinc plated

**Range: 1/4" to 3/4" (6 to 19mm) diameter x 1/2" Sq. DR**

**CAUTION: Do not use with air or electric tools.**

**Replacement Part:**

**H1139B** Knurled Roller Assembly

Gripper roller assembly is designed to wear and is excluded from the warranty program



H1585

## H1585 RIDGE REAMERS

- This extra-sturdy, extra-durable ridge reamer will handle all modern engines with bores including canted and most short stroke types
- Tool sits solidly in the cylinder, with holding blades maintaining good wall contact for smooth cut. Cutter head guide plate locks on both sides
- Tungsten carbide Saf-T-Blade will not overcut, chatter or dig in
- Smooth cutting action of this ridge reamer is attained by fine-thread feed-up
- Accuracy is maintained by heavy, heat-treated center bolt
- Steel collar on center bolt protects threads from wrench damage
- Three position setting of spring-loaded cutter head permits change from one cylinder to another without adjusting cutter head assembly

• **Range 3" - 5"**

**H1591 Replacement Carbide Cutter** — for **H1585**



H1261

## H1261 RIDGE REAMERS

- Sturdy, dependable, accurate. Cutting blade follows cylinder wall under spring tension regardless of the shape of the bore
- Smooth cutting action is attained by manual thread feed-up
- Saf-T-Blade prevents over-cutting metal after the ridge is removed

• **Range 2" - 3"**

**Replacement Cutter** — for **H1261** Ridge Reamers

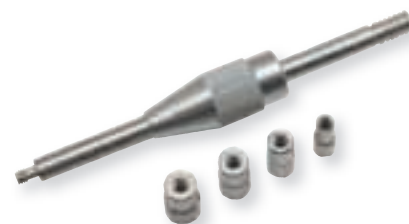
**H1059** Carbon Steel Saf-T-Blade

# ENGINE

## H1153 CLUTCH ALIGNING TOOL SET

- Standard and Metric sizes included
- Sizes will serve most major cars in use today. Designed for use on both domestic and imported passenger cars and light trucks
- Six two-step adaptors are included

<b>H1153A</b>	Handle	
<b>H1153B</b>	Adaptor	.388 (10mm) - .468 (12mm)
<b>H1153C</b>	Adaptor	.561 - .5881 (15mm)
<b>H1153D</b>	Adaptor	.624 - .6561
<b>H1153E</b>	Adaptor	.688 (17mm) - .748 (19mm)
<b>H1153F</b>	Pilot	



H1153

## H1391 FLYWHEEL TURNER

- A time saver. Eliminates crawling in and out from under car to turn motor
- Adaptable to any make of car, truck, bus or tractor
- Correct spring tension holds the turner fast to flywheel giving mechanic freedom of both hands
- Desired adjustments can be made easily from mechanic's working position under the car



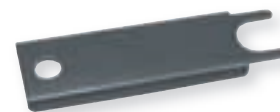
H1391

## H3435 CLUTCH COUPLING REMOVER

- Use to disengage the hydraulic line from clutch slave cylinder on some Ford™ manual transmissions.
- The tool prongs fit around the clutch line above the nylon sleeve

### Applications:

- 1989 and newer Mercury Cougars & Thunderbirds
- 1988 and newer small trucks including Explorer, Ranger and Bronco 2



H3435

## H1843 GLAZE BREAKER HONE

- 3 stone adjustable tensions
- Designed for fast accurate deglazing of cylinders
- Operated by any 1/4" - 1/2" electric drill
- Powerful arm design keeps the abrasives accurately in line
- Spring tension adjusting nut for positive cutting action at all speeds
- **Full range 2" - 7" (51-178mm) capacity** equipped with three 220 grit stones recommended for ring seating.

### Replacement Parts:

**H1843A** Replacement Stones (Set of 3) **Medium** 220 Grit 4" Long

### Accessory Stone Sets:

**H1843E** Set of 3 **Coarse** 100 Grit 4" Long

**H1843F** Set of 3 **Fine** 400 Grit 4" Long



H1843

## H1864 DEGLAZING HONE FOR SMALL ENGINES

- Sturdily built. Flexible drive shaft permits easy access to all cylinders
- Cone expansion adjusts hone to cylinder wall with uniform pressure
- Adjustable spring tension lets you select desired pressure
- Fits standard 1/4 inch drill. Range: 1" - 3" cylinder diameter. No extensions required
- Supplied with 180 grit 2" stones recommended for quick, positive seating of all piston rings

### Replacement Stone Set:

**H1864C** Set of 3 **180 Grit** 2" Long

### Optional Stone Set:

**H1844E** Set of 3 **220 Grit** 2" Long

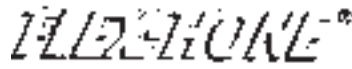


H1864

Sizes and Grits without Part No. are available on Special Order.  
Call Customer Service for price and delivery

Silicon Carbide Type & Diameter	120 Grit	180 Grit	240 Grit	320 Grit
BC 4mm (.157")		H2040C		
BC 4.5mm (.177")		H2041C		
BC 3/16" (.187")		H2042C		
BC 5mm (.197")		H2043C	H2043D	
BC 5.5mm (.217")		H2044C		
BC 6.4mm (1/4")		H2012C	H2012	
BC 7mm (9/32")		H2013C	H2013	
BC 8mm (5/16")		H2014C	H2014	
BC 9mm (11/32")		H2015C	H2015	
BC 9.5mm (3/8")		H2016C	H2016	
BC 10mm (13/32")		H2017C	H2017	
BC 11mm (7/16")		H2018C	H2018	
BC 12mm (.472")		H2045C	H2045D	
BC 1/2" (12.7mm)		H2046C	H2046D	H2046A
BC 14mm (.532")	H1471B	H1471		
BC 5/8" (16mm)	H1472B	H1472	H1472D	
BC 18mm (.709")	H1473B	H1473		
BC 3/4" (19mm)	H2047B	H2047C	H2047D	H2047A
BC 20mm (.787")		H1475		
BC 7/8" (22mm)		H1738	H1738D	
BC 1" (25.4mm)		H1673	H1673D	
BC 1-1/8" (29mm)		H1739	H1739D	
BC 1-1/4" (31.8mm)		H1641		
BC 1-3/8" (35mm)		H1740		
BC 1-1/2" (38mm)		H2048C		
BC 1-5/8" (41mm)		H1372		
BC 1-3/4" (45mm)		H2049C		
BC 2" (51mm)		H1741	H1741D	
BC 2-1/4" (57mm)		H1700		
BC 2-1/2" (64mm)		H1701		
BC 2-3/4" (70mm)		H1702		
BC 3" (76mm)	H1703B	H1703		
DBC 1-1/2" (38mm)		H1809C		H1809A
DBC 1-3/4" (45mm)		H1804		H1804A
DBC 2-1/8" (54mm)		H1805		H1805A
DBC 2-1/2" (64mm)		H1806		H1806A
DBC 2-3/4" (70mm)		H1808	H1808D	H1808A
DBC 3-1/8" (79mm)	H1807B	H1807	H1807D	H1807A
GB 3-1/4" (83mm)	H1733	H1733C		H1733A
GB 3-1/2" (89mm)	H1704	H1704C		H1704A
GB 3-3/4" (95mm)	H1734	H1734AA		H1734A
GB 4-1/8" (105mm)	H1735	H1735C		H1735A
GB 4-5/8" (118mm)	H1736	H1736C		
GBD 3" (76mm)	H1705	H1705C		
GBD 3 1/4" (83mm)	H1793	H1793C		
GBD 3 1/2" (89mm)	H1707	H1707C		
GBD 3 3/4" (95mm)		H1719C		
GBD 4" (101mm)	H1720	H1720C		
GBD 4 1/4" (108mm)	H1721B	H1721C		
GBD 4 1/2" (114mm)	H1801B	H1801		
GBD 5" (127mm)	H1737B	H1737		
GBD 5 1/2" (140mm)	H1803B	H1803		
GBD 6" (152mm)	H1798B	H1798		
GBD 6 1/2" (165mm)	H1794B	H1794		
GBD 7" (178mm)	H1799B	H1799		
GBD 7 1/2" (190mm)	H1848B	H1848C		
GBD 8" (203mm)		H1849C		
GBD 8 1/2" (216mm)		H2050C		

# ENGINE



## CYLINDER BORE FINISH TOOLS

With minimal stock removal and without damaging or changing the micro sub-structure of the metal, the Flex-Hone tool plateaus the surface, removes cut, torn and folded metal creating a cross-hatched finish that retains a film of oil, reducing friction, ring wear and the factors that lead to scuffing. In hydraulics and two-stroke engines there is the double benefit of radiusing the ports and finishing the cylinder walls in a single operation.

### FLEXHONE GRITS

We supply the standard grits in silicon carbide recommended by the manufacturer of Flex-Hone and Hastings Piston Ring Engineers. The BC 4-1/8" 320 grit (H1735A) is for use on racing engines. Flexhone grits cannot be compared to stone type grits.

#### BC Type

Brake Cylinders, Hydraulics Valve Guides, Lifter Bores

**4 mm - 3/16" diameter are 6" OAL**  
**Over 3/16" are 8" OAL**

#### Typical Applications Include:

- Air Compressors
- Hydraulic Ram Cylinders
- Hydraulic Valve Bodies & Valve Guides
- Hydraulic Motor Bodies
- Pneumatic Cylinders
- Surface Finishing of Boiler Parts
- Compressed Air Tool Bodies
- Brake Cylinders (Wheel)
- Clutch and Brake Master Cylinders
- Finishing of Stainless Steel Tubing
- Engine Cylinders and Block Liners

#### DBC Type Disc Brake

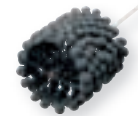
5" OAL

#### GB Type Standard Duty Block Cylinders

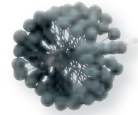
13-1/2" OAL

#### GBD Type Heavy Duty Block Cylinders

3" - 4-1/2" diameter are 13-1/2" OAL  
Over 4-1/2" are 17-1/2" OAL



BC Type



DBC Type



GB Type



GBD Type

For Engine & Valve Guide Hole Cleaning Brushes See Page 29.



# ENGINE

## FLUX HONE™ FOR VALVE GUIDES

- The Flex-Hone process allows you to precision fit valve stems to guide tolerances
- Self centering and aligning
- Self compensating for wear
- Provides plateau finish which creates proper lubrication
- Permits closer stem to guide clearance
- Also use for transmission valve bodies

**H2011 Kit includes:** one each of the following:

	Type	Size		Grit
H2012	GB	6.4mm	1/4"	240
H2013	GB	7.0mm	9/32"	240
H2014	GB	8.0mm	5/16"	240
H2015	GB	9.0mm	11/32"	240
H2016	GB	9.5mm	3/8"	240
H2017	GB	10mm	13/32"	240
H2018	GB	11mm	7/16"	240



## ENGINE / VALVE CLEANING BRUSHES

- For valve guides, oil galleries and lines
- Finest quality Dupont Tynex brushes
- Listed in order of overall length

	Qty. / Pack	Overall Length	Brush Length	Brush Diameter	Usage
H1774	1	10"	2"	1/4"	Valve Guides, Cam & Crankshaft
H1775	1	12"	2-1/2"	5/16"	Overhead Rocker Feed Lines, & Oil
H1769	1	12"	2-1/2"	11/32"	Return Lines
H1776	1	12"	2-1/2"	3/8"	
H1782	1	12"	2-1/2"	1/2"	Truck Valve Guides
H1784	1	12"	3"	5/8"	Feed Lines from Oil Gallery to Cam & Main Bearings
H1778	1	12"	3"	3/4"	Lifter Bores
H1780	1	14"	3"	1-1/8"	
H1781	1	34"	3"	3/8"	Oil Galleries
H1783	1	34"	2-1/2"	1/2"	Main Oil Galleries
H1777	1	34"	3"	5/8"	Oil Galleries
H1779	1	40"	3"	3/4"	Main Oil Galleries



## HONING OIL

An appropriate honing oil is recommended, use sparingly. Clean cylinder walls thoroughly after honing. On hydraulic cylinders use hydraulic brake fluid or non-petroleum water-soluble lubricant.



## HEAD & VALVE



H3456

### H3456 DELUXE OVERHEAD VALVE SPRING COMPRESSOR

- Designed to service most cars with overhead valves and newer vehicles with confined areas under the hood
- The knob is removeable exposing a 5/8" hex post allowing the technician to operate the tool with a 5/8" wrench or socket
- The components are heat-treated for added strength and long service life
- Use air hold tool, **H1119** or **H3261** to keep valves in place while using the tool on the car (See page 29)
- Not to be used with impact tools. Use on or off the car



H1078

### H1078 VALVE SPRING COMPRESSOR

- Compress valve springs without removing heads. For use on GM 8 cylinder and most other heads with stud type rocker arms
- Easy to use; remove rocker arm and fasten tool to stud
- Use with **H1119** "Air Holds" or **H3261** cylinder air hose to keep valves closed



H1396

### H1396 "SHORTY" VALVE LIFTER

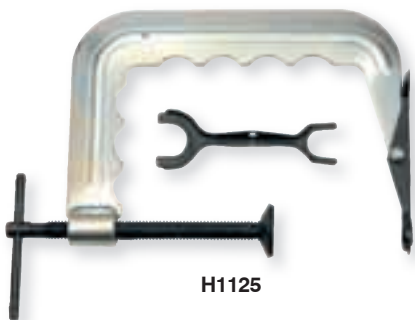
- Engineered for faster work on L-head engines having straight stemmed valves
- Extremely strong
- Provides fast, easy lift with easy to turn screw
- **Tested to 1000 lb. load**



H1403

### H1403 VALVE SPRING COMPRESSOR

- For small engines
- The ideal tool for removing and replacing valve springs in small engines
- Slender design enables this tool to reach into the small engine recesses
- Thumb screw adjustment widens or narrows jaws to fit valve springs



H1125

### H1125 SMALL ENGINE SPRING COMPRESSOR

- This precision tool is designed for **small air-cooled engines** with spring diameters of **9/16" - 1-1/16"** **Height: 5-1/8"** **Width: 3-3/8"**
- One piece, heavy duty jaw compresses spring for easy replacement of split locks and pins
- Services virtually all small motors, motorcycles, garden tractors and similar engines

# HEAD & VALVE

## H3183 VALVE SPRING COMPRESSOR

- Vertical lift design
- **Equipped for 1" - 2" spring diameters. Height: 10" Width: 8"**
- Prevents bending of valve stem. One hand control lock and release is powerful enough to easily compress the strongest spring
- Quickly adjusts for any valve stem length. One simple adjustment with the pin-operated screw on the first set of valves sets clamp for the balance of springs

**Replacement Jaws** (included with tool)

**H3183A** Straight Jaw (pair)

**H3183B** Offset Jaw (pair)

**Optional Jaws:**

**H3183C** Extra High Offset Jaw



H3183



H3183A

## H3348 VALVE SPRING COMPRESSOR

- Makes compressing the valve spring & removing the keepers simple. No need to remove head
- Adjustable cam action handle eliminates the need to reset tool
- When space prohibits use of cam handle, replace with bolt (supplied) and turn with socket
- Use with **H1119** "air holds" or **H3261** cylinder air hose to keep valves closed



H3348

## H3349 OVERHEAD VALVE SPRING COMPRESSOR

- Great for compressing valve springs on overhead valve engines
- Use with cylinder head on or off the engine
- Adjustable jaws fit over retaining washer, GM adaptor included
- Adjustable handle to access confined areas
- For use on Chrysler, Ford™, GM, Nissan and Toyota



H3349

## H1119 CYLINDER "AIR-HOLDS"

- Make overhead valve repairs without removing the cylinder head. Screw into spark plug hole and attach air line. Holds valves in place
- Set of **14mm and 18mm with 1/4" pipe thread** for quick coupler. It lets air do the work



H1119

## H3261 CYLINDER AIR HOSE

- Allows for removal of valve seals and valve springs without removal of head
- Flexible hose with **14 and 18 mm spark plug hole threads** on one end
- Other end has **1/4" N.P.T.** to allow hook-up to standard air lines



H3261

## VALVE LAPPING STICKS

- For precision handgrinding valves and seats
- Synthetic rubber cup is resistant to oil, gasoline and grinding compounds
- Comfortable wooden handle. A must for final valve to seat fitting operation

**H1183** Cup **3/4"**

**H1185** Cups **1-3/16" & 1-5/16"**



H1183



H1185



# COOLING SYSTEM



H3319

## H3319 RADIATOR HOSE CLAMP TOOL

- Multi-use, flexible-shaft, 1/4" drive socket driver
- **12" Overall length** shaft will tighten or loosen hex head screws on gear type hose clamps and other applications in even the most hard-to-reach places
- **1/4" drive end** allows operator to attach any 1/4" drive socket to fit the job



H3290

**NEW**

## H3290 FLEXIBLE HOSE CLAMP PLIERS

- Allows technician to access the flat-type hose clamps located in hard-to-access areas
- Pliers have locking mechanism to hold clamp in the open position - for easy removal and installation of clamp
- Spring loaded handles
- Heavy-duty, 24" cable flexes to almost any position
- Range - 0-53mm (0" - 2-1/16")
- AOL Length 33"

H3290-10 Cable assembly



H1671

## H1671 HOSE CLAMP PLIER

- Quickly remove round type clamps
- Engineered for automatic locking and quick releasing
- Plier heads swivel to any angle
- Great for hard-to-reach areas
- Works on all sizes



H3292

## H3292 FLAT BAND HOSE CLAMP PLIER

- Opens constant tension bands (MOBEA) for both heater and radiator hoses
- Jaws pivot to almost any angle
- Ratcheting trigger will lock tool
- **Range: 7/16" - 3" Overall Length: 13"**



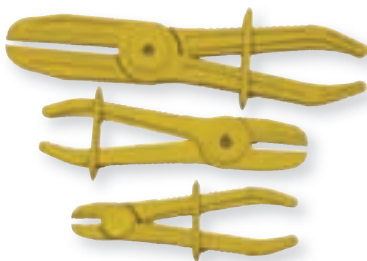
H3321

## H3321 HOSE CUTTING PLIERS

- Used to hook and cut 1/8 - 1" diameter plastic and rubber hose
- Razor sharp, v-shaped, hardened steel cutting blade ensures fast, efficient cuts
- Spring loaded blade returns to open position, increasing safety by not exposing blade

**Replacement Blade:**

H3321A Replacement Blade for H3321



H3318

## H3318 3 PC HOSE PINCH-OFF PLIER SET

- Special rounded edges ensure no damage to lines or internal reinforcements
- Lightweight and non-conductive
- For use on all brake and fuel lines
- Three sizes for use on most jobs

**Kit includes:** (one of each)

H3140 Capacity 1/4" - 7/16" (6 - 12mm)

H3316 Capacity 1/2" - 3/4" (13 - 19mm)

H3317 Capacity 3/4" - 2-1/4" (19 - 57mm)

# COOLING SYSTEM

## HOSE PINCH-OFF PLIERS

- No need to drain system when changing thermostats. Save coolant – save time
- Jaws swivel for parallel clamping. Heat treated
- Steel arms automatically lock with ratchet
- May also be used to pinch-off vacuum lines

**H3128** **Small Overall Length: 10" Capacity: 1"**

- Not for use on wire reinforced radiator hose

**H3129** **Large Overall Length: 12" Capacity: 1-3/8"**

- Squeezes wire reinforced radiator hose



H3128



H3129

**H3530**

## 10 PC MASTER FAN CLUTCH / WATER PUMP WRENCH SET

- Removes and installs fan clutches and water pumps on most Chrysler, Ford™ & GM vehicles
- Holding wrench immobilizes the fan clutch
- Works in tight spaces where conventional wrenches won't reach
- Heat-treated for strength and durability
- Use with 1/2" drive ratchet or breaker bar for more torque
- Comes in convenient blow mould storage case

### Kit includes:

- Fan Pulley Holding Tool **2-1/4" & 3-1/4"**
- Fan Clutch Bolt Holding Tool **2-3/8"**
- Fan Clutch Pulley Holding Tool **2-1/8" & 3"**
- Fan Clutch Nut Wrench **1-7/16"**
- Fan Clutch Wrench **1-7/16" & 1-9/16"**
- Fan Hub Wrench **2-13/16"**
- Clutch Nut Wrench (left hand) **1-7/8"**



H3530

**H3531**

## 4 PC FAN CLUTCH WRENCH SET

- Designed for removing & installing fan clutch assemblies on some Ford™, Chrysler, Jeep & import vehicles
- Holding wrench immobilizes the fan clutch. The nut wrench turns the nut on or off
- Works in tight spaces where conventional wrenches won't reach
- Heat treated for strength and durability
- Use with 1/2" drive ratchet or breaker bar for more torque
- Use small double-ended wrench on 2.8, 2.9, 3.0, 4.0 & 4.9 litre engines
- Use large single-ended wrenches & large holding wrench on 6.9 & 7.3 litre diesel engines

### Kit includes:

- Double-ended Fan Clutch Wrench **36mm & 1-9/16"**
- Fan Clutch Holding Wrench **58mm**
- Fan Clutch Holding Wrench **1-7/8"**
- Fan Clutch Holding Wrench **3-1/4"**



H3531



**H3366**

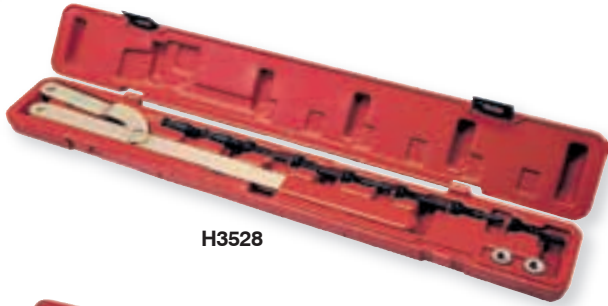
## 2 PC FORD™ FAN CLUTCH WRENCH SET

- Special size for servicing fan clutch on Ford™ 4.9L engines
- Includes flat wrench and crow foot
- Use with 1/2" breaker bar for extra torque



H3366

## COOLING SYSTEM



H3528

### H3528 **12 PC UNIVERSAL PULLEY HOLDER & FAN CLUTCH SET**

- Kit provides easy removal and installation of fan clutch
- Also holds the camshaft pulley on most cars
- 4 different adaptor styles included (2 of each) making this a versatile set
- Comes in convenient blow mould storage case



H3529

### H3529 **14 PC DELUXE SERPENTINE BELT TOOL SET**

- Enables rapid and easy removal and installation of belts on serpentine belt equipped vehicles
- Connect the tool to the spring loaded idler pulley to release the tension
- Fits most vehicles
- Comes in convenient blow mould storage case

**Kit includes:**

- Serpentine Cushion Grip Belt Tool
- **Extension Bars: 6" & 10"** – for versatility and leverage
- **Sockets: 13, 14, 15, 16, 18mm** – with custom 16mm drive end to fit bars
- **3/8" & 1/2" Drive Adaptors** – with custom 16mm drive end to fit bar
- **3/8" Drive Crowfoot Wrenches 13, 14, 15mm** – use with 3/8" adaptor above
- **3/8" - 16 UNC Bolt** – to attach extension bars to long handle



H3532

### H3532 **6 PC COOLING SYSTEM TESTER**

- Designed to test cooling systems and pressure caps for leaks
- Cap features a rotating lever for fine pressure adjustments
- Kit includes three popular radiator adaptors that fit the five most commonly found radiator necks in the industry
- Includes hand pump, cap assembly with 12" hose
- Comes in a convenient blow mould case





# EXHAUST

## PIPE & MUFFLER IMPACT EXPANDERS

- Use with impact wrench
- Removes clamp grooves and rounds out exhaust pipes
- A practical, rugged tool that makes easy work of a tough job
- Expansion rings set in deep grooves to prevent wear

**CAUTION:** Not to be used to stretch pipe.

### H1175 **SMALL – for Compacts & Foreign Cars**

Range: 1-1/8" - 1-3/4" (29mm - 44mm) diameter

### H1017 **STANDARD – for Passenger Cars**

Range: 1-1/2" - 2-7/16" (38mm - 62mm) diameter

### H1176 **EXTRA LARGE – for Passenger Cars & Trucks**

Range: 2-1/8" - 3-7/16" (54mm - 87mm) diameter



H1175 / H1017



H1176

## H1018 **TAILPIPE CUTTER**

- Easily cuts thin and thick walled exhaust pipe from 3/4" to 3-1/4" (19-83mm) in diameter
- Thirteen 19mm cutting wheels eliminate "bottoming out"
- Ideal for heavier walled European-type exhaust pipes
- Does not leave burrs
- Only 1/4 turn needed to cut, works well in hard-to-reach places
- Keep chain well oiled for long life



H1018

## H3438 **G.M. EXHAUST MANIFOLD SPREADER**

- Used to re-install small block Chevrolet manifolds
- Expands a warped manifold so that all bolt holes accurately align
- Prevents cross-threading of manifold bolts or install before removing manifold to prevent misalignment
- For best results, use in pairs

**CAUTION:** Not to be used to stretch pipe.



H3438

## H3148 **EXHAUST PRESSURE TESTER**

- Unique design allows pressure to be taken either through the oxygen sensor hole or through the exhaust pipe with a threaded insert system (included)
- Accurately determines excessive exhaust back pressure caused by catalytic converter or muffler blockage

**Kit includes:**

- H3148A **Gauge 0 - 15 lbs**
- H3148B Hose Assembly
- H3148C Insert Installing Tool
- H3148D Oxygen Sensor Adaptor 18mm
- H3148E Oxygen Sensor Adaptor 12mm
- H3148F 10 Pack Inserts, Washers, Screws



H3148

# FUEL SYSTEM

## H2000

### 40 PC MASTER FUEL INJECTION TEST KIT

Contains all items necessary for checking the fuel injection systems on most domestic and foreign vehicles. Features a large, 3-1/2" gauge head with dual readings of 0 - 145 psi and 0 - 1000 kpa, and 2-1/2" gauge with dual readings of 0 - 15 psi and 0 - 100 kpa. All adaptors, gauge heads, and hose assemblies feature a quick coupling system. Comes complete with instructions in a blow moulded carrying case.

Case will accommodate **H2000UPA** Supplement Kit.

## PARTS & ACCESSORIES FOR TEST KITS

### GAUGES & HOSES

- H2000A** 3-1/2" Gauge Head with dual readings  
**0-145 psi & 0-1000 KPA (10 Bar)**  
Can be used for all tests
- H2000AA** Low pressure 2-1/2" Gauge with dual readings  
**0-15 psi & 0-1kg/cm2 (1 Bar)** Use for tests where  
an accurate reading below 15 psi is required
- H2000AB** Quick Coupler
- H2000D** Gauge Hose Assembly with blow-down valve
- H2000G** CIS/TBI Test Hose
- H2000DX** 72" Extension Hose
- H2000RK** Repair Kit, O-Rings, Washers

### TEST PORT ADAPTORS

- H2000B** Large Schrader Type Test Hose with 7/16" x 20 thread
- H2000BK** Replacement Washer & Pin for **H2000B**
- H2000B90** Large Schrader 90° Adaptor
- H2000C** Small Schrader Type Test Hose with .308 x 32 thread
- H2000C90** Small Schrader 90° Adaptor

### IN-LINE TESTING TBI

- H2000S** Union 5/8" x 18
- H2000T** 16mm x 1.5 Female Tube Nut (2)
- H2000U** 16mm x 1.5 Male Tube Nut (2)
- H2000UA** 14mm x 1.5 Female Tube Nut (2)
- H2000UB** 14mm x 1.5 Male Tube Nut (2)
- H2000UC** 14mm x 1.5 Plug
- H2000V** 5/8" x 18" Male Fitting (2)

### IN-LINE TESTING - SPECIAL CONNECTIONS

- H2000F** Double-ended Hose Fitting 5/16" - 3/8"
- H2000W** Spring Lock Hose - Common Application Ford™ CFI
- H2000X** Hair Pin Hose 5/16" - Common Application Ford™ EFI
- H2000XA** Hair Pin Hose 3/8" - Common Application GM, Chrysler

### END OF LINE, BANJO - FUEL BOLT ADAPTORS

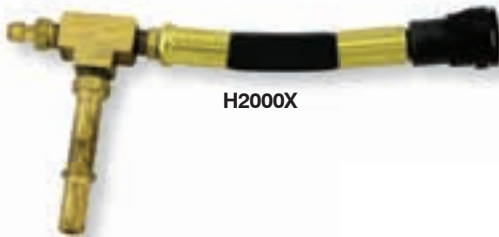
- H2000E** Single End Hose Connection - 1/4" x 3/8"
- H2000N** 6mm x 1.0 Thread
- H2000NN** 8mm x 1.0 Thread
- H2000P** 10mm x 1.0 Thread
- H2000Q** 12mm x 1.25 Thread
- H2000R** 12mm x 1.5 Thread
- H2000RA** 14mm x 1.5 Thread



H2000 Kit



H2000C



H2000X



H2000T - H2000UA



H2000S



H2000UC



H2000A



H2000E



H2000C90

# FUEL SYSTEM

## PARTS & ACCESSORIES FOR TEST KITS

### IN-LINE TESTING CIS, CISE & K-JETRONIC

- H2000H** 8mm x 1.0 Male Long
- H2000HA** 8mm x 1.0 Female Long
- H2000HH** 10mm x 1.0 Male
- H2000J** 8mm x 1.0 Female
- H2000K** 12mm x 1.5 Swivel Female (2)
- H2000KA** 14mm x 1.5 Swivel M & F
- H2000KB** 16mm x 1.5 Swivel M & F
- H2000KC** 1/4 BSPT Swivel M & F
- H2000L** 10mm x 1.0 Female
- H2000M** 8mm x 1.0 Male (2)



H2000K H2000L - H2000J



H2000M

H2000KC

H2000KB



H2000H

H2000NN - H2000P - H2000Q  
H2000RA - H2000R



H2000HA

H2000KA

### ADAPTORS FOR CHRYSLER & MITSUBISHI

- H2000M11** 11mm
- H2000M15** 15mm
- H2000M16** 16mm

### H2000UPA SUPPLEMENT KIT

9 additional pieces not included in **H2000** 40 PC kit.  
Contents: **H2000XA, HA, KA, KC, RA, UC, RK** and illustrated complete kit contents label to attach to inside of **H2000** lid. For description of these additional pieces, see parts and accessories list.

### H2001 INJECTOR CLEANING HOSE

Allows **H2000** kit to be used for cleaning injectors. Uses most pressurized cleaning cans (except O.T.C.) along with gauge and adaptors from **H2000** kit.



H2001

### H2002 MULTI-PORT INJECTION PRESSURE TESTER

- Test fuel pump pressure on most domestic and import vehicles equipped with multi-port fuel injection systems using the small or large Schrader type connection
- Can be used on most import vehicles, except those equipped with Bosch C.I.S.
- Includes bleed-off valve with hose to safely enable technician to depressurize fuel system after testing
- **3-1/2" gauge diameter has dual scale: 145 psi/1000 Kpa**
- Full instructions included
- Supplied in vinyl storage pouch



H2002

## FUEL SYSTEM



**H3501**

### **H3501** **FUEL & AIR CONDITIONING LINE DISCONNECT TOOL SET**

- Easily disconnect spring lock couplings on Ford™ & Chrysler air conditioning lines
- Used on fuel line quick connect couplings found on late model GM, Ford™ & Chrysler
- Can be used on Ford™ transmission and radiator cooler lines
- Set contains six colour coded and stamped with tool size for quick identification

**Sizes:** S.A.E. 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"  
Metric 8, 9, 13, 16, 19, 22mm



**H3544**

### **H3544** **11 PC DISCONNECT TOOL SET**

- This master fuel line quick disconnect tool set broadens the applications of disconnecting fittings and spring lock couplings on fuel, filter cooler and transmission oil lines
- Fuel line disconnects are colour coded anodized aluminum for easy identification
- A must for all mechanical service shops
- Use with most vehicles on the market today
- Comes in convenient blow mould storage case

 **CAUTION: Release system pressure before using these tools!**

**Kit includes:**

- H3089** Ford™ A/C & Fuel Line Spring Lock Coupling Tool
- H3351** Fuel Line Disconnect Tool
- H3352** Ford™ Fuel Line Coupling Tool
- H3353** Ford™/GM Quick Disconnect Tool
- H3355** Ford™ Oil Cooler Line Disconnect Tool
- H3356** Fuel Line Tool **1/4"**
- H3357** Fuel Filter/Line Tool **5/16"**
- H3358** Fuel Line Tool **3/8"**
- H3359** Oil Cooler Line Tool
- H3364** GM Heater Line Disconnect Tool
- H3435** Clutch Coupling Tool



**H3545**

### **H3545** **7 PC FUEL & TRANSMISSION DISCONNECT TOOL SET**

- Separate fittings on fuel lines, fuel filters, fuel tank return lines & transmission cooler lines
- Fuel line disconnects are colour coded anodized aluminum for easy identification
- Comes in convenient blow mould storage case

 **CAUTION: Release system pressure before using these tools!**

**Kit includes:**

- H3352** Ford™ Fuel Line Coupling Tool
- H3353** Ford™/GM Quick Connect Tool
- H3355** Ford™ Oil Cooler Line Disconnect Tool
- H3356** Fuel Line Tool **1/4"**
- H3357** Fuel Filter/Line Tool **5/16"**
- H3358** Fuel Line Tool **3/8"**
- H3359** Oil Cooler Line Tool



**H3089**

### **H3089** **FUEL AND AIR CONDITION LINE SPRING LOCK RELEASE TOOL**

- This spring-lock coupling release tool easily separates fittings on fuel and air conditioning lines
- Tool sizes are 3/8", 1/2", 5/8" and 3/4"



# FUEL SYSTEM

## H3351 FUEL LINE DISCONNECT TOOL

- This spring-lock coupling release tool easily separates fittings on fuel lines
- Tool sizes are 3/8" and 5/16"



H3351

## H3352 FUEL LINE COUPLING TOOL

- 1990 – current Ford™ Ranger & Explorer with 4.0 Liter, 6 cylinder engines



H3352

## H3353 FORD™/ GM QUICK DISCONNECT TOOL

- Ford™ CFI fuel lines with hair pin connectors; universal for radiator to transmission oil cooler lines; 1987 and later model Olds Tornado; Buick Riviere & Reatta; Cadillac Eldorado, Seville & Concours; 1989 & later Model GM1/2, 3/4 & 1 Ton pickups



H3353

## H3354 2 PC DISCONNECT TOOL SET

- Separates quick connect fittings from transmission, radiator oil cooler and power steering lines

### Kit includes:

- Ford™/GM quick disconnect coupler tool and Ford™ oil cooler line disconnect tool

### Applications:

- Ford™ EFI fuel lines with hair pin connectors
- Transmission/oil cooler lines on 1989 – current/GM 1/2, 3/4 and 1 Ton pickups; 1986 – current Ford™ Taurus & Mercury Sable with AXOD, AOD, or ATX transmissions



H3354

## H3355 FORD™ OIL COOLER LINE DISCONNECT TOOL

- Ford™ vehicles with AXOD, AOD, or ATX transmission



H3355

## H3356 1/4" FUEL LINE TOOL

- 1995 – 1996 Ford™ Mustang 1/4" fuel pump return line



H3356 - 1/4"

## H3357 5/16" FUEL FILTER / LINE DISCONNECT TOOL

- 1990 – current Ford™ Aerostar, Explorer, Bronco with 5/16" fuel lines
- 1991 – current Ford™ E & F series trucks with 5/16" fuel lines
- 1992 – current Ford™ Ranger with 5/16" fuel lines
- 1992 – current GM with 5/16" fuel lines



H3357 - 5/16"

## H3358 3/8" FUEL LINE TOOL

- 1990 – current Ford™ Aerostar, Explorer, Bronco with 3/8" fuel lines
- 1991 – current Ford™ E & F series trucks with 3/8" fuel lines
- 1992 – current Ford™ Ranger with 3/8" fuel lines
- 1994 – 1997 Dodge Ram V6 & V8 trucks with 3/8" cooler lines
- 1995 – 1996 Dodge Ram Van/Wagon with 3/8" cooler lines



H3358 - 3/8"

## H3359 OIL COOLER LINE TOOL

- Ford™ Taurus & Escort oil cooler lines on AXOD & ATX transmission



H3359

 **CAUTION:** Release system pressure before using these tools!

## FUEL SYSTEM

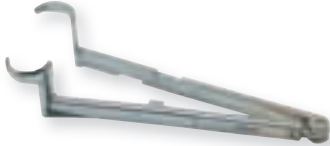


H3363

### H3363

#### 4 PC A/C SPRING LOCK COUPLING SET

- For separating spring lock air conditioning lines
- Spring-loaded closed clamp deflects any spray when disconnecting pressurized lines
- **Colour coded set of 4 sizes: 3/8", 1/2", 5/8", 3/4"**
- 1981- current Ford™ and some 1994 - current Chrysler vehicles



H3364

### H3364

#### GM HEATER LINE DISCONNECT TOOL

- Releases heater line quick connect fitting from engine block and thermostat housing
- 1991 – current GM 3.1L / 3.4L & 3800 engines



H3546

### H3546

#### 10 PC NOID LIGHT & IAC TESTER SET

- Noid lights provide the most efficient way to check electronic fuel injection (EFI) signals
- Quick & easy operation. Disconnect fuel injectors & plug the noid light into the injector wiring harness
- Crank engine, normal signals are indicated in rapid flashes of the noid light
- A constant light or no light confirms an EFI signal problem
- Comes in a convenient blow mould storage case

#### Checks Systems of the following:

- Bosh PFI, Bosh 2, Ford™ TBI, GM PFI, GM TBI, GM SCPI, GM Multec 2, Geo TBI
- IAC Straight signal tester – 1987 to current GM No.700 TBI & PFI systems with flat 4-pin connector
- IAC 90 degree signal tester – 1982 to current GM TBI & PFI systems with square 4-pin connector



H3547

### H3547

#### 7 PC OIL, OXYGEN & VACUUM SENSOR SOCKET SET

- Contains seven popular oil, oxygen and vacuum switch sensor sockets
- Works on most computerized engine controlled vehicles
- Chrome vanadium steel, heat treated for strength & durability
- Comes in a convenient blow mould storage case

#### Kit includes:

H3327, H3346, H3440, H3580, H3583, H3586, H3595 Sockets

## OIL / OXYGEN / VACUUM SENSOR SOCKETS

# OIL / OXYGEN / VACUUM SENSOR SOCKETS

## H1480 FOR OIL PRESSURE SENDING UNITS

- Two sizes in one
- For quick and easy removal and replacement of oil pressure sending units
- **3/8" square drive, 2" long – fits 1" & 1-1/16" sending units**
- 3/4" hex



H1480

## H3439 OIL PRESSURE SENDING UNITS

- Remove and install **1-3/16" oil pressure sending units up to 4-1/4" long**
- Heat treated alloy steel
- Fits most late model 80s to mid 90s GM vehicles equipped with an oil pressure gauge
- Use with 3/8" square drive or 3/4" hex wrench



H3439

## H3440 OIL PRESSURE SENDING UNITS

- **Remove and install 1-1/16" oil pressure sending units up to 2-5/8" long**
- Heat treated alloy steel
- Use with 3/8" square drive or 1-1/8" hex wrench
- Fits most 1991 to current GM vehicles using oil pressure gauge and 1987 to current Chryslers with light and gauge



H3440

## H3327 OXYGEN / VACUUM SENSOR SWITCH SOCKET

- Removes and installs oxygen sensors and vacuum switches on computerized engine control vehicles
- **3/8" drive x 7/8" hex socket with cut-away slot** provides extra clearance for oxygen sensor wires during use



H3327

## H3580 OXYGEN / VACUUM SENSOR SOCKET

- 1/2" drive 29mm narrow slot oxygen sensor socket



H3580

## H3583 OXYGEN / VACUUM SENSOR SOCKET

- 3/8" drive x 7/8" x 3-3/16" (80mm)



H3583

## H3346 COMPACT OFFSET OXYGEN SENSOR WRENCH

- Removes and installs oxygen sensors on vehicles with computerized engine control
- Offset design for increased manoeuvrability
- **Features a 7/8" hex and 1/2" double square drive with cut-away slot** providing extra clearance for oxygen sensor wires during use



H3346

## H3586 3/8" DRIVE OFFSET OXYGEN SENSOR WRENCH

- Removes and installs oxygen sensors on vehicles with computerized engine control
- Offset design for increased manoeuvrability
- **7/8" 6 point socket with cut-away slot** provides extra clearance for oxygen sensor wires during use.



H3586



H3548

## OIL / OXYGEN / VACUUM SENSOR SOCKETS

### H3548 **4 PC INJECTOR SOCKET SET WITH WINDOWS**

- Contains four popular windowed injector sockets
- Sockets made of high quality chrome vanadium steel
- 1/2" drive – can be used with ratchets, flex and breaker bars and torque wrenches
- Comes in a convenient blow mould storage case

**Kit includes:**

H3589, H3592, H3595, H3598 Windowed Injector Sockets

 **CAUTION:** Do not use with power or impact tools.



H3589



H3595



H3592



H3598

### H3589 **INJECTOR SOCKET**

- 1/2" drive 22mm x 3 -1/8"

### H3592 **INJECTOR SOCKET**

- 1/2" drive 22mm x 4-1/4"

### H3595 **INJECTOR SOCKET**

- 1/2" drive 27mm x 3-1/4"

### H3598 **INJECTOR SOCKET**

- 1/2" drive. 28mm x 3 -1/16"

## BLOW & SPRAY GUN



H3192

### H3192 **SPRAY CLEANING GUN KIT**

- High speed 2-way action quickly blasts dirt, grease and oil
- Sprays cleaning solvents under high pressure. Will also blow air only
- Pressure trigger for maximum efficiency
- Includes 4 ft. siphon hose with screen
- Operates with one H.P. or larger air compressor delivering 3.0 CFM at 60 psi
- **Air inlet: 1/4" N.P.T.**

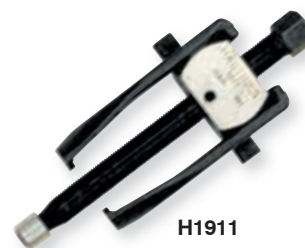


# PULLERS

## H1911 **LE\***

### PULLEY PULLER

- Removes pressed on 1 or 2 groove pulleys from alternators, power steering pumps
- Designed to remove alternator bearings
- Adjust thumb screws to tighten jaws
- There are no loose parts on this tool
- Jaw opening 1-1/4"



H1911

## H3341

### P.S. PUMP & ALTERNATOR PULLEY TOOL

- Removes and installs pulleys. 2-in-1 tool.
- Features a two sided flange which fits all domestic automobiles including GM, Chrysler and Ford™
- Removes and installs Saginaw, Thompson and Ford™ C-2 power steering pumps with grooved assemblies
- Works on alternator pulleys with the following grooved hub diameters:

**S.A.E.** 1-1/8", 1-1/4", 1-5/16", 1-3/8"

**Metric** 28, 32, 34, 35mm

**H3341-10** Replacement Sleeve



H3341

 **CAUTION: Do not use with impact tool!**

## H3565 **LE\***

### 6 PC POWER STEERING PUMP PULLEY SET

- Remove & install power steering pump pulleys without damage
- Use on most Chrysler, Ford™ and GM vehicle
- Comes with two screw shafts for various pump sizes
- **Fits pulley hub diameters of 1-1/8", 1-1/4", 1-5/16", 1-3/8"**
- Comes in convenient blow mould storage case

#### Applications:

- 1988 – to current GM Quad 4 engines
- 1989 – to current GM 1/2", 3/4", & 1 ton pickups
- 1990 – to current Chevrolet Lumina APV, Pontiac TransSport, Oldsmobile Silhouette
- 1991 – to current (3.1L V6 engines) Chevrolet Lumina sedan, Olds Cutlass Supreme, Buick Regal, Pontiac Grand prix
- 1991 – to current Ford™ (4.6L engines)
- The included H3353 disconnect coupler tool disconnects the fuel line on most 1987 – to current Cadillac, Oldsmobile, & Buick vehicles



H3565

## H3566 **LE\***

### POWER STEERING PUMP PULLEY SET

- Remove and install alternator and power steering pulleys on late model Chrysler, Ford™ & GM engines
- Reverse the jaws to pull the alternator internal bearings
- Will not damage pump or pulley
- Comes in convenient blow mould storage case

#### Applications:

- 1988 – to current GM Quad 4 engines
- 1990 – to current Chevrolet Lumina APV, Pontiac TransSport, Oldsmobile Silhouette
- 1991 – to current (3.1L V6 engines) Chevrolet Lumina sedan, Olds Cutlass Supreme, Buick Regal, Pontiac Grand prix
- 1991 – to current Ford™ (4.6L engines)

#### Kit includes:

- Pulley Body, Center Bolt, 2 PC Jaws with Retaining Ring, Bearing, Washer and small Button
- Puller Pins for Quad 4, GM 3.1L
- Installing Screws for Quad 4, GM 3.1L, Ford™ 4.6L and others



H3566

# PULLERS



H3556



H3553



H1905



H3567



H1903

## H3556 FRONT HUB PULLER & INSTALLER

- Designed to remove and install most front wheel drive hubs for servicing wheel bearings, CV joints or transaxle
- Kit includes one each: front hub remover, FWD front hub installer and Ford™ front hub installer
- Comes in a convenient blow moulded case

## H3553 3 PC REAR AXLE BEARING REMOVER SET

- Extracts semi-floating rear axle bearings in most domestic vehicles
- Use with 5/8" - 18 thread slide hammer for more torque and to avoid damage to rear axle or bearings
- Comes in a convenient blow mould storage case

**Kit includes:**

- 1" ID minimum bearing tube and a 1-7/8" ID maximum axle tube
- 1-5/16" ID minimum bearing tube and a 2-3/8" ID maximum axle tube
- 1-3/8" ID minimum bearing tube and a 2-7/8" ID maximum axle tube
- Over-all pulley length: 5-1/2"

## H1905 SMALL GEAR AND BEARING PULLER

- Also use for battery terminals
- Has a unique spring action that permits a one handed operation
- Forces the jaws tighter as more pressure is applied to the pressure screw
- Pressure screw has a protector on the end to prevent damage to the object pulled
- The 1-1/4" capacity is ideal for small bearing, battery terminals and other small pulling jobs
- All parts are plated for rust and corrosion protection

## H3567 15 PC STEERING WHEEL PULLER & LOCK PLATE COMPRESSOR SET

- Everything you need to efficiently remove the steering wheel on most vehicles with conventional or tilt steering columns without damaging the steering wheel
- Including some GM models with entertainment and climate control circuit boards
- The lock plate compressor accesses the turn signal switch and S.I.R. modules on Chrysler, GM & AMC to compress the steering wheel in order to remove / install the snap ring

## H1903 STEERING WHEEL PULLER

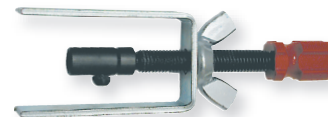
- For all major makes of automobiles: 5/8" x 4" centre screw has recessed floating swivel
- Five sets of (2 each) side screws: 3/8" - 16 x 4", 5/16" - 18 x 4-1/2", 5/16" - 24 x 3-1/2", 1/4" - 28 x 3", M8 x 1.25 x 80mm

# PULLERS

## H3104 **LE\***

### STEERING WHEEL – LOCK PLATE TOOL

- A time saver for removing and installing lock plates on AMC / GM / Chrysler cars including tilt steering wheels and airbags
- **One tool handles both 9/16" - 18 and 14mm threads**
- Easy to use. Just a few turns puts the screw on the steering column. A turn of the wing nut and the lock plate is ready for release. Reverse the procedure to install



H3104

## H1901 **LE\***

### HARMONIC BALANCER PULLER

- Designed to pull balancers, vibration dampers, pulleys, or any tool with tapped holes
- Two or three hole applications
- Floating swivel prevents damage to shaft ends
- **Range: 1-3/8" - 3-9/16"**
- 5 sets of side screws provided



H1901

## H3558 **LE\***

### HARMONIC BALANCER INSTALLER KIT

- Ideal for installing or removing vibration dampers, balancers, pulleys and gears with tapped holes where evenly distributed force is required
- Comes in convenient blow mould storage case
- Kit includes:** one each of the following eight adaptors.
- **S.A.E.** 7/16"-20, 1/2"-20, 9/16"-18, 5/8"-18, 3/4"-16
- **Metric** M12 x 1.5, M14 x 1.5, M16 x 2.0



H3558

## H3559 **LE\***

### 6 PC HARMONIC DAMPER PULLEY PULLER SET WITH RETAINING RING

- This compact tool eliminates the need to remove the radiator before removing the pulley
- Unique design for easy access in confined engine compartment
- The holding tool can be used to aid in the removal and installation of the crank bolt on most Chrysler, Hyundai and Mazda engines
- Comes in a convenient blow mould case

#### Applications:

##### Cadillac

- 1988 - 1992 with 4.5L V8
- 1993 & later with 4.6L V8
- 1991 - 1995 with 4.9L V8
- Escalade with 6.0L V8

##### Chrysler

- 1995 & later Autos with 2.0L 4 Cylinder, 2.4L 4 Cylinder and 2.5L V6
- 1998 & later Autos with 2.7L DOHC V6, 3.2L SOHC V6 and 3.5L SOHC V6
- 1990 & later Vans with 3.3L V6
- 1993 - 1997 Autos with 3.3L and 3.5L V6
- 1994 & later Vans with 3.8L V6
- 1998 & later with 4.7L V8
- 1994 & later Pick-ups with 8.0L V10

##### GM

- 2005 & later with 2.8L Straight 4 cylinder: Chevy Colorado, GMC Canyon
- 2004 & later with 3.5L Straight 5 cylinder: Chevy Colorado, GMC Canyon
- 2006 & later Hummer H3 with 3.5L Straight 5 cylinder
- 2003 & later with 4.2L Straight 6 cylinder: Chevy Trailblazer, GMC Envoy, Olds Bravada
- 2004 & later with 4.2L Straight 6 cylinder: Buick Rainier
- 1997 & later with 5.7L V8 (Gen III): Camaro, Corvette, Firebird and Trans-Am
- 2000 & later with Gen III trucks and SUV's with 4.8L V8, 5.3L V8, 6.0L V8 and 8.1L V8

##### Mitsubishi

- 1995 - 1999 with 2.0L DOHC non-turbo: Eclipse

##### Oldsmobile

- 1995 & later with 4.0L V8



H3559

## H1927 **LE\***

### GEAR AND PULLEY PULLER

- Handy for pulling timing gears, fan pulleys, balancers, cam gears, etc
- Sturdy cross arm, 1" square is 4-7/8" long
- Center screw is 5-1/2" long with a 5/8"-18 thread
- Two side screws provided are 3/8"-16.



H1927

# PULLERS



**H1921**  
**H1921G – Optional Small Jaws**  
 3/8" - 1-3/8" (two required)

## H1921 PILOT BEARING PULLER

- Slide hammer type
- Used for removing sleeve type bearings from 1/2" - 1-1/2" inside diameter on flywheels, pumps, and generators
- Turn the handle for quick adjustment and the center rod spreads the alloy steel jaws for a tight fit inside the bearings
- A few light taps with the sliding hammer, and the bearing is removed

**H1921G** Optional Small Jaw



**H1924**

## H1924 PILOT BEARING PULLER

- Used for removing flywheel pilot bearings on cars, trucks, and tractors where working space is limited
- Useful in pulling bearings, and bushings on motors, generators, starters and magnetos. Steady pull with the screw type puller allows removal without shock to the bearing or housing, thus reducing the possibility of damage

**Capacity:** 1/2" min. - 1-1/2" max. **Length:** 7-1/4"

**H1921G** Optional Small Jaw



**H3555**

## H3555 7 PC MASTER BLIND BEARING PULLER SET

- Pulls blind hole bearings, bushings & sleeves with collets ranging from 3/8" - 1-1/4" where regular pullers will not reach
- Use with 2.5lb (1.12kg) slide hammer with collets to pull bearings and bushings
- Comes in a convenient blow mould storage case



**H3562**

## H3562 INTERNAL & EXTERNAL BEARING PULLER SET

- Remove internal and external bearing cups, seals, bushings etc.
- Special cone adaptor included which securely locks jaws on part to be removed
- Use with slide hammer for more torque
- Comes in a convenient blow mould storage case

**Kit includes:**

- 2.7lb (1.24kg) Slide Hammer (5/8"-18 thread)
- Two Internal 3-Jaw Sets (**Capacity 10 - 30mm, 30 - 80mm**)
- External 3-Jaw Set (10 - 80mm)
- Cone Adaptor



**H3560**

## H3560 HEAVY DUTY MULTIPURPOSE SLIDE HAMMER SET

- Extract flange-type rear axles, semi-floating rear axles bearings, balancers and other press-on parts
- With the 2/3 jaw combination, it can remove gears, outer races, grease retainers, oil seals and other internal / external pulling jobs
- Used on most cars and light trucks that have axles with bolts & studs no larger than 9/16" in diameter
- **Applies to 4.5 & 6 bolt stud circles that range from 4-1/4" - 5-9/16"**
- Slide hammer is 5 lbs (2.32kg)
- Comes in a convenient blow mould storage case



## PULLERS

### H3563

#### 12 PC 10 LB DENT PULLER SET

- Designed to remove dents for auto body repairs without removing the inside panel and upholstery
- The 10 lb slide hammer and the variety of tapered attachments easily pulls dented or creased sheet metal back into place
- The long shaft allows for a more powerful pulling force
- Comes in convenient blow mould storage case



H3563

### H3524

#### 18 PC DELUXE A/C COMPRESSOR CLUTCH HUB PULLER / INSTALLER

- Complete set designed to remove & install clutch hubs for GM, Ford™ & Chrysler A/C compressors
- 3 slot puller plate fits most clutches
- Also includes all 5 pieces of A/C compressor orifice tube tools found in kit H3525
- Detailed application chart included
- Comes in a convenient blow mould storage case



H3524

### H3525

#### 5 PC A/C COMPRESSOR ORIFICE TUBE TOOLS

- Removes & Installs most styles of A/C orifice tubes
- Fits GM (CCOT) & Ford™ (FOTCC) systems with evaporator inlet orifice tube, Ford™ (FOCC) screen extractor & Ford™ Aerostar expansion tube
- Includes one T-handle drive tool, one extension, 2 orifice adaptors and an auger tool.
- Comes in a convenient blow mould storage case



H3525

## TORQUE TOOLS

### H3446

#### TORQUE ANGLE METER

- Used on head bolts and other bolts where a torque angle is required by the manufacturer with a specified pre-load torque value PLUS and angle turn
- Large easy to read dial
- **360° angle scale marked in 2° increments**
- **19" flex shaft** with spring clip for easy operation
- Use with **1/2"** square drive



H3446

# FILTER WRENCHES



H1014

## H1014 BAND TYPE FILTER WRENCH – NON-SWIVEL

- Stainless steel band is 7/8" (22.2mm) wide
- Full length ergonomic cushion grip handle for comfort
- All steel handle construction, plated for rust protection
- Studs on inside of band help prevent slipping
- Farm & Fleet
- 4-3/4" – 5-1/8" (120.6 – 130.1mm)



H1060 - H1063

## SWIVEL HANDLE FILTER WRENCH

- These filter wrenches are built for professional use. There is a self-locking bolt in the handle instead of a rivet so that wear can be taken up after long use
- Stainless steel band is 7/8" (22.2mm) wide, supported on the outside joint
- Full length ergonomic cushion comfort grip handle for comfort
- All steel handle construction, plated for rust protection
- Studs on inside of band help prevent slipping

**NEW**

H1060	Small	2-3/8" – 2-7/8" (60.3 – 73mm)
H1061	Compact	2-7/8" – 3-3/8" (73 – 85.7mm)
H1062	Standard	3-3/8" – 3-3/4" (85.7 – 95.2mm)
H1063	Large	3-3/4" – 4-3/8" (95.2 – 111.1mm)



H3433 - H3434

## SWIVEL HANDLE TRUCK FILTER WRENCH

- Designed for use on Cummins, Detroit Diesel and Caterpillar engines
- Has a self-locking bolt so that wear can be taken up after long use
- Steel bands one full inch wide
- Full length cushion grip handle for comfort
- Studs on inside of band help prevent slipping

H3433	Cummins & Detroit Diesel Engines	4-5/16" - 4-3/4" (110 - 120mm)
H3434	Caterpillar Engines	5-1/4" - 5-3/4" (134 - 146mm)



H3078 - H3090

## 1/2" SQUARE DRIVE HEAVY DUTY FILTER WRENCHES

H3078	4-1/8" - 4-21/32" (104 - 118mm)
H3079	4-21/32" - 5-5/32" (118 - 131mm)
H3090	5-5/32" - 5-21/32" (131 - 144mm)



H1295

## H1295 STRAP TYPE FILTER WRENCH

- For installing or removing oil filters
- Adjusts quickly to oil filter. Use with square drive ratchet handle or open-end wrench
- Strap is made of durable oil resistant nylon web that will not slip
- For cars & trucks **6" capacity**
- 1/2" square drive or 3/4" open-end wrench



H3241

## H3241 HEAVY EQUIPMENT STRAP FILTER WRENCH

- Heavy duty cordura strap for high torque requirements
- Tightening and turning device has 3/8" square drive on one end and 1/2" square drive on the other
- Range up to 9" (228mm) approx. Strap Length approx. 25"



H3055

## H3055 SPIDER FILTER WRENCH

- Removes all passenger car and light duty truck spin on type oil filters
- Serrated legs provide strong gripping power
- Range: 2-3/8" - 4-3/4" (60.3 - 120.7mm)
- Use with 3/8" square drive

CAUTION: Do not use with power or impact tools.

# FILTER WRENCHES

## CAP STYLE FILTER WRENCH

- For installing or removing oil filters
- Fits most makes and models of filters with fluted ends. Won't damage filter

**H1099 Dual Size for 2-7/8" - 3" (73 - 76.2mm)**  
**Compact Size Filters — 15 Flutes**

- Steel / nickel plated uses 3/8" square drive socket wrench or 1" open end wrench to operate

**CAUTION: Do not use with power or impact tools**



H1099

## H3370

### 14 PC CAP STYLE SET

- Heat-treated steel, black oxide finish to prevent corrosion
- Use with 3/8" square drive ratchet
- Tough, durable, built to last
- Wrenches are specifically designed for 1 or 2 step models, fitting various flute designs on Fram, AC, Casite, Lee, Hastings, Motorcraft, NAPA, Purolator, STP, Pure One, Wix and some Japanese and European made filters

Individual Cap Wrenches:

	Metric Size	Decimal Equivalent	Flutes
H3371	74/76 mm	2.91/3.0"	15 - 2 steps
H3372	76 mm	3.00"	14
H3373	93 mm	3.66"	15
H3374	73 mm	2.875"	14
H3375	65/67 mm	2.56/2.63"	14 - 2 steps
H3376	68 mm	2.68"	14
H3377	80 mm	3.15"	15
H3378	90 mm	3.54"	15
H3379	80/82 mm	3.15/3.23"	15 - 2 steps
H3380	93 mm	3.66"	36
H3381	75/77 mm	2.95/3.03"	15 - 2 steps
H3382	65 mm	2.56"	14
H3383	76 mm	3.00"	30
H3384	100 mm	3.937"	15



H3370

## H3310

### OIL FILTER PLIERS

- For removal and installation of spin-on oil and fuel filters
- Self-adjustable. Spring action slip joint. Gripping jaws and cushion grip handles

Range: 2 1/4" - 6" (60 - 152 mm)



H3310

## H3700

### 14 PC 3/8" DRAIN PLUG SOCKET SET

- Fits oil drain plugs on most domestic, European and Asian vehicles
- Great for oil change professionals
- Bright-finished Chrome Vanadium steel sockets comes on a metal clip rail

Set includes:

H3700-10 8mm Hex	H3700-17 7mm Square
H3700-11 9mm Hex	H3700-18 8mm Square
H3700-12 10mm Hex	H3700-19 11mm Square
H3700-13 12mm Hex	H3700-20 13mm Square
H3700-14 14mm Hex	H3700-21 5/16" Square
H3700-15 17mm Hex	H3700-22 3/8" Square
H3700-16 10mm Female Square	H3700-23 10mm Male Triangle

**NEW**



H3700

## H3702

### 4 PC OIL FILTER CANISTER SOCKET

Set contents

H3702-10 24mm - Buick, Cadillac with WT-V6 Engines, Saturn L3000
H3702-11 27mm - Cadillac STS 3.2LT, V6, Mercedes 1.8LT I4 & VW
H3702-12 32mm - GM Ecotec Engines, SAAB & Saturn
H3702-13 36mm - Audi, BMW, Ford Trucks, Volvo and VW

- Specially designed low profile 3/8" sq. drive sockets used for removing oil filter canister cover on vehicles that have limited access
- Cartridge type oil filters are easier to change with these specialty sockets
- When using a conventional socket, the top side of the socket can contact other surrounding components which could cause damage or make it difficult to completely remove the oil canister cover
- Made from Chrome Vanadium Steel (CRV)
- Not for use with impact tools

**NEW**  
**AVAILABLE WINTER 2010**



H3702

# FASTENER



H3400

## H3400 **LE\*** 15-IN-1 MULTI-DRIVER SCREWDRIVER

- Features a patented pullout bit cartridge
- 14 of the most popular bits means one Hastings Multi-Driver replaces 14 screwdrivers and one 1/4" hex nut drive
- 2" double end bits are made of superior quality S2 steel for strength and durability – **Check and Compare!**
- Shaft is made of super high strength 12T14 steel for long life. – **Check and Compare!**
- End of shaft is a 1/4" hex nut driver
- Handle is made of durable nylon reinforced triax resin for longest life. – **Check and Compare!**
- Unique rotating cap design allows you to position the cap in the palm of your hand and rotate the driver handle with your fingers. The driver then acts like a gearless ratcheting screwdriver, increasing productivity while reducing blisters and operator fatigue
- Drivers are easy to use from both the left and right sides, allowing you to use them in tight, confined areas
- Collar also swivels 360° for fast, efficient driving of screws
- Made in the U.S.A.
- Drivers sold in 6 pack P.O.P display

### Bit load includes:

- Phillips H3400C (P0 & P3) H3400D (P1 & P2)
- Square H3400E (S1 & S2) H3400K (S0 & S3)
- Torx® H3400F (T10 & T15) H3400G (T20 & T25) H3400H (T27 & T30)
- Slot H3400J (F4 & F6)

**Distributors please note:** Drivers are sold in 6 pack P.O.P displays only.

## H1273 5 PC FLUTE TYPE SCREW EXTRACTOR SET

- Five extractors with sharp undercut edges to provide solid grip in studs, set screws, pipe and Alimite fitting
- Made from Chrome Molybdenum (Cr-Mo) 50 - 52 Rockwell hardness



H1273

	U.S.S. Screw or Bolt Size	Drill Size	Min. Depth of Hole	Pipe Size
--	------------------------------	---------------	-----------------------	--------------

H1273A	1/4", 5/16"	1/8"	3/8"	—
H1273B	3/8"	3/16"	1/2"	—
H1273C	7/16"	15/64"	1/2"	1/8"
H1273D	1/2", 9/16"	5/16"	1/2"	1/4"
H1273E	5/8"	3/8"	5/8"	3/8"

**CAUTION:** Always wear approved eye protection

## H1365 5 PC SPIRAL TYPE SCREW EXTRACTOR SET

- For removing broken screws, bolts and threaded parts. Spiral type flutes grip and remove the broken part
- Precision chrome Moly-steel 48-52 Rockwell Hardness, tapered and ground
- Comes in a convenient vinyl pouch



H1365

	Screw or Bolt Size	Drill Size	Pipe Size
--	-----------------------	---------------	--------------

H1365A	1/8 - 1/4"	5/16"	—
H1365B	1/4 - 5/16"	7/64"	—
H1365C	5/16 - 7/16"	5/32"	—
H1365D	7/16 - 9/16"	7/32"	—
H1365E	9/16 - 3/4"	17/64"	—

**CAUTION:** Always wear approved eye protection.

## H1456 4 PC SERRATED BITS

- For use on 12 point fasteners
- Triple square design. Alloy steel
- Made from Chrome Vanadium 6150 - 50 - 54 Rockwell Hardness

H1452	6mm	5/16"	Hex x 2-1/2" Long
H1453	8mm	5/16"	Hex x 3" Long
H1454	10mm	1/2"	Hex x 3-1/4" Long
H1455	12mm	1/2"	Hex x 3-3/4" Long



H1456



# FASTENER

## H1458

### 8 PC 3/8" DR. TRIPLE SQUARE BIT SOCKET SET

- Bit sockets are 3/8" sq. dr. with a black oxide tip, matte finish and made from SNCM 8660 steel
- For use on triple square fastener bolts typically found on European vehicles (especially German)
- For use on cylinder heads, axle shafts, rear toe adjusters, differentials, transmission drain plugs, clutches, belly pans, brake calipers and more
- Other uses include: Detroit Diesel flywheel bolts, crank pullers on 900 & 4000 series engine, and headbolts on 900 series
- Bit sockets are NOT designed for use with power impact tools

#### Set contains:

<b>H1458-10</b>	4mm	<b>H1458-14</b>	10mm
<b>H1458-11</b>	5mm	<b>H1458-15</b>	12mm
<b>H1458-12</b>	6mm	<b>H1458-16</b>	14mm
<b>H1458-13</b>	8mm	<b>H1458-17</b>	16mm



H1458

**CAUTION:** Triple square bit sockets may strip the head of double hex bit fasteners found on many Asian vehicles

## H3056

### UNIVERSAL LOCK RING PLIER

- Removes and installs lock rings used on brakes, transmissions, pedal shafts and clutch shafts
- The scored jaws hold rings securely



H3056

## THREAD FILES

<b>H1440</b>	S.A.E.	Coarse	11, 12, 13, 14, 16, 18, 20, 24 (threads / inch)
<b>H1441</b>	S.A.E.	Fine	9, 10, 12, 16, 20, 27, 28, 32 (threads / inch)
<b>H1442</b>	Metric		0.75, 1.0, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00mm

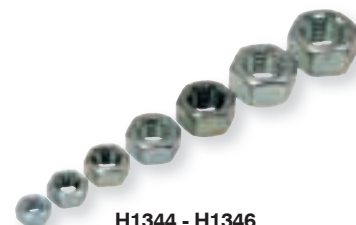


H1440 - H1442

## RETHREADER DIE SETS

- Hex shape lets you use a common socket for a holder
- Will quickly and safely repair damaged threads on bolts or rods
- Each set packed on ball chain

<b>H1344</b>	7 PC Dies	<b>Coarse</b>	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8 For replacement parts see <b>H3573-10</b> to <b>H3573-15</b>
<b>H1345</b>	7 PC Dies	<b>Fine</b>	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8 For replacement parts see <b>H3573-23</b> to <b>H3573-29</b>
<b>H1346</b>	5 PC Dies	<b>Metric</b>	6mm x 1.0, 7mm x 1.0, 8mm x 1.25, 10mm x 1.50, 12mm x 1.50 Use <b>H1346-11</b> for 7mm x 1.0 Die For balance use replacements parts <b>H3573-36</b> to <b>H3573-41</b>



H1344 - H1346

**CAUTION:** Do not use to cut new or hardened threads

## 4 PC STUD PULLER SETS

- Remove threaded studs without damaging the threads
- Use with ratchet, breaker bar or wrench
- Made from heat treated alloy steel
- 1/4", 5/16", 6mm, 8mm all 3/8" Sq. Drive & 3/4" (19mm) Hex Socket
- 3/8", 7/16", 10mm, 12mm all 1/2" Sq. Drive & 7/8" (22mm) Hex Socket
- Comes in a convenient blow mould storage case

<b>H3569</b>		S.A.E.	<b>H3569-10</b>	1/4"	<b>H3569-12</b>	3/8"
			<b>H3569-11</b>	5/16"	<b>H3569-13</b>	7/16"
<b>H3570</b>		Metric	<b>H3570-10</b>	6mm	<b>H3570-12</b>	10mm
			<b>H3570-11</b>	8mm	<b>H3570-13</b>	12mm



H3569 - H3570

# FASTENER



H3571

## H3571 **LE\*** 15 PC RE-THREADING SET - METRIC

- Repair or renew damaged threads on nuts, bolts, or studs
- Hex-shaped for socket or wrench use
- Comes in a convenient blow mould storage case

**Kit includes:**

**Die Sizes** 6mm x 1.0, 8mm x 1.25, 10mm x 1.25, 10mm x 1.50, 12mm x 1.25, 12mm x 1.50, 12mm x 1.75

For replacement dies see Prod. No. **H3573-36** to **H3573-42**

**Tap Sizes** 6mm x 1.0, 8mm x 1.25, 10mm x 1.25, 10mm x 1.5, 12mm x 1.25, 12mm x 1.5, 12mm x 1.75

For replacement taps see Prod. No. **H3573-43** to **H3573-49**

**1 Thread File** H1442 Metric 0.75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00mm (4 sided)

**CAUTION:** Do not use with power or impact tools



H3572

## H3572 **LE\*** 8 PC FRONT AXLE SPINDLE RE-THREADING DIE SET

- Used to clean or re-thread axle threads on most domestic and imported front wheel drive vehicles
- Use with 1-1/4" socket or wrench
- Comes in a convenient blow mould storage case

**Kit includes:**

**Die Sizes** H3572-10 M20 x 1.25 H3572-14 M24 x 1.50

H3572-11 M20 x 1.50 H3572-15 M24 x 2.00

H3572-12 M22 x 1.0 H3572-16 3/4" x 20UNF

H3572-13 M22 x 1.50 H3572-17 13/16 x 20UNF



H3573

## H3573 **LE\*** 43 PC RE-THREAD SET UNC, UNF, METRIC SIZES

- A comprehensive re-thread kit for repairing or renewing damaged threads on nuts, bolts or studs
- Hex-shaped for socket or wrench use
- Comes in a convenient blow mould storage case

**Kit includes:**

**21 Dies**

**UNC - National Coarse (Silver)**

H3573-10 1/4"-20

H3573-14 1/2"-13

H3573-11 5/16"-18

H3573-15 9/16"-12

H3573-12 3/8"-16

H3573-16 5/8"-11

H3573-13 7/16"-14

**UNF - National Fine (Black)**

H3573-23 1/4"-28

H3573-27 1/2"-20

H3573-24 5/16"-24

H3573-28 9/16"-18

H3573-25 3/8"-24

H3573-29 5/8"-18

H3573-26 7/16"-20

**Metric (Gold)**

H3573-36 6mm x 1.00

H3573-40 12mm x 1.25

H3573-37 8mm x 1.25

H3573-41 12mm x 1.50

H3573-38 10mm x 1.25

H3573-42 12mm x 1.75

H3573-39 10mm x 1.50

**19 Taps**

**UNC - National Coarse (Silver)**

H3573-17 1/4"-20

H3573-20 7/16"-14

H3573-18 5/16"-18

H3573-21 1/2"-13

H3573-19 3/8"-16

H3573-22 9/16"-12

**UNF - National Fine (Black)**

H3573-30 1/4"-28

H3573-33 7/16"-20

H3573-31 5/16"-24

H3573-34 1/2"-20

H3573-32 3/8"-24

H3573-35 9/16"-18

**Metric (Gold)**

H3573-43 6mm x 1.00

H3573-47 12mm x 1.25

H3573-44 8mm x 1.25

H3573-48 12mm x 1.50

H3573-45 10mm x 1.25

H3573-49 12mm x 1.75

H3573-46 10mm x 1.50

**3 Thread Files** H1440 S.A.E.  
H1441 S.A.E.  
H1442 Metric

**Coarse** 11, 12, 13, 14, 16, 18, 20, 24  
**Fine** 9, 10, 12, 16, 20, 27, 28, 32,  
0.75, 1.00, 1.25, 1.50, 1.75,  
2.00, 2.50, 3.00mm

# HAND BRUSHES

## H1045 WIRE UTILITY BRUSH

- Use on side terminal battery clamps, distributors, light sockets
- Also useful for cleaning 1/2" copper fittings when sweating joints



H1045

## H1021 HAND WIRE BRUSHES

- Overall length 10"
- Brush area 5" x 1-1/16"
- Hardwood handles



H1021

## H1039 PARTS CLEANING BRUSH

- Chemical resistant bristles are crimped to hold more fluid for faster cleaning
- The bristles are tapered to get into tight places
- Plastic handle



H1039

## H3092 FLOW-THRU PARTS CLEANING BRUSH

- Fits most parts washers. The 24" hose fits 1/4" & 3/8" bore parts washer nozzles
- Bristles are made of hi-flex nylon, guaranteed not to mushroom
- Brush assembly non-metallic makes it safe in the presence of electricity



H3092

# SCRAPERS & KNIVES

## H1363 FOLDING SCRAPER

- All purpose use scraper. Locks in three positions
- Handy to remove inspection stickers, paint, masking tape and general scraping jobs
- Rugged steel construction
- One steel blade included
- Replacement blade use H1363A - package of 5 blades or H1363C box of 100 blades



H1363

## H1364 SCRAPER WITH EXTENDED ARM

- All purpose scraper
- Designed to reach into those hard to reach areas to remove inspection stickers, paint, masking tape and general purpose scraping
- Ergonomic handle with steel shaft
- One steel blade included
- Replacement blade use H1363A - package of 5 blades or H1363C box of 100 blades
- Length: 12-1/2" ( 317.5mm)



H1364



## H3237DA MINI RAZOR-BLADE SCRAPERS

- Sturdy scraper for home, auto or shop
- Compact pocket size
- Removes stickers, labels, paint etc
- Colourful easy grip cushioned handle
- Uses standard single edge razor blades (see above)



H3237DA

### H3237DA Cookie Jar Counter Display Assortment

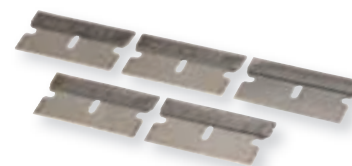
- Contains 30 – mini scrapers in 5 assorted coloured handles
- Replacement blades use H1363A or H1363C - see above

## SINGLE EDGE RAZOR BLADES

Steel blades fit all single edge blade holders

H1363C 100 per box

H1363A 5 steel blades



H1363A

# BATTERY



H1905

## H1905 SMALL GEAR & BEARING PULLER

- Unique spring action permits one-handed operation
- Forces the jaws tighter as more pressure is applied to the pressure screw
- The pressure screw has a protector on the end to prevent damage to the object being pulled
- **Capacity: 1-1/4"**. Ideal for small bearing, battery terminals and other small pulling jobs
- All parts are plated for rust and corrosion protection



H3125

## H3125 SIDE TERMINAL BATTERY WRENCH

- Designed to easily remove 5/16" side terminal battery bolts
- Insulated handle to prevent electrical shock
- Reversible **5/16"** ratcheting box wrench allows for quick and effective terminal bolt removal



H1279

## H1279 GRIP-TIGHT BATTERY CARRIER

- For most **6 & 12 volt** batteries
- Rugged, zinc plated steel jaws grip battery securely for lifting
- Acid resistant, non-conductive strap
- Designed to carry side terminal or post batteries. Easy one hand control



H1007

## POST & TERMINAL BRUSHES

- Remove corrosion quickly and safely. Cleans battery post and terminals for perfect electrical contact
- Also useful as a wire cleaning brush for cleaning 1/2" copper pipe before sweating

### H1007 Metal Case



H1677

## H1677 BATTERY POST & CLAMP CLEANER

- Quickly and safely cleans even the most corroded terminals
- Double ended post cleaner handles both the positive and negative posts
- The tapered reamer cleans both size terminals
- Constructed of high quality steel and shock proof plastic



H3391

## H3391 BATTERY POST & TERMINAL CLEANER

- Cleans and reams battery posts and terminals
- Post cleaners marked with positive and negative symbols for easy identification



# BATTERY

## H3432

### 100 AMP BATTERY LOAD TESTER

- Tests **6 and 12 volt batteries** up to 1,000 CCA
- Tests battery state of charge, battery cranking ability, charging system output and starter condition
- Top mounted rocker switch is more convenient and easy to use
- Rubber insulated carrying handle for both comfort and safety
- Unit does not contain asbestos
- Accurate and shock resistant movement
- Easy to read meter
- Heavy duty colour coded, insulated clamps
- Durable, ventilated blue enamel steel case
- Complete tests done in 10 seconds
- Outside power is not required
- True **100 amp** load capacity – **Check and Compare!**



H3432

TRUE  
100AMP



## H3650

### DIGITAL BATTERY LOAD TESTER

- Test 12 volt batteries only up to 1,000 CCA
- Microprocessor controlled design guarantees an easy & accurate load test and no need to time yourself
- Unique 3 step design: LED polarity checking function, battery state of charge & charging system test readout
- Check both battery & charging systems
- Durable, ventilated enamel steel case
- Completely portable; outside power is not required
- True **100 amp** load capacity – **Check and Compare!**
- Tests: Battery state of charge, Battery cranking ability, Charging system output Starter test



H3650

TRUE  
100AMP



## H3655

### 500 AMP CARBON PILE BATTERY TESTER

- 500AMP variable load carbon pile tester
- Colour-coded, temperature compensation pass/fail bands on the voltmeter insures precise battery load test results
- Separate voltmeter and ammeter, for easy monitoring
- Tests batteries up to 1000CCA
- Fully insulated, heavy duty, colour coded battery clamps & wire leads
- For 12V batteries, alternators, regulators & starters systems
- Designed with built in 15 second load warning beeper
- Meets UL and CE standards

**Please Note:** There are many 500 amp carbon pile battery tester and charging system analyzers in the market. While they all look the same from the outside, our unit has many important features that ensure a premium quality tester. Our carbon piles are made from the best quality, superior performing materials. Our steel parts are made with patented "constant-pressure/constant current" steel. The fasteners and soldering materials and assembly technology insure the components and connection stay secure.

We use heavy duty 4 gauge welders' grade cable wire where competitors may use lighter gauge cable. These superior components and design qualities offer greater stability and more accurate readings while minimizing heat build up.



H3655

Superior heavy duty 4 gauge welders grade cable wire – Check and Compare!

# OBDII CODE READERS



H3635

## H3635 OBDII CODE READER

- Supports all OBDII protocols, including the new Controller Area Network (CAN) protocol
- It is able to retrieve same information as large expensive scanners
- Works with all 1996 and newer vehicles that are OBDII compliant (including CAN)
- Reads & clears generic & manufacturer specific Diagnostic Trouble Codes (DTCs) & turn off the check engine light
- Supports Multiple trouble code requests: generic codes, pending codes and manufacturer specific codes
- Reviews the emission readiness status of OBD monitors
- Determines the malfunction indicator lamp (MIL) status
- Retrieves VIN (Vehicle Identification No.) on 2002 and newer vehicles that support Mode 9
- Easy-to-read backlit 2-line LCD display
- Easy to use with one plug-in
- Stand-alone unit with no need for an additional laptop computer to operate
- Small size and conveniently fits in your palm
- Safely communicates with the on-board computer
- Free CD software with over 7000 DTC definitions
- No batteries needed-powered via detachable OBDII cable
- **Display:** Backlit LCD, 2-line, 8 column.
- **Operating Temperature:** 0 to 50°C (-32 to 122°F)
- **Storage Temperature:** -20 to 70°C (-4 to 158°F)
- **Power:** 10.0 to 15.5 Volts provided via vehicle data link cable.
- **Dimensions:** 113mm (4.4") x 74mm (2.91") x 21mm (0.83")
- **NW:** 0.25Kg (0.45lb), GW: 0.27Kg (0.50lb)



H3640



## H3640 OBDII / EOBD SCANNER

- The new generation of automotive code readers that supports all OBDII protocols, including the new Controller Area Network (CAN) protocol.
- Allows users to keep up with the latest development in automotive diagnostic scanning.
- Reads generic codes (P0, P2, P3, U0) and manufacturer specific codes (P1, P3 and U1).
- Erases Diagnostic Trouble Codes (DTCs) and reset Check Engine Light.
- Free CD software with over 7000 DTC definitions.
- Displays I/M Readiness Status and state OBD check.
- Detects OBDII Freeze Frame Information.
- Determines the malfunction indicator lamp (MIL) status.
- Identifies and display Pending Codes.
- Retrieves VIN (Vehicle Identification No.) on 2002 and newer vehicles that support Mode 9.
- Wider vehicle coverage with CAN Protocol support
- Displays total No. of codes retrieved.
- Code definitions displayed on unit screen.
- Memory / battery backup for off-vehicle data review and analysis.
- Unit upgradeable via flash programming.
- Easy to use with friendly menu interface.
- Large, 128 x 64 easy-to-read backlit LCD display with adjustable contrast.
- Hot keys for quick Read & Erase.
- Detachable 16-Pin OBDII cable.
- **Display:** 128 x 64 Backlit LCD display.
- **Operating Temperature:** 0 to 50°C (-32 to 122°F)
- **Storage Temperature:** -20 to 70°C (-4 to 158°F)
- **External Power:** 9 Volt Cell and 10.0 to 15.5 Volts provided via vehicle.
- **Internal Power:** 10.0 to 15.5 Volts provided via vehicle data link cable.
- **Dimensions:** 200mm (7.8") x 90mm (3.5") x 34mm (1.3").
- **NW:** 0.60Kg (1.3lb), GW: 0.8Kg (1.8lb)

# INSPECTION TOOLS

## H3680 REFRACTOMETER – FLUID TESTER

- Designed to test the concentration of antifreeze, battery and wiper fluid  
The percentage indicator shows the point of freezing for both Propylene Glycol and Ethylene Glycol
- It can also be used to check the strength of the Electrolyte solution found in batteries

### Range

Ethylene Glycol	(antifreeze)	-50°C to 0°C
Propylene Glycol	(antifreeze)	-50°C to 0°C
Electrolyte	(battery)	1,100 to 1,400sg
	(wiper fluid)	-40°C to 0°C

### Min. Div.

Ethylene Glycol	(antifreeze)	5°C
Propylene Glycol	(antifreeze)	5°C
Electrolyte	(battery)	0.01sg
	(wiper fluid)	5°C

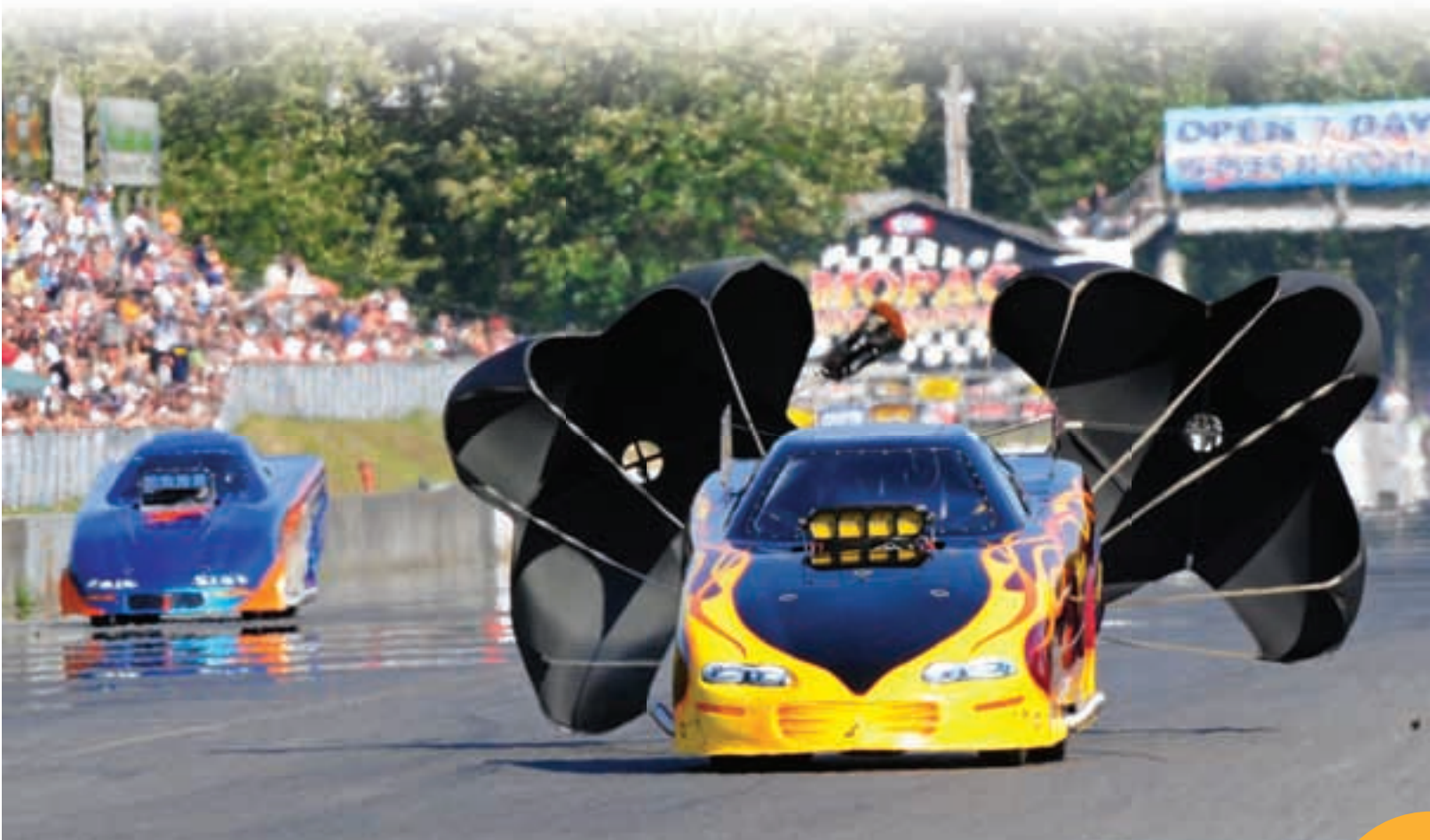
### Accuracy

Ethylene Glycol	(antifreeze)	± 5°C
Propylene Glycol	(antifreeze)	± 5°C
Electrolyte	(battery)	± 0.01sg
	(wiper fluid)	± 5°C

**NEW**



H3680





# ELECTRICAL TESTERS



H1090

## H1090 **LE\*** 6-12 VOLT CIRCUIT TESTER

- Test electrical circuits, relays, bulbs, and switches
- Attach the ground clip to any good electrical ground and touch the probe to the hot end. If the bulb lights up, the circuit is good
- Bulb will take a nominal overload for safety. Uses standard replacement bulb
- Hi-impact, no shock, plastic case

H1090C Replacement Bulb



Large Heavy Duty Clamp

## H1493 **LE\*** DELUXE 36 VOLT CIRCUIT TESTER

- Test all voltages from 6 - 36 volts
- A special high voltage neon tube to test spark plugs and spark plug wiring
- The coiled wire lead extends up to 6 feet and retracts compactly
- Heavy duty large type clamp
- A very good all around tester

H1090C Replacement Bulb



Coiled Wire  
H1493



H3344

## H3344 **LE\*** CIRCUIT TESTER WITH BUZZER

- Bulb lights and buzzer sounds when positive contact has been made
- Ideal for use in tight spaces or under bright lights where a light is difficult to see
- Tests **6 - 12 - 24 volt "power-on"** circuits
- Clip enclosed in anti-shock boot
- Has long life LED bulb
- **Extra long 42" 16 - gauge wire**



H3068

## H3068 **LE\*** CIRCUIT & POLARITY TESTER

- Designed to be used on all 12 volt circuits including automotive computer circuits without damage to sensitive electronic components
- It draws less than 21 milliamps at 12 volts DC with an **operating range of 3 - 15 volts**
- Has a long life LED bulb
- Glows red to indicate positive polarity at probe and green to indicate negative polarity



H1304

## H1304 **LE\*** CONTINUITY TESTER

- Self-powered tester will check all voltage circuits and wiring, with the vehicle power off
- Uses standard AA battery. Battery not included
- Test radio, T.V., appliances, electrical circuits, switches, voltage regulators, coils, fuses, condensers, armature and alternator diodes
- Bulb is mini screw base 1.5 V industry standard No. 112, purchase locally
- **Lead is 36" long.**



H1361

## H1361 **LE\*** REMOTE STARTER SWITCH

- Remote switch allows the mechanic to crank engine from beside or beneath auto or truck while keeping hands away from fan blades, gears, or other moving parts
- Heavy duty switch contacts reduce arcing. Rubber "boots" protect clamps from dirt or grease.
- May be used to open and close other low voltage circuits
- **Leads are 35" long**



H1385

## H1385 TEST LEAD KIT

- **Two 32" red and black jumper leads**
- **16 gauge standard wire** with alligator clips



H3442

## H3442 **L** GM CODE RETRIEVER TOOL

- Designed to retrieve engine, rear wheel and four wheel anti-lock trouble codes
- The key probes are designed to jump the terminals on the assembly line data link connector (ALDL) to activate the trouble codes
- To interpret the trouble codes, refer to a proper repair manual



# SPARK PLUG & IGNITION

## H1095 2 PC DISTRIBUTOR CLAMP WRENCH

- Use with any 3/8" drive ratchet or extension
- It gets into those hard-to-reach distributor clamp bolts
- Chrome plated, hardened tool steel

Sizes: 1/2" & 9/16" Hex



H1095

## H3126 FORD™ IGNITION MODULE WRENCH

- 2 tools in one
- **One end of wrench has a 7/32" (5.5mm) hex wrench** used on most late model Ford™ cars & trucks. **The other end is a T20 Torx® bit** required for earlier models
- Specifically designed with 25° offset and left or right hand ratcheting on both ends to assist in removal or installation of hard to get at Ford™ Ignition Modules without removing or tampering with the distributor



H3126

## H1866 IGNITION POINT & MACHINE FILES

- These double cut ignition files are made from high quality steel with Rockwell hardness of 65. Easily cuts tungsten or platinum contact points
- Used on ignition points, spark plugs, relays, circuit breakers and much more



H1866

## H1005 SPARK PLUG FIRING INDICATOR

- Capacitive type spark plug firing indicator
- No need to puncture cable. Clip alligator-clip to a clean ground, then simply hold on wire and check firing of bulb through slot in the side of the plastic tube



H1005

## H1712 SMALL ENGINE SPARK TESTER

- Spark tester connects between the end of the spark plug wire and the spark plug itself. Crank engine. If ignition output is OK, the neon lamp in the tester will blink
- Spark is totally contained. No danger of accidental shock or possible explosion from stray gas fumes
- Engine will run with spark tester attached. Will not cause ignition cutout



H1712

## H3143 IN-LINE IGNITION SPARK TESTER

- Connects in-line between spark plug and spark plug wire. Shows a duplicate view of the ignition spark. Technician can visually check condition of each cylinder
- Frequency and intensity of flash pattern indicates whether there is an ignition or fuel delivery system problem. Flash can be seen in bright sunlight
- Clear plastic body can withstand rough use and resists automotive chemicals
- Flexible wire protected by mechanical strain relief
- Instructions included



H3143

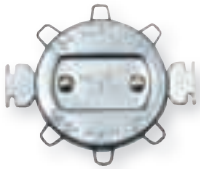
## H3295 ANGLED SPARK PLUG BOOT PLIERS

- Designed to protect against plug wire and boot separation
- Handle and jaws are vinyl coated to insure complete insulation and non slip-grip
- Overall length: 9-3/4"



H3295

# SPARK PLUG & IGNITION



H1274



H1276



H3116



H1067



H1066



H3080



H2115



H3054

## SPARK PLUG GAUGES

- Popular, round pocket size wire gauges marked in thousandth on one side, metric on the other.
- Includes electrode adjuster. Available in two ranges

**H1276** **High Energy Range**  
Gap Sizes .040, .044, .045, .050, .060, .080

**H1274** **Regular Range**  
Gap Sizes .025, .030, .034, .035, .040, .045

## H3116 SPARK PLUG GAUGE & GAPPER

- For standard and H.E.I. ignition
- Has tapered ground edge for gapping plugs. Adjusting hole with flange to adjust side wire without pressuring center electrode
- Has both metric and decimal markings
- Gaps all plugs from .020 - .100 (0.50 - 2.5mm)

## THREAD CHASERS

- For spark plug holes.
- Chaser cleans threads of dirt, carbon build-up and metal particles. Services most applications including compacts and subcompacts.
- Rubber ring holds chaser firmly in socket.

**H1067** **Dual Sizes: 10mm & 14mm**  
• Use with 5/8" deepwell socket.

**H1066** **Dual Sizes: 14mm & 18mm**  
• Use with 13/16" deepwell socket.

**H3080** **Spark Plug Thread Chaser - 14mm**  
• Cleans threads on regular and deeply recessed plug ports  
• Features 5/8" hex and 3/8" square drive  
• Use with 5/8" extended spark plug socket **H3054**

## H2115 RETHREADER KIT

- For 14mm spark plug holes
  - Replace damage threads on aluminum heads only
  - Special design tap cuts a square thread, the outside thread of the insert has a special design that digs into the new square thread to secure it into place
  - Solid steel insert – Outside is 5/8" – 18 Oversized thread. Inside is 14mm x 1.25 pitch diameter
- Kit includes:** 1 repair tap and reamer, plus 1 each 3/8", 7/16", 1/2", 3/4" long inserts

### Replacement Parts:

**H2115A** Repair Tap and Reamer **5/8", 18 Oversized Thread, Hex Head**

**H2115B** Repair Insert (2) **3/8" (9.5mm) Long**

**H2115C** Repair Insert (2) **7/16" (11.5mm) Long**

**H2115D** Repair Insert (2) **1/2" (13mm) Long**

**H2115E** Repair Insert (2) **3/4" (19mm) Long**

## H3054 5/8" SPARK PLUG SOCKET

- For deep recessed spark plugs
- Knurled outside for better gripping and hand turning.
- Rubber insert protects and holds spark plug while installing
- **Overall length: 4 1/2"**
- Use with 3/8" square drive or 3/4" socket

# SPARK PLUG & IGNITION

## H3659

### FORD™ TRITON SPARK PLUG PORCELAIN EXTRACTOR KIT

- Designed to extract frozen and broken spark plug ground electrode shields in Ford™ Triton engines 2004 to present - 4.6, 5.4, 6.8 V-10
- Using these special tools and a strong epoxy you should be able to extract the broken porcelain left behind when spark plug removal was attempted
- The advantage of this method of extraction is to prevent broken pieces of porcelain from entering the combustion chamber
- Ford™ specifically does NOT recommend pushing the broken porcelain down into the cylinder. Doing so would mean the removal of the cylinder head

#### Kit contains:

- 1- Epoxy Applicator with guide, 1- Epoxy Electrode Applicator & Extractor Assembly, 1-Small tube of bonding adhesive (Loctite)
- Replacement adhesive use Loctite No. 638 or Permatex No.64000 or 64040.

#### Replacement Parts:

- H3659-10** Epoxy Applicator
- H3659-11** Epoxy Pins - 10 Pack

**NEW**



H3659

## H3660

### FORD™ SPARK PLUG THREAD REPAIR KIT

- Designed to aide in repairing spark plug threads damaged on Ford™ Triton Modular Engines - 1996-2003 - 4.6, 5.4, 6.8 V-10
- Becoming one of the most asked for repairs as these engines age
- Repair damaged cylinder heads from spark plug thread erosion and shooting spark plugs out during operations with a patented "Alloy Steel Insert"
- Foolproof repair system that is fast, cost effective and simple to use
- Takes as little as 15 minutes, no more than 45 to repair one cylinder

#### Kit includes:

- 1 tap each, Core Drill, Guide, Hose Assembly, Instructional DVD, 6 - m14 x 1.25 repair inserts

#### Replacement Parts:

- H3660-10** Spark plug insert

**NEW**



H3660

## H3661

### FORD™ TRITON SPARK PLUG SHIELD EXTRACTOR KIT

- Designed to extract frozen and broken spark plug ground electrode shields in Ford™ Triton engines 2004 to present - 4.6, 5.4, 6.8 V-10
- The elongated plug has a stainless steel shield – as the carbon deposit builds-up, the shield sticks and stays in the cylinder head spark plug well
- Use the specially machined guide with the tap (9mm x 8"L) (203.2 mm) to tap the shield
- Use the extractor to pull out the stainless steel sleeve
- Problem solved; saving time and huge expense

#### Kit includes:

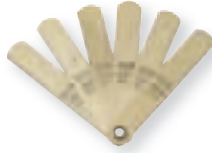
- 1 each: Guide, Tap 9mm x 1.0 x 8"(203.2mm), Extractor, Nut and Washer, 4-rubber stopper caps in a blow mould case

**NEW**



H3661

## FEELER GAUGES



H1137

### H1137 **NON-MAGNETIC FEELER GAUGE**

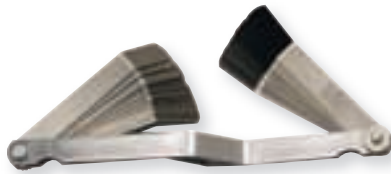
- The blades are made of non-magnetic brass and will not affect the electronic components of the distributor
  - Five blades cover the sizes needed. Metric equivalent marked on blade
- Blade Thickness:** .006 .008 .010 .012 .014 .016



H1859

### H1859 **UNIVERSAL MASTER FEELER GAUGE**

- .0015 plus .002 to .035
  - Metric equivalents marked on blades
  - Made from C1095 heat-treated carbon steel
- Blade Size:** 3" x 1/2", 25 Blades  
**Blade Thickness:** .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



H1863

### H1863 **EXTRA LENGTH OFFSET FEELER GAUGE**

- 21 Blades
  - Made from C1095 heat-treated carbon steel
- Blade Sizes:** 4" x 1/2", 1"-45° offset  
**Blade Thickness:** .006 .007 .008 .009 .010 .011 .012 .013 .014 .015 .016 .017 .018 .019 .020 .021 .022 .023 .024 .025 .026



H3105

### H3105 **22 BLADE GO, NO-GO FEELER GAUGE**

- Made from C1095 heat-treated carbon steel
- Blade Sizes:** 3" x 1/2" Step Ground  
**Blade Thickness:** .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



H3510

## WIRE STRIPPERS & CRIMPERS

### H3510 **COMBINATION WIRE CUTTER / STRIPPER**

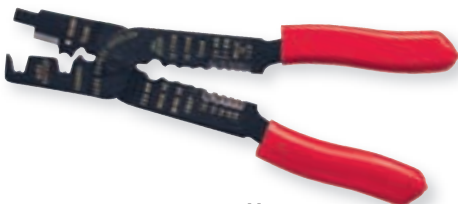
- Cuts soft wire with one end, grab and strip with the other
- **Stripper self-adjusts to soft copper wire sizes 26 – 14 AWG**
- The cutting head is full-flush cutting and low profile with stainless steel, induction hardened jaws



H3515

### H3515 **COMBINATION WIRE CUTTER / STRIPPER**

- Cuts soft wire with one end, grab and strip with the other
- **Stripper self-adjusts to soft copper wire sizes 14 – 10 AWG**
- The cutting head is full-flush cutting and low profile with stainless steel, induction-hardened jaws



H3059

### H3059 **IGNITION CRIMPING TOOL / STRIPPER**

- 7 & 8mm ignition terminal (precrimp), W or F style crimps
- High tower right angle terminals
- All solderless crimps, butt splice, brazed seam, PCV and nylon
- **Cuts and strips 7 & 8mm ignition wire and 10 - 18 gauge primary wire**
- Cushion grip handles
- **Overall length: 9-1/2"**



# GENERAL PURPOSE

## H1858

### NUT SPLITTING TOOL

- For removal of rusted or corroded nuts. It will **split nuts up to 3/4"** across flats, just a few turns with any 3/4" hand wrench (no power needed)
- Especially handy for front and rear shock absorber stud-end nuts
- **Overall length: 4-1/8"**



H1858

## H3052

### SEAL PULLER

- Easily removes oil and grease seals on automobiles and light trucks
- Two different tips reach in and fit most seals



H3052

## H3521

### LOW PROFILE SEAL PULLER

- Works on most seals, even import seals with limited access
- Low profile blade and angled shaft allows it to fit into those tight spaces.
- Heavy-duty chock handle allows for better leverage
- Blade is made from alloy steel and heat treated for superior strength



H3521

## H1659

### SUCTION GUN

- An all purpose filling and draining unit
- Durable steel construction with a 12" flexible hose
- Holds 20 oz



H1659

 **CAUTION: Not for use with gasoline**

## H3500

### ARM & PALM PROTECTOR

- A full 18" in length, these are knit from 100% Kevlar fibers
- These double layered sleeves provide cut resistance, flexibility and comfort
- Protects the forearms and palms from minor burns
- A thumb slot prevents the sleeve from twisting while in use. One size fits all



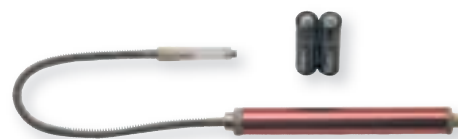
H3500

## H3412

### 17" BEND-A-LIGHT

- Flexible probe light with magnetic tip
- Metal shaft bends around corners and into tight areas
- Plastic handle
- Uses two AA batteries – Included

**H3412A** Replacement Bulb



H3412

## BRASS PUNCHES

- Ideal when sparks from a steel punch would be dangerous
- A must for those driving jobs where a soft punch is required

**H3095** Brass Tapered Punch    **5/8" hex to 3/8" point**

**H3096** Brass Drift Punch    **3/4" diameter - knurled grip**



H3095



H3096

## H3106

### CHAIN WRENCH

- Unique head design permits turning in either direction
- Ratcheting action allows re-gripping of piece without removal
- Fits all kinds of shapes: round, square, hex from 5/8" - 5" (15,87 - 127,00mm) in diameter
- 13" handle



H3106

## GENERAL PURPOSE



H1244

### H1244 **MECHANIC'S PICKS**

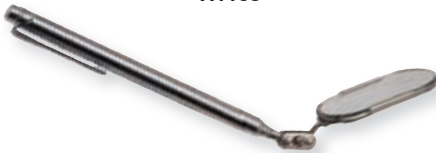
- 4-in-1 tool
- Good quality metal scribes designed at different angles to meet the mechanic's needs
- Comes complete with 4 picks and one master handle. Handy storage pouch



H1105

### H1105 **ROUND TELESCOPIC MIRROR**

- Double ball joint links swivel mirror for viewing to 360°
- Linkage designed to withstand constant repositioning of mirror, to move freely and yet hold desired position
- **2-1/4" round mirror with telescoping handle: 9-1/2" - 14"**



H1230

### H1230 **POCKET OVAL TELESCOPIC MIRROR**

- Double ball adjustment head. Convenient pocket clip
- **1" x 2" oval mirror with telescoping handle: 6-3/4" - 24-3/4"**



H3103

### H3103 **LARGE RECTANGULAR TELESCOPIC MIRROR**

- Double ball joint hinge adjusts to almost any angle
- Handle end has easy grip vinyl coating
- **2-1/8" x 3-3/8" rectangular mirror with telescoping handle: 11" - 15-1/2"**



H1080

## PICK-UP / MAGNET

### H1080 **MECHANICAL FLEXIBLE PICK-UP**

- Bends in any direction to hold or pick up objects
- Handy squeeze action gives close control
- Mechanical fingers grip securely
- **Reach: 15"**



H1386

### H1386 **TELESCOPING POCKET MAGNET**

- **Extends up to 23"**
- **Lifts up to 3-1/2 lbs**



H1122

### H1122 **LONG TELESCOPING MAGNET**

- This heavy duty "ALNICO" magnet will lift many times its own weight
- The flex head gets into tight places
- Bright plated with a comfortable plastic handle
- **Shaft telescopes from 16-3/4" - 26-3/4"**
- **Lifts up to 5 lbs**



H1229

### H1229 **FLEXIBLE SHAFT MAGNET**

- Flexible "ALNICO 5" magnetic pickup tool with knurled handle
- Flex shaft holds its set
- **Length: 21" Diameter: 5/16"**
- **Lifts up to 5-1/2 lbs.**

## PICK-UP / MAGNET

### H3086 BEND-IT-MAGNET

- Has a bendable shaft to shape and reshape time and time again
- Retrieves all types of metal objects in those hard to reach areas
- The neodymium iron-boron magnet has out-performed other magnets its size by 4-to-1
- **Lifts up to 1-1/4" lbs**
- O.A.L - 22" (558,8mm)



H3086

### H3511 FLEXIBLE LIGHTED MAGNETIC PICKUP

- Super bright long lasting LED light at the tip means you can see what you need to pick up
- Designed with a **5 lb. lifting capacity** rare earth magnet encased in a brass sheild, so the force is directed to the target – won't grab peripheral objects
- Thin flexible shaft bends to any angle
- Protective coating on the shaft prevents rust and corrosion
- **Reach: 23" (584mm)**
- Includes three button cell batteries, 1.5 volts



H3511

Magnetic end complete with LED Light!

### H3512 TELESCOPIC LIGHTED MAGNETIC PICKUP

- Super bright long lasting LED light at the tip means you can see what you need to pick up
- Designed with a **5 lb. lifting capacity** rare earth magnet encased in a brass shield, so the force is directed to the target – won't grab peripheral objects
- **Reach: 7 - 26" (177 - 660mm)**
- Includes three button cell batteries, 1.5 volts



H3512

## TIRE SERVICE

### TIRE GAUGES

#### H1141 PENCIL TIRE GAUGE

- Quality gauge ensures accuracy, long life and trouble-free performance.
- High chrome plated finish
- **Calibrated on two sides from 5 - 50 psi and in metric 40 - 350 Kpa.**
- Comes with handy pocket clip

#### H3262 PENCIL TIRE GAUGE

- Durable Metal chuck and body
- Handy pencil style with pocket clip
- 4 sides plastic slide bar
- **Calibrated in 5 - 50 psi & 40 - 350 Kpa**

Distributors please note: H3262 tire gauges are sold in an attractive 24 pack P.O.P displays only.

#### H3162 SMALL DUAL CHUCK TIRE GAUGE

- **Accurately measures from 10 - 120 psi. Also calibrated in Kgs**
- Chrome plated ABS dual offset heads. Stem enclosed in metal body. Shockproof
- Includes spring pocket clip
- **Overall length: 6-3/4"**



H1141



H3262



H3162

## TIRE SERVICE

### H1503 **LARGE DUAL CHUCK TIRE GAUGE**

- Dual chuck for use on trucks and passenger cars. Will withstand rugged use
- Angled dual chuck to reach inner and outer tire valves
- **Indicator bar calibrated 10/200 psi in 2 lb. increments and metric 1/14 Kgs**
- Includes hang up ring
- **Overall length: 13"**

### H3274 **360° SWIVEL ANGLE / STRAIGHT-ON TRUCK TIRE GAUGE**

- Heavy duty truck tire gauge
- Head assembly swivels 360°
- Easy-to-read, recessed sight glass
- Needle holds reading until bleeder valve is released
- High chrome plated finish
- **Pressure range 10 - 120 psi in 2lb increments**
- **Overall length: 11-7/8"**

### **PROFESSIONAL DIGITAL TIRE PRESSURE GAUGES**

- Simple to operate
- Clear, large LCD display (30mmx 15mm) with built-in backlight
- Audible buzzer
- Replaceable battery (LED), lithium and LR44 alkaline
- Measuring range to 150 Psi.
- Calibration in psi, Bar, Kg/cm<sup>2</sup> and Kpa.
- Resolution: 0.5 psi (0.05 Bar or 5Kpa)
- Accuracy: +/- 1% + 0.5 psi at 100 psi and +/- 2% + 0.5 psi at 150 psi
- Operating Temperature: 50°F – 86°F (10°C – 30°C)

### H3276 **ANGLE HEAD DIGITAL TIRE PRESSURE GAUGE**

- Angled metal head with high chrome plated finish
- **Overall length: 7-1/4"**

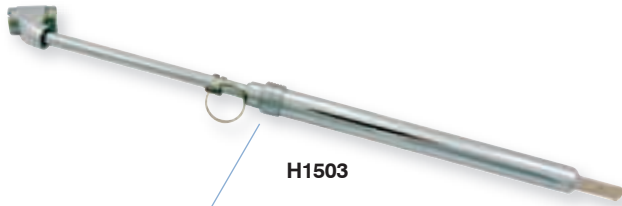
### H3278 **DUAL HEAD DIGITAL TIRE PRESSURE GAUGE**

- Head assembly swivels 360°
- Straight and 30° reverse angle chuck for monitoring inside & outside dual wheels
- **Overall length: 11-7/8"**

### **DIAL TYPE PROFESSIONAL TIRE GAUGES**

### H3264 **DIAL TYPE TIRE PRESSURE GAUGE**

- Needle holds readings until released by pressing relief button
- Zinc Alloy body, all chrome plated with acrylic lens
- **Range: 10-100 psi**, in 2lb increments with metric Kpa reading



H1503

Heavy duty truck tire gauges



H3274

Head assembly swivels 360°

Easy to read, recessed sight glass



H3276

Large LCD display

Dual head assembly swivels 360°



H3278

Large LCD display



H3264



# TIRE SERVICE

**H3266**

## DIAL TYPE TIRE PRESSURE GAUGE

- Needle holds readings until released by pressing relief button
- Zinc Alloy body, all chrome plated with acrylic lens
- **Range: 10-100 psi**, in 2lb increments with metric Kpa reading

**Distributors please note:** H3266 tire gauges are sold in an attractive 12 pack P.O.P displays only



H3266

## TIRE VALVE TOOLS

**H1142**

## 4-IN-1 VALVE TOOL

- Removes and replaces tire valve cores, rethreading inside and outside of valve stem
- E-Z out for backing out valve insides when shoulders are broken off
- Made of high grade tempered steel. Nickel plated



H1142

**H1146**

## TIRE VALVE CORE TOOL

- Removes and replaces valve cores
- **4" long screwdriver style tool with handy pocket clip**



H1146

**H1147**

## PROFESSIONAL VALVE CORE TOOL

- A compact tool with aluminum handle and steel shaft
- Handle provides a sturdy grip
- For **standard** size valve core
- **5" overall length**



H1147

**H1150**

## PROFESSIONAL BIG BORE VALVE CORE TOOL

- Screwdriver style handle
- For **big** bore size valve core
- **10" overall length**



H1150

**H1151**

## TIRE TREAD DEPTH GAUGE

- Accurately determines the amount of tread left on tire
- Brass construction with high chrome plated finish
- 3 sides calibrated in 1", in 1/32"
- 3 sides calibrated in 1", in 25mm
- Handy pocket clip



H1151

**H1152**

## TUBELESS TIRE VALVE STEM INSTALLER

- For installing rubber snap-in valve stem in tubeless tire rims on most light-duty vehicles
- Notched handle works as lever for pulling tire valve stem into hole on various sizes and types of tubeless wheel rims
- 11" Chrome steel handle with knurled end for positive grip
- 12" Overall length



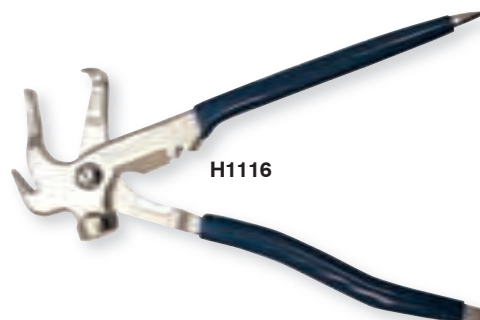
H1152

**NEW**

**H1116**

## WHEEL WEIGHT TOOL WITH SPRING LOADED HANDLES

- Remove and install all types of clip-on wheel weights
- Invisible spring loaded handle keeps the jaws in the open position for ease of operation
- Ergonomic handle design with coated grips for comfort
- Built in cutter to cut wheel weights
- Handle ends have a flat or pointed end for prying or lifting
- Made of chrome-vanadium steel
- **Length: 9-3/4"**



H1116

# TIRE SERVICE

## PROFESSIONAL AIR LINE INFLATOR GAUGES



H3282

Rubber protected  
360° swivel easy to  
read gauge



H3284

### H3282 **BAYONET / SLIDE TYPE AIR LINE INFLATOR WITH TIRE GAUGE**

- 2-in-1 tool, Inflate and measure tire pressure levels
- Lever action
- Heavy duty construction provides long service life
- Zinc chrome plated body with brass internal parts
- 360° swivel dual foot chuck
- Includes a 1/4" x 12" air hose rated at W.P. 300PSI
- **Range: 10 – 90 PSI in 2Lb increments**

### H3284 **DIAL TYPE AIR LINE INFLATOR / DEFLATOR WITH TIRE GAUGE**

- 3-in-1 tool, air line inflator & deflator with tire pressure gauge
- Heavy duty construction provides long service life
- 360° swivel easy-to-read gauge with heavy duty rubber gauge head protector
- Includes a 1/4" x 5 foot air hose rated at W.P. 300 PSI with 360° swivel straight safety clip-on air chuck
- 1/4" Female N.P.T.
- **Range: 10 – 170 PSI in 2Lb increments.  
70 – 1200 Kpa in 10Lb increments.**

## AIR CHUCKS



H1143

### H1143 **SINGLE FACE AIR CHUCK**

- Direct air line chuck with shut off valve built in chuck head
- **Thread Size: 1/4" N.P.T.**



H1144

### H1144 **STRAIGHT-ON AIR CHUCK WITH SAFETY CLIP**

- Direct air line chuck with shut off valve built into chuck head
- Safety clip holds air chuck to valve stem
- Brass
- **Thread size 1/4" NPT female**



H1145

### H1145 **SINGLE FACE AIR CHUCK WITH SAFETY CLIP**

- Direct air line chuck with shut off valve built into chuck head
- Safety clip holds air chuck to valve stem
- Brass
- **Air inlet (NPT) 1/4"**



H1301

### H1301 **DUAL FOOT AIR CHUCK**

- Direct air line chuck with shut off valve built into chuck head
- **Thread Size: 1/4" N.P.T.**
- **Overall length: 5-1/4"**



H1302

### H1302 **ANGLE & STRAIGHT DUAL FOOT AIR CHUCK**

- 30° angle & straight-on chuck with deep well lock
- Locks onto valve mouth when fitted
- Chrome plated finish
- Brass tube
- **Air inlet (NPT) 1/4"**
- **Overall length: 6-5/8"**









## BODY

### H3568

#### 8 PC ANTENNA, MIRROR & RADIO SOCKET SET

- Remove and install retainer nuts that hold the antenna to the vehicle body, remote control mirrors & radio trim nuts
- Included is a special Ball-Joint spanner wrench socket to adjust the sleeves on some 4WD vehicles
- Comes in a convenient blow mold storage case

**Kit includes:**

- H3568-11**  **Ball Joint Spanner Wrench Socket – 4 prong 1/2" Sq. DR, 1" O.D., 2-1/8" Long**
- Designed for removal & installation of ball joint adjusting sleeves
  - Permits easy torquing for correct upper ball-joint preload
  - For 1/2, 3/4, & 1 ton Dana 44 open yoke front axles
  - Chrysler, Ford™, GM, International and Jeep 4WD vehicles
- H3568-12**  **Antenna Nut Socket – 4 prong 11/16" external hex**
- 1985 – 90 Ford™ Taurus / Sable, 1990 Lincoln Mark VII.
- H3568-13**  **Power Antenna Nut Socket – 4 prong 3/4" external hex**
- 1977 to current GM vehicles
- H3568-14**  **Antenna Nut Socket – 4 prong 11/16" external hex**
- 1988 – 90 GM Cavalier / Sunbird, GM pickups C/K,
  - 1989 – 90 Lincolns, Continental, 1990 Toyota Camry / Celica, Some Chrysler, Mitsubishi.
- H3568-15**  **Antenna Nut Socket – 3 prong 11/16" external hex, 3/4" diameter**
- 1987 to current Chryslers
- H3568-16**  **Antenna Nut Socket – 2 prong 11/16" external hex**
- 1989 – 90 Ford™ Probe, Mazda RX7/926, Nissan Stanza/Maxima.
- H3568-17**  **Remote Control Mirror Socket – 2 Prong 3/8" square drive 19/32" drive end, 21/32" socket end diameter**
- For most VW and Ford™ vehicles.
- H3568-18**  **Radio trim Nut Socket – 2 prong 1/4" square DR 7/16" DR end diameter, 9/16" socket end diameter**
- Some GM and Ford™ vehicles.



H3568

### H3662

#### 11 PC PRY REMOVAL TOOL SET

- These pry tools are designed for the disassembly of door panels, dashboards, fascia, trim strips, bezels, window installation and more
- Specially constructed of impact resistant nylon, this set is the only one of its kind in the world
- It will not scratch or mar delicate surfaces like some metal versions
- Comes complete in a durable canvas storage roll pouch
- The pouch forms its own standing display or lays flat for easy access to tools while on the job
- Ideal for the automotive, marine, aviation and other industries where surface care is required

**Kit Includes :**

- |   |                                     |
|---|-------------------------------------|
| <b>H3362-10</b> Angled clip panel remover | <b>H3362-16</b> Pull type remover   |
| <b>H3362-11</b> Flat clip panel remover   | <b>H3362-17</b> Handy remover       |
| <b>H3362-12</b> Panel remover             | <b>H3362-18</b> Narrow type remover |
| <b>H3362-13</b> Sharp panel remover       | <b>H3362-19</b> Wide type remover   |
| <b>H3362-14</b> Straight panel remover    | <b>H3362-20</b> Upholstery remover  |
| <b>H3362-15</b> Clip panel remover        |                                     |



H3662






**NEW**

### H3664

#### 5 PC TRIM PANEL REMOVAL TOOL SET

- This kit has a variety of popular body trim panel removal tools
- These tools are designed to prevent the trim panel fastener from pulling through the panel
- Ergonomic handle with "SVCM" satin chrome plated steel shafts
- Comes with a reusable storage tray

**Kit includes :**

- H3666**  - Large "V" Notch Tip - Length 9" (228.6mm)
- H3668**  - Small "V" Notch Tip - Length 8-1/4" (209.5mm)
- H3670**  - 1/4" "U" Notch Tip - Length 8-3/4" (222.2mm)
- H3672**  - 5/16" "U" Notch Tip - Length 8-3/4" (222.2mm)
- H3674**  - Square Notch Tip - Length 9-7/8" ( 250.8mm)

**NEW**



H3664

## BODY



H3343

### H3343 **WINDOW MOLDING REMOVER**

- Removes window molding clips
- Lay tool flat on glass and locate clips – rotate tool to release clip



H3450

### H3450 **WINDSHIELD LOCKING STRIP TOOL**

- Double-ended 90° swivel steel tip – impact resistant body
- Long nose allows access to hard to reach places
- Handle is made from impact resistant material with stainless steel spring



H3436

### H3436 **2 PC RADIO REMOVER TOOL**

- Allows easy removal or installation of radio from the dash panel without damage
- Quickly releases the security retaining clips located in the front panel of the radio
- Works on most Fords™, some Saab, VW, Audi and other import vehicles that use DIN mountings



H3145

### H3145 **FORD™ HEADLIGHT ADJUSTING TOOL**

- Fits headlight adjustment screws on newer Ford™, Lincoln and Mercury vehicles with halogen insert bulb headlights. Special 4mm Hex Socket.

JET Equipment and Tools is a proud sponsor of the Canada West Doorslammer Association. Pictured is 2008 Champion Grant Howell on a solid pass at Mission Raceway Park.





# TUNE UP

## H1599

### XENON TIMING LIGHT

- Rugged, shockproof black housing, two finger trigger, solid state circuitry and 6" long oil and gas resistant leads
- Extremely rugged capacitive pick-up clamp
- Most competitive lights use a very fragile inductive pick-up which can easily break when the clamp is dropped or banged. The capacitive clamp, with solid brass pick-up surfaces instead of fragile magnets, is almost indestructible
- Capacitive pick-up clamp allows hook-up to spark plug wire in either direction while engine is running
- Comes with English and French instructions on engine timing
- **Maximum RPM: 8,000**

#### Replacement Parts:

**H1599B** Bulb

**H1599C** Capacitive Pick-up Clamp



H1599

## H3630

### AUTOMOTIVE MULTIMETER

- Full-range – performs complete tune-up and troubleshooting tests on all vehicles
- Includes tests such as tach and dwell, test fuel injectors, sensors, alternators, spark plug wires, ignition and charging systems, battery condition and cranking voltage
- Easy-to-read digital LCD
- Data hold function
- Computer safe

Functions:	Measuring Range:
<b>DC Volts</b>	200m-2-20-200-1000V
<b>AC Volts</b>	200-750V
<b>DC Amps</b>	20m-200m-10A
<b>OHMS</b>	200-2k-20k-200k
<b>Freq.</b>	20kHz
<b>DWELL</b>	3-4-5-6-8CYL
<b>TACH</b>	3-4-5-6-8CYL (X10rpm)
<b>TEMP</b>	-40° C/-40°F / 1400°C/2552°F
<b>DIODE CHECK</b>	3V/1mA
<b>CONTINUITY</b>	Audible Beep
<b>Transistor hFE</b>	Vce≈3v, 1b≈10μA

Features:	Accessories:	
10M Input Impedance	Colour-coded Test leads	Yes
Auto reverse polarity	Inductive spark pickup clamp	Yes
Auto zero adjust	Temperature Probe	Yes
Over range Indication	Detailed manual	Yes
Overload protection	Holster	Yes
Low battery indicator		
Fuse Protection		
9-Volt power		
Auto power off		
9V Battery		

H3630



PH3630-10  
Lead Set

PH3630-12  
Inductive Clamp

# GAUGES & TACHOMETERS

## CHROME SERIES GAUGE KITS

All Gauges are for 12 Volt Negative Ground Systems.

- Accurate, reliable gauges, 2-1/16" dual S.A.E. & metric dials
- Chrome bezels and panels with optional black vinyl decoration supplied
- White print and red pointers on black background. OEM backlit illuminated

**Kit includes:**

- Adaptors and senders to fit most popular applications. Full installation instructions

### OHMS RATING FOR OIL PRESSURE GAUGES:

0 PSI = 225 - 259 OHMS, 50 PSI = 93 - 113 OHMS, 100 PSI = 30 - 38 OHMS

### OHMS RATING FOR ELECTRICAL TEMPERATURE GAUGES:

Room Temp = 1,730 OHMS, 130°F = 528 OHMS, 190°F = 165 OHMS, 290°F = 36 OHMS



	Range	Sweep	Includes
<b>HTA1106</b> Ammeter	60-0-60+	90°	
<b>HTA1109</b> Voltmeter	8-16 Volts	90°	
<b>HTA1118</b> Mechanical Water Temperature-66" Capillary Tube	130°-280°	90°	1/2" and 3/8" N.P.T. Adaptors
<b>HTA1125</b> Wide Sweep Mechanical Water Temperature-66" Capillary Tube	130°-280°	270°	1/2" and 3/8" N.P.T. Adaptors
<b>HTA1136</b> Electrical Water or Oil Temperature	130°-290°	90°	Sender Unit
<b>HTA1144</b> Mechanical Oil Pressure	0-80 psi	90°	72" Nylon Tube with Adaptors
<b>HTA1150</b> Wide Sweep Mechanical Oil Pressure	0-100 psi	270°	72" Nylon Tube with Adaptors
<b>HTA1153</b> Electrical Oil Pressure	0-100 psi	90°	Sender Unit
<b>HTA1154</b> Manifold Vacuum	0-25 lbs.	270°	72" Plastic Tube with Adaptors
<b>HTA1156</b> Mechanical Water Temperature-96" Capillary Tube	130°-280°	90°	1/2" and 3/8" N.P.T. Adaptors

See below for Dual and Triple Gauge combination kits



HTA1106



HTA1109



HTA1118



HTA1125



HTA1136



HTA1144



HTA1150



HTA1153



HTA1154



HTA1156



HTA1216 (HTA1118, HTA1144)



HTA1308 (HTA1106, HTA1118, HTA1144)

# GAUGES & TACHOMETERS

## HEAVY DUTY AND MARINE GAUGE KITS CHROME SERIES

- Designed for heavier duty and marine applications.
- Cross coil torque meter and oil dampened needle movements ensure steady readings.
- They are built with non-corrosive, durable plastic cases, with a water resistant seal and stainless steel bezels.

**Kits include:**

- Electrical Gauges
- 12 Volt Negative Ground Systems
- 2-1/16" Diameter
- OEM Backlit Illuminated
- Mounting Hardware & Installation Instructions (no connection wires)
- Clamshell Packaging
- Sender Thread 1/8 - 20 NPT



HTA1401



HTA1000



HTA1402

		Range	Sweep	Includes
<b>HTA1000</b>	Hour Meter – Repeats After Full Cycle	0-99999.9		
<b>HTA1401</b>	Electrical Oil Pressure	0-100 psi	180°	Sender Unit
<b>HTA1402</b>	Electrical Water Temperature	100°-280°	180°	Sender Unit
<b>HTA1403</b>	Voltmeter	8-16 Volts	180°	
<b>HTA1404</b>	Fuel Level Gauge		180°	
	Use with sending unit <b>HTA1140</b>			



HTA1404



HTA1403

For matching  
Tachometer see page 74

## EASY-READ GAUGE KITS Classic White Face – Black Numbers & Pointers

- 2-1/16" Dials
- OEM Backlit Illuminated
- S.A.E. and Metric Readings
- Wide Sweep for Accurate Readings
- Black Deluxe Panels and Bezels
- For all 12 Volt Negative Ground Systems
- Clamshell Display Pack

**Kits include:**

- Adaptors
- Installation Hardware
- Instructions and Lighting

		Range	Sweep	Includes
<b>HTA1831</b>	Mechanical Oil Pressure	0-100 psi	270°	Sender Unit
<b>HTA1832</b>	Ammeter	-60-0-60+	90°	
<b>HTA1833</b>	Voltmeter	8-16 Volts	90°	
<b>HTA1834</b>	Mechanical Water Temperature	130°-280°	270°	Sender Unit



HTA1833  
Voltmeter



HTA1831  
Mechanical  
Oil Pressure

See below for Triple Gauge combination kits.



HTA1834  
Mechanical Water Temperature



HTA1835  
Includes HTA1831, HTA1833, HTA1834



HTA1832  
Ammeter

# GAUGES & TACHOMETERS



HTA1820



HTA1819



HTA1830

OHMS Rating  
Empty – 240 OHMS  
Full – 33 OHMS



HTA1117

## TACHOMETERS

- 0-8000 RPM
- 270° Sweep
- Illuminated
- Red Adjustable Set Pointer
- All Metal Case
- Wide Chrome Plated Bezel
- Heavy Duty Cross-Coil Meter
- 360° Universal Mounting
- Works on 12 Volt Conventional or Electronic Ignition Systems
- For 4, 6 or 8 Cylinder Applications
- Hardware and Instructions

**HTA1819** **2" Dial** White Print & Red Pointer on Black Background

**HTA1820** **3-1/2" Dial** White Print & Red Pointer on Black Background

**HTA1830** **3-1/2" Dial** Easy Read, Black Print & Pointer on White Background

## HTA1117

### ELECTRICAL FUEL LEVEL GAUGE KIT

- Adjustable. Fits tanks 5" to 27" in depth, right or left hand swing.
- Gauge design appearance and size are the same as our standard chrome series gauges.
- For 12 Volt negative ground system.

#### Kit includes:

- Gauge
- Panel
- Sender

**HTA1140** **Replacement Sending Unit** (Requires connection wire)

**HTA1141** **Replacement Gauge**

## HTA Series Replacement Parts and Gauge Accessories:

**HTA1108A** 12 Volt Bulb for all 2 1/16" Gauges

**HTA1118A** 1/2" Adapter-Mech. Water Temp

**HTA1118B** 3/8" Adapter-Mech. Water Temp.

**HTA1136A** Metric Fittings - Mech. Temp. Gauges

**HTA1136B** Sending Unit Kit Elect. Temp.

**HTA1136C** 1/8" x 1/4" Adapter - Elect. Temp.

**HTA1144A** Oil Press. Kit, 72" Tubing & Adaptors

**HTA1144B** Oil Press. Kit, 144" Tubing & Adaptors

**HTA1144C** 5/16"F x 1/8"M Oil Pressure Adaptor

**HTA1146A** Metric Fitting Kit

**HTA1152A** Elect. Oil Press. Sender for HTA1153

**HTA1312A** 2-16" Chrome Single Gauge Panel Bezel

**HTA1312B** 2-16" Chrome Dual Gauge Panel Bezel

**HTA1312C** 2-16" Chrome Triple Gauge Panel Bezel



## WARRANTY POLICY

All JET / Hastings branded Specialty Tool products are manufactured to the highest standards and are guaranteed against defects in workmanship and materials when the tool is used for the purpose for which it was designed. JET / Hastings Specialty Tool products that fail during normal use and fail within the specified warranty period stated below, will be repaired or replaced, at JET's discretion, at no charge to the customer. This warranty is void if there is evidence of misuse, abuse, alteration, or normal wear and tear. No claims for damages of any type will be considered and all product is sold with this specific understanding.

Defective moving, wearable or consumable parts of products such as light bulbs, rubber parts and hoses, blades and cutters, stones and pads, valve cores, lead wires, threaded adjustment bolts, nuts and screws, screwdriver bits, body sets, brushes, etc., will be replaced at no charge by JET. Normal wear and tear of these parts can be repaired by purchasing the appropriate replacement part or kit.

Below are the warranty code explanations and service procedures. Please refer to the catalogue for the warranty code assigned to each item.

### WARRANTY CODES

#### **L** = LIFETIME WARRANTY

The JET / Hastings distributor may replace over the counter, product identified to be defective.

#### **LE\*** = LIMITED LIFETIME WARRANTY\*

These items contain moving, wearable or consumable parts, that are not covered by warranty. (see details below)

#### LIMITED LIFETIME WARRANTY

Same procedure as "L" with the following exceptions:

\* **Multiple Piece Kit or Set** - Warranty only applies to the defective piece not the complete kit or set. Moving, wearable or consumable parts not covered by warranty – Batteries -Light Bulbs – Rubber parts & Hoses – Blades & Cutters – Stones & Pads – Valve Cores – Leads – Threaded Adjustment Bolts, Nuts and Screws – Screwdriver Bits – Body Sets – etc. These parts can be ordered from our parts lists. Contact the nearest JET Customer Service Department for replacement part number and price.

#### **Y** = ONE YEAR WARRANTY

#### REPAIRABLE PRODUCT

These items are warranted for one year from date of user purchase and must be returned FREIGHT PREPAID to the nearest JET authorized warranty service center or nearest JET distributor for warranty repair or replacement along with proof of purchase and an explanation of the defect.

#### Torque Wrenches

90 days on calibration, subject to inspection. This warranty is void if there is evidence of misuse, abuse, alteration or normal wear and tear. The ratcheting head is considered a wear item and may be repaired by purchasing a replacement head kit.

#### NO WARRANTY CODE LISTED INDICATES THAT ITEM IS WARRANTY FREE

These items are generally consumable products that are subject to wear or breakage due to their nature. Therefore no warranty is applicable.

#### WARRANTY PROCEDURE

Any JET/Hastings specialty tool product for which there is a warranty claim should be returned PREPAID to an authorized JET distributor or service centre along with proof of purchase and an explanation of the defect.

#### BATTERY WARNING

Batteries that are included in a tool are for demonstration purposes. New batteries should be installed as soon as possible to prevent the tool from malfunctioning.

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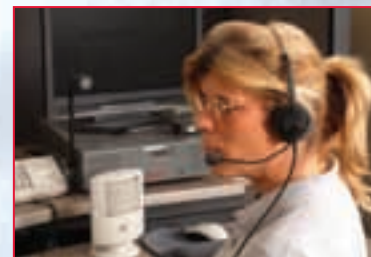
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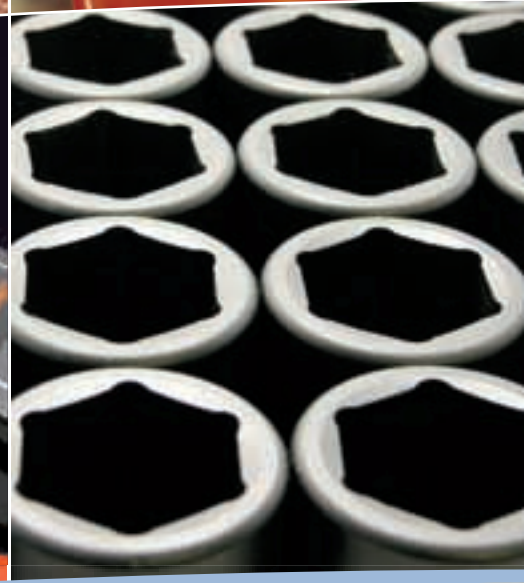
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