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# DIAGNOSTIC AND CONTROL TOOLS



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## INFO

## The Mityvac pump : so famous and yet so underestimated

The Mityvac pump has been a must-have tool in every workshop for almost 40 years. Recently refreshed with a new look and new features (larger 480ml reservoir with quick connector, 360° rotating gauge) it became the only hand pump that can produce and measure vacuum OR pressure with equal performance and precision (-980 mBar to more than 4 Bar). And even though, the Mityvac pump is often underestimated and used only for some of its applications. From now on, we want you to know that the Mityvac pump not only bleeds or measures pressure and vacuum but allows you to

- check diaphragm of a vacuum valve
- test turbos with vacuum or with pressure
- test EGR valves
- check fuel pressure regulator
- check servo brake diaphragm
- and many more...

And thanks to all its accessories, the range of applications even widens (filter priming...).

The Mityvac pump also exists in different models : plastic or metal, only vacuum or pressure/vacuum, different volume per stroke. Have a look at our range on the "Engine" section of this chapter.



## AUTOMATIC BRAKE BLEEDER 12V

HU11001



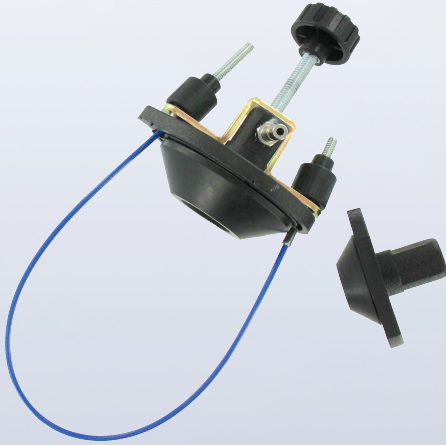
### Easy, simple and reliable.

- Portable and self-powered
- Compatible with ABS systems
- 12v powering with reverse polarity warning
- Stainless steel body
- Electrical pump (0 to 3 Bar) with automatic power off valve
- Regulator from 0,1 to 3Bar
- 5l reservoir with visible level and min level indication
- Auto power OFF when min level
- Large reservoir opening for easy cleaning
- 12V power cable with jack (L: 4m)
- Power cable for brake fluid with quick coupling system (L: 4m)
- Delivered with fluid refill reservoir with chain and screw-on adaptor



HU2010

## UNIVERSAL CAP FOR HU11001



AB70854

## VACUUM BRAKE BLEEDING KIT - 800ML



- Uses compressed air to generate deep vacuum to bleed old fluid and air from hydraulic brake system
- Auto refill unit maintains correct fluid level during bleeding process
- Reduces repair times increasing productivity and profit
- New design with unique patented built in safety valves to prevent accidental fluid spray and spillage





# BRAKES

## VACUUM BRAKE BLEEDER - 800ML

AB70852



- New design with unique patented built in safety valves to prevent accidental fluid spray and spillage
- Uses compressed air to generate deep vacuum to bleed old fluid and air from hydraulic brake system
- Reduces repair times increasing productivity and profit
- Compact size allows easy operation within wheel arch area
- Quick connect coupler for hose interchange as required
- Universal rubber fitting suits most brake bleed screws
- Float valve shuts vacuum down when container reaches full to prevent dangerous brake fluid spray if capacity is accidentally exceeded
- Internal shut off valve closes when not in use to prevent fluid spills when stored
- Convenient hanging hook and quick release trigger allows hands free operation
- Clear drain hose provides visible inspection of old fluid during bleeding



HU507A

## UNIVERSAL BRAKE BLEEDING KIT



**Contents:**

- Vacuum brake bleeder 1l (HU507G) with unique rubber adaptor
- 2 fluid filling bottles:
  - HU508DA : fix nozzle
  - HU508D : adjustable nozzle



HU507M

## BRAKE BLEEDER FOR MOTORCYCLES



**Contents:**

- HU507G : vacuum brake bleeder 1l
- Double ended fitting with unique rubber adaptor
- Designed for the brake bleeding of motorcycles



## MITYVAC FLUID DISPENSING SYSTEM + BRAKE BLEEDER

MI6844



- Large 5 liters fluid capacity
- Fluid is dispensed under pressure for smooth continual flow
- Integrated manual pump adds air above the fluid level to prevent aeration
- Internal pump components are sealed against exposure to fluids
- On/Off and flow control valve are conveniently located near fluid output
- Utilizes push-to-connect, quick-change style accessory connections
- Pressure gauge indicates fluid dispensing pressure
- Integrated safety and manual pressure relief valve
- Pressurized reservoir allows the operator hands-free movement to the bleed screws
- Kit includes:
  - Mityvac pressure bleed system (MI6400)
  - universal master cylinder adapter (MI00804)





MI8020

## MITYVAC NEW GENERATION HAND BRAKE BLEEDING KIT



- Bleeds hydraulic lines of most automotive brake systems
- Quick and clean



HU11002

## BRAKE FLUID TESTER



- DOT 3, 4, 5.1
- Accurate and quick analysis of the moisture content in the brake fluid
- Simple to calibrate for more accuracy, very easy to use
- LED read-out
- Adjustable test probe for easy access

MI8550

## MITYVAC METAL HAND PUMP KIT

### Kit includes:

- MI8510 metal hand pump; the only hand pump that can produce and measure vacuum OR pressure with equal performance and precision (-980 mBar to 4 Bar)
- Large reservoir design (480 ml) with quick connector
- Other accessories

Mityvac has significantly improved the original Mityvac hand vacuum/pressure pumps used by automotive technicians, service and maintenance professionals, engineers and scientists worldwide. The new Mityvac Silverline Elite hand pump combines 35 years of automotive diagnostic experience with advanced performance and comfort to meet the requirements of the latest automotive technologies. Featured in the new MI8550 Silverline Elite Automotive Test Kit, the pump produces vacuum along with pressure at twice its previous output to expand its vehicle service applications.

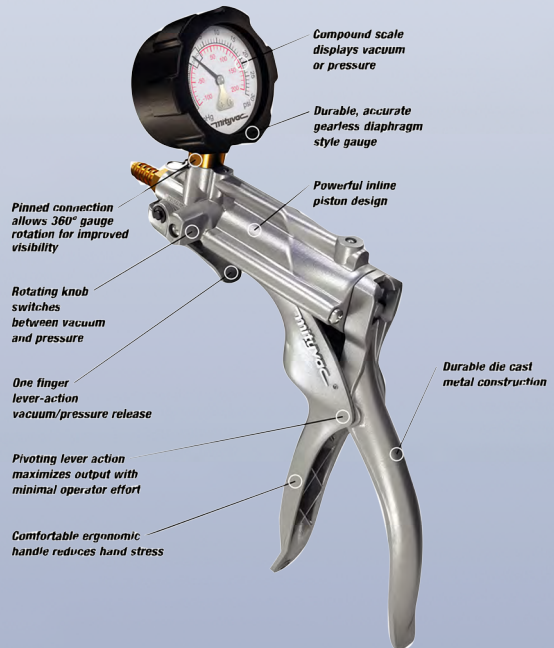
### Common Applications

- Emission control systems (EGR, RCV, BPV) testing
- Turbocharger wastegate testing
- Vacuum and pressure brake and hydraulic clutch bleeding
- Ignition system diagnostics
- Fluid transfer/evacuation
- Automatic transmission service





MI8550







## MITYVAC VACUUM/PRESSURE METAL HAND PUMP

MI8510



**The only hand pump that can produce and measure vacuum OR pressure with equal performance and precision.**

- Made from an aluminium and zinc compound
- Ergonomically designed handle
- Single-hand vacuum/pressure release action allows multiple tests without disconnecting
- Protective rubber boot surrounds high quality gauge
- Gauge is angled and swivels 360° for improved visibility
- Better performance : -980 mBar to 4 Bar



MI6020

## MITYVAC TURBO PRESSURE TESTER MANOMETER



- From -1Bar to +3Bar
- To be used in conjunction with Mityvac pump MI8550 (quick connection)
- Allows to control the maximum pressure of the turbo during a road test
- Features a red needle that indicates the maximum pressure reached during the measuring



## VACUUM PLASTIC HAND PUMP

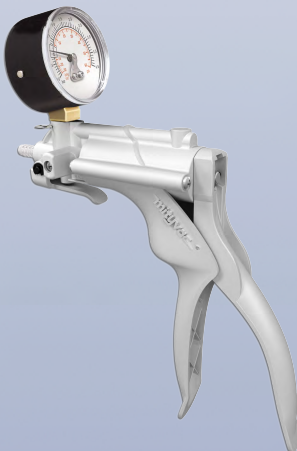
MI8010



- Made from a PVC compound
- Ergonomically designed handle
- Performs vacuum for automotive testing
- Gauge is angled and swivels 360° for improved visibility
- From 0 mBar to -1000 mBar

## VACUUM/PRESSURE PLASTIC HAND PUMP

MI8255



- Made from a PVC compound
- Ergonomically designed handle
- Performs vacuum and pressure for automotive testing
- Gauge is angled and swivels 360° for improved visibility
- From -980 mBar to 4 Bar

MI8000

## MITYVAC VACUUM PLASTIC HAND PUMP KIT



**Kit includes:**

- MI8010 vacuum plastic hand pump (0 to -1000 mBar)
- various accessories for automotive testing or bleeding

MI8020

## MITYVAC HAND BRAKE BLEEDING KIT



- Bleeds hydraulic lines of most automotive brake systems
- Quick and clean



## VACUUM SUPER PUMP WITHOUT GAUGE

MI8121



- Plastic Mityvac pump with increased volume per stroke capacity of 32cc (2 cu. In.)

## VACUUM SUPER PUMP WITH GAUGE

MI8110



- Plastic Mityvac pump with increased volume per stroke capacity of 32cc (2 cu. In.)
- Features a MI6179 gauge (from -1Bar to 0Bar)

MI6177

## VACUUM/PRESSURE MANOMETER



- From -1Bar to +4Bar
- Diameter : 65mm

MI6179

## VACUUM MANOMETER



- From -1Bar to 0Bar
- Vacuum only
- Diameter : 60mm

## MITYVAC FLUID RESERVOIR KIT FOR METAL PUMP



MI6911

- To collect or dispense fluid
- New reservoir with quick connection system for metal pump (MI8510)
- Capacity : 500ml

## MITYVAC FLUID RESERVOIR KIT FOR PLASTIC PUMP



MI6909

- to collect or dispense fluid
- reservoir for plastic pump
- capacity : 120ml

MI6912

## MITYVAC AUTOMOTIVE TEST ADAPTORS KIT



MI6913

## MITYVAC UNIVERSAL BRAKE BLEEDING ADAPTORS



MI6008

## FILTER PRIMING ADAPTORS KIT



## UNIVERSAL POWER STEERING VACUUM BLEEDING ADAPTER

MI660



- Designed to assist in purging air out of the Power Steering system
- Allows hook up to your vacuum bleeder or fluid evacuator by using the adapter in place of the OE cap during the purge process
- Quietens power steering pumps by removing air out of the system
- To be used with a Mityvac pump



MI9208

**TUBING (2 pieces) FOR MI8550**



MI6004

**VACUUM CAPS FOR MI8550**



MI824461

**TUBE CONNECTORS FOR MI8550**





# ENGINE

## MITYVAC PUMPS CHART

## MITYVAC PUMPS CHART

Item Number	MI8510	/	MI8010	MI8255	MI8121	MI8110
<b>Kit</b>	MI8550	MI8020	MI8000	/	/	/
<b>Description</b>	Vacuum/ Pressure Metal Pump w/ gauge	Vacuum Plastic Pump	Vacuum Plastic Pump w/ gauge	Vacuum/ Pressure Plastic Pump w/ gauge	Vacuum Plastic Superpump	Vacuum Plastic Superpump w/ gauge
<b>Material</b>	Aluminium / Zinc	PVC	PVC	PVC	PVC	PVC
<b>Vol. per stroke</b>	1 cu. In. / 16cc	1 cu. In. / 16cc	1 cu. In. / 16cc	1 cu. In. / 16cc	2 cu. In. / 32cc	2 cu. In. / 32cc
<b>Dual converter</b>	Yes	No	No	Yes	No	No
<b>Weight</b>	1.3kg	194g	313g	326g	332g	300g
<b>Max. Vacuum</b>	25 in HG, 850Mbar	25 in HG, 850Mbar	25 in HG, 850Mbar	25 in HG, 850Mbar	25 in HG, 850Mbar	25 in HG, 850Mbar
<b>Max. Pressure</b>	4 Bar	/	/	4 Bar	/	/
<b>Maintenance Kit</b>	MI8900	MI8901	MI8901	MI8903	MI8902	MI8902
<b>Gauge</b>	MI6177	/	MI6179	MI6177	/	MI6179





HU12012

## TURBO SYSTEM TESTER

- Delivered with 8 conical caps from 35mm to 90mm
- Caps with rugged surface for a better grip in the tubes
- Includes a gauge with integrated regulator for a better leaks reading
- Allows the technician to pressurize the whole turbo and inlet system in order to detect quickly and accurately potential leaks



## TURBO SYSTEM TESTER FOR TRUCKS

HU12016



- Delivered with 6 conical caps from 105mm to 130mm
- Caps with rugged surface for a better grip in the tubes
- Includes a gauge with integrated regulator for a better leaks reading
- Allows the technician to pressurize the whole turbo and inlet system in order to detect quickly and accurately potential leaks
- Specially designed for vans and trucks inlet systems



HU12001

**DIESEL COMPRESSION TESTER**

- For both direct and indirect diesel injected cars
- Test through injector or glow plug

**Kit includes:**

- 6 sets (26pcs) of small profile, quick coupling tips and adaptor for speed and security
- Flexible hose (355mm) gives access to restricted plug and injector ports
- Gauge: 0-70Bar



## DIESEL ENGINE COMPRESSION TEST ADAPTOR SET (CLAMP-ON INJECTORS)



HU12002

**Use with HU12001.**

6 clamp-on injector adaptors covering:

- car sizes
- van sizes
- truck and bus sizes
- agricultural and marine injector sizes



## GAS COMPRESSION TEST KIT



HU080

**The kit includes:**

- Gauge from 0 to 21Bar
- 10-12-14-18mm adaptors and rubber cone adaptors

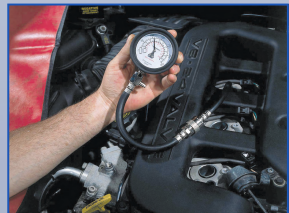


MI5530

## MITYVAC GAS COMPRESSION TEST KIT

**This kit includes :**

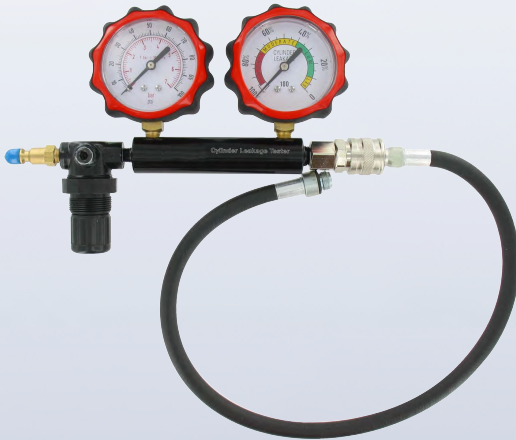
- gauge 0-20Bar / Psi, Bar and Kg/cm<sup>2</sup>
- full assortment of adaptors for most automotive or small engine applications: M10, M12, M14, M18
- air hold adaptor enables valve seal repairs without removing cylinder heads





## CYLINDER LEAK TESTER

HU12007



- Allows to locate and measure compression leaks in the cylinder. Pinpoints bad valves, cracked cylinders and blowing leak gaskets
- Can be fitted to tips of the Diesel compression testers (HU12001 / HU12002) thanks to accessory HU12008



## DIESEL ADAPTOR FOR HU12007

HU12008



Allows fitment of HU12007 to the tips of the Diesel compression testers (HU12001 / HU12002).

HU055

## MASTER FUEL INJECTION PRESSURE TEST KIT

**Includes:**

- The most popular adaptors for all types of fuel injection
- A large gauge with dual readings Kpa, Psi from 0 to 1000Kpa (10Bar)
- A low pressure gauge for accurate reading from 0 to 100Kpa (1Bar)
- Quick coupling system

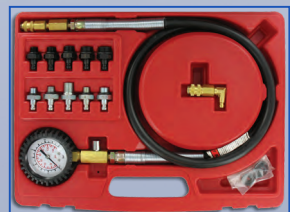


LT0588105

## OIL PRESSURE TESTER



- Easy to use
- Use to test oil pump pressure, pressure switch and warning indicators
- Quick coupling system





# COOLING SYSTEM

## UNIVERSAL COOLING SYSTEM PRESSURE TESTER

AB70802

**BLADDER  
INFLATES  
TO CREATE  
SEAL**



**Attaches to all Cooling Systems without adaptors**

- Suits both bayonet and thread type filler necks
- Pressure release valve with drain hose prevents coolant spills
- Use on passenger vehicles, light and heavy duty vehicles, motor cycles and marine applications
- Pressure Pump: 0-30 psi (0-207 KPa)
- Suits neck diameter up to 50mm (2 inch)



**CONNECTS DIRECTLY TO  
HEADER TANKS**



**RADIATOR WITH  
BAYONET CAP**



AB70803

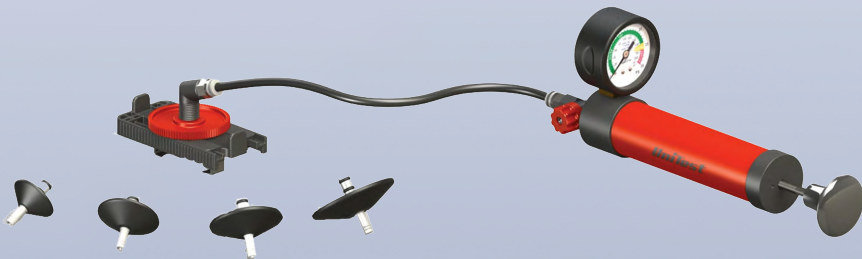
## UNIVERSAL COOLING SYSTEM PRESSURE TESTER

**CONNECTS DIRECTLY  
TO RADIATORS**



Universal adaptor with 4 quick interchange cones suit opening sizes from 12mm (approx 1/2") to 55mm (approx 2")

- Adaptor is adjusted to suit opening size then automatically locks when clamp pressure is applied
- Bleed screw with drain hose prevents fluid spill on pressure release
- Pump with 30 psi pressure gauge (0-207 KPa)
- Supplied in custom blow mould storage case



**CONNECTS DIRECTLY TO  
HEADER TANKS**





## DELUXE COOLING SYSTEM PRESSURE AND CAPS TESTER

AB70889



### Check the system

With the inflatable bladder sealing system that attaches to all passenger and light commercial vehicles (universal use, no need of any adaptors)

### Check the caps

With 6 unique double ended adaptors that suit the most common caps

- Locate leaks from:
  - head gaskets
  - radiator and heater cores
  - welch plugs and housings
  - water pumps and hoses



MI4534

## UNIVERSAL COOLING SYSTEM TEST KIT



- Pressure testing for leaks in automotive cooling systems
- High-volume hand-operated pump builds pressure quickly to locate leaks
- Universal cooling system adapter replaces more than 20 individual adapters for cars, vans, light- and heavy-duty trucks
- Patent-pending adapter cam mechanism ensures an air-tight seal with radiator and coolant bottle necks
- Compact one-piece adapter design fits conveniently in tool box
- Large, easy-to-read 65mm diameter gauge includes clearly indicated pressure test zones
- Convenient push-button valve safely relieves pressure when testing is complete
- Packaged in durable custom-molded case

**Kit includes:**

- Hand pressure pump w/ 65mm diameter gauge and push-button pressure release valve
- Universal radiator test adapter





# COOLING SYSTEM

## COOLING SYSTEM REFILLING GUN

AB70880

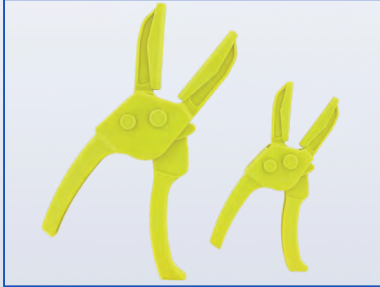


- Eliminates airlocks during refilling using deep vacuum technology
- Unique multi-fit cone eliminates the need for additional adaptors (universal use)
- Easy and fast to use



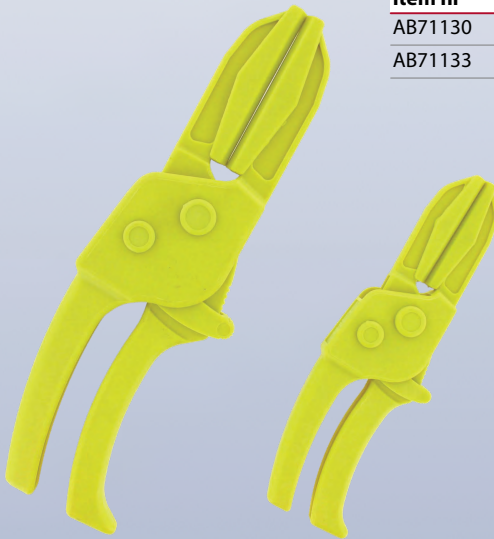
AB71130 - AB71133

## FLEXIBLE LINE CLAMP PLIERS 'HEAVY DUTY DESIGN'



- Seal off all flexible lines
- Applications : Automotive (Vacuum lines, Fuel lines, Brake lines, Heater hoses, Radiator hoses, Transmission cooler lines), Industrial (Flexible hydraulic lines, Coolant lines, Fuel lines)
- Ergonomic handle shape for comfort and maximum leverage
- Pivoting jaws to apply parallel crush for optimum sealing
- Spring loaded handles
- Automatic lock release
- Constructed from light weight super strong fibre reinforced polymer

Item nr	Spec	Description
AB71130	3mm-19mm	small
AB71133	19mm-57mm	large



# COOLING SYSTEM

## FLEXIBLE LINE CLAMP SET (13-57mm)

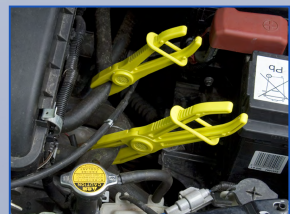
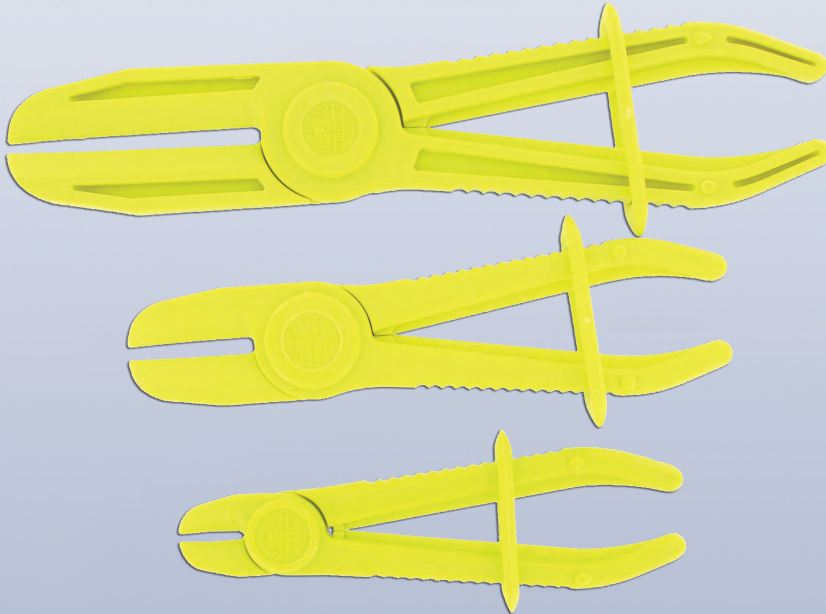
AB70713



- Ideal for flexible brake, fuel and coolant lines (seals heater and radiator hoses)
- Light weight, non conductive highly visible material
- Quick and easy to use

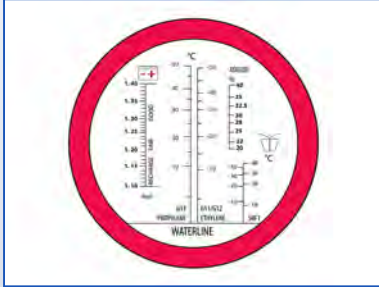
**Set includes:**

- AB70035: 1 small clamp for diameters < 13mm
  - AB70533: 1 medium clamp for diameters 13-19mm
  - AB70684: 1 large clamp for diameter 19-57mm
- Clamps can be sold separately.



HU13002B

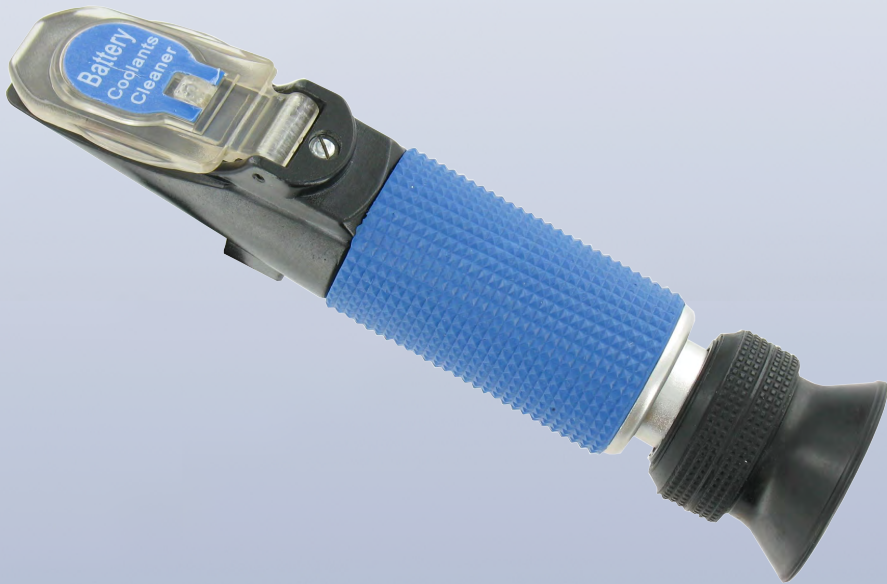
## ILLUMINATED REFRACTOMETER



Backlight system for easy reading, even in dark places.

**To check:**

1. coolant : from 0 to -50°C
2. battery : from 1.1 to 1.4Kg/L
3. windscreen cleaner : from 0 to -40°C
4. AdBlue® separated scale from 30 to 35%

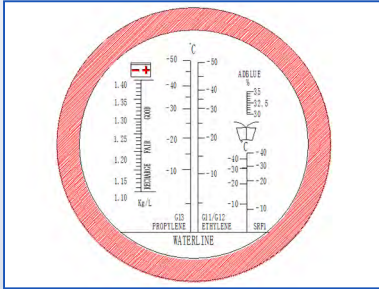




# COOLING SYSTEM

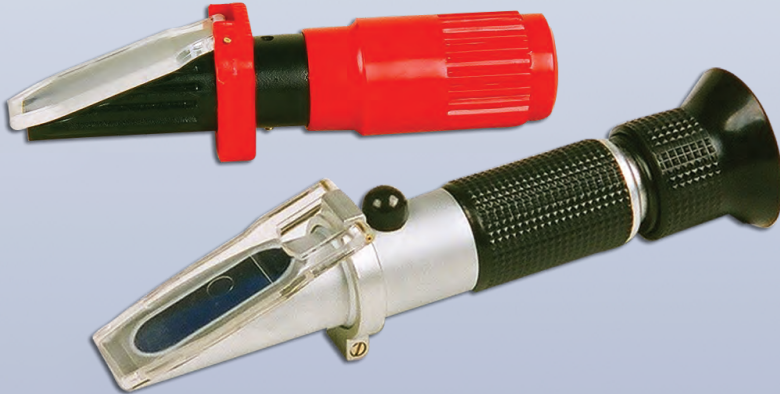
## AUTOMOTIVE REFRACTOMETERS

HU404-HU414



### To check:

- Coolant : from 0 to -50°C
- Battery : from 1.1 to 1.4Kg/L
- Windscreen cleaner : from 0 to -40°C
- Plastic model (HU404) and metal model (HU414)
- AD Blue separated scale from 30 to 35%

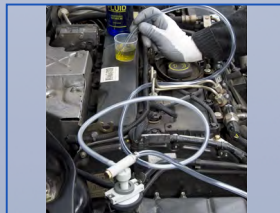




AB70586

## COMBUSTION LEAK TEST KIT

- Checks cooling system to see if combustion gas is present
- AB70587 : replacement test fluid
- Can be used with AB70800 cooling system tester



# INSPECTION TOOLS



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## INFO

## The Switch Probe : a little piece of innovation

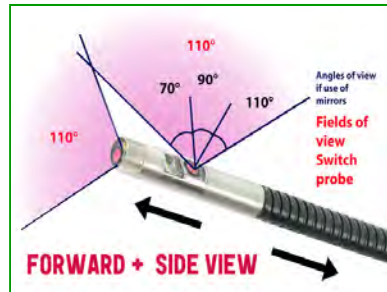
Hubitools has been one of the leaders in the automotive endoscopy market, having developed a wide and complete range of videoscopes where you can find the specific diameter probe, length or best value for money you are looking for.

It was obvious then that Hubitools would be the first one to offer a jewel of innovation that allows you to have a forward and a side view on a unique probe and this with the best quality of image ever and a specially thin diameter of 4.9mm.

Thanks to a simple switch you pass from one camera to the other which avoids you the need to get additional mirrors that usually gives you a poor quality of image.

With the 4.9mm Switch Probe, you can go anywhere and see everything.

It truly is the magic wand of videoscopes!



# ENDOSCOPES

HUX1000

## HIGH TECH VIDEOSCOPE SYSTEM

### THE HIGH-END INSPECTION SOLUTION

- In Automotive, ideal for test centers, engine labs or dealerships
- Multi-ways to capture pictures : from the system, from the probe or with the remote control
- The kit is delivered in a high quality Air-tight water proof case and includes the main system, the high definition articulated probe 6mm but also a neck strap, a sun visor, a remote control, a 2m holding tube and 3 accessories (70° mirror, dual view mirror and pim porbe)

### FEATURES:

- Clarity: makes the edge of subject sharper
- Negative+: checks the leak or crash that can't be inspected carefully with normal light
- Boost+: if the normal boost is still not satisfying, use Boost+ directly
- Particle free: mirror reflects particles on the image, this feature erases these particles for a clearer inspection
- Anti-reflection: Reduces reflection on shiny metal or mirror surface
- Dual View: allows to see front view and side view at the same time, it works with dual view mirror adaptor (included in the kit)
- Measuring grid: works with contact pin (included in the kit)
- Compare: you can compare the live image with the picture taken by HUX1000\_ the stored image frame can be adjusted during inspection on the screen
- Input: allows to makes notes directly on the stored pictures





HUX1000



**+ ACCESSORIES :**





# ENDOSCOPES

## HU23090 / HU23095

- Large 3,5" glas screen (not plastic : shockproof)
- IP55 command box : dust and water protection
- Compact design with a maximum of functions:
  - zoom : Digital zoom 3x 5x
  - mirroring : Complete Mirroring and Rotating
  - Photos AND Videos recording
  - Light adjustment
  - 27 languages available
  - works with AA batteries
  - Date/Time stamp on display and pictures/videos
- Probes : IP67, all fluid resistant (water, coolant, oil, break fluid, fuel, transmission...), unique design with shockproof and anti-reflection lens

## VIDEOSCOPES 5.5mm/4.9mm SWITCH PROBE

### Kits include:

- HU23090: screw on mirrors 110° (HU23006); 5,5mm, forward-view cable (HU23042), 4GB SD card, AV cable, 4xAA batteries
- HU23095: 4,9mm diameter switch probe (HU23058), 4GB SD card, AV cable, 4xAA batteries

Item nr	Ø	Lamp	Mirror
HU23090	5,5mm	4 LED	110° screw-on
HU23095	4.9mm	3 LED Front 3 LED Side	/



HU23090 / HU23095



# ENDOSCOPES

## « HANDY » VIDEOSCOPE KIT

HU23105



**The essential you need with the best dual cameras  
4,9mm probe !**

Videoscope:

- Compact, lightweight
- Zoom 1.5 x
- Very high quality 2.4" TFT LCD Monitor with glass protection
- AV out port
- Very competitive price

Probe:

- Detachable semi-rigid metal shaft, oil-, fuel- and scratch-resistant (IP67) with 4,9mm diameter tip
- The «in-line» switch allows to change from side-view to forward-view during the inspection
- Forward view and side view
- Two in one shafts : the special tip includes 2 cameras and 2 LED lightsources



HU23069

## HIGH DEFINITION PROBE 5.5MM

- For DELUXE videoscope
- Solid metal connector
- 5.5mm diameter, 1m long
- IP67: scratch resistant, water-, oil- and fuel-resistant

**Special features:**

- Boost feature : using under the low lux environment, the brightness and contrast of the image will be optimized.
- Particle-free feature : the light button coupled with the mirror erases the spots that often trouble the vision when using a mirror (improves particle effect).
- 4 forward LED for normal use and 2 side LED for use with mirror (included in the kit)
- 360° screen rotation feature (90° phases)





# ENDOSCOPES

## HIGH DEFINITION ARTICULATED PROBE 6MM

HU23070



- 6mm diameter, 1m long with 360° view articulated tip
- IP67: scratch resistant, water-, oil- and fuel-resistant
- Articulated angle 2 ways / up 155° / down 155°

### Special features:

- Boost feature : using under the low lux environment, the brightness and contrast of the image will be optimized.
- Particle-free feature : the light button coupled with the mirror erases the spots that often trouble the vision when using a mirror (improves particle effect).
- 3 forward LED for normal use and 2 side LED for use with mirror (included in the kit)
- 360° screen rotation feature (90° phases)



HU23077

## HIGH DEFINITION ARTICULATED PROBE KIT

**Kit includes:**

- Exclusive videoscope (3,5" screen with ergonomic probe connection and a maximum of features : Digital zoom 3x 5x, Complete Mirroring and Rotating, Photos AND Videos recording, Light adjustment, 22 languages available)
- High Definition Probe (IP67 6mm diameter, 1m long with 360° view articulated tip, boost & particle-free features...)



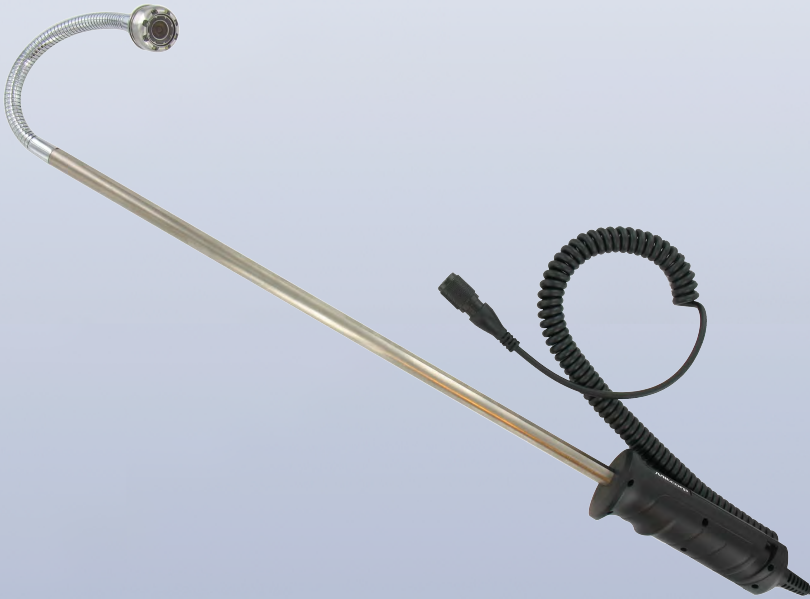
# ENDOSCOPES

## HAND HELD CAMERA

HU23099



- 28mm IP68 quality camera with 8 bright LED
- 65cm long probe with 19cm semi-rigid part (IP65 quality)
- Depth of field : 10mm to  $\infty$
- Field of view : 150°
- Ideal to inspect areas that are higher or lower
- Application field : ideal for truck tires (data, part number checking)



HU23100

## HAND HELD CAMERA KIT WITH EXCLUSIVE VIDEOSCOPE



- 28mm IP68 quality camera with 8 bright LED
- 65cm long probe with 19cm semi-rigid part (IP65 quality)
- Depth of field : 10mm to  $\infty$
- Field of view : 150°
- Ideal to inspect areas that are higher or lower
- Application field : ideal for truck tires (data, part number checking)

### Kit includes:

- Exclusive videoscope (command box)
- Hand held camera





# ENDOSCOPES

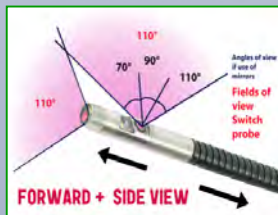


## 2 IN 1 SWITCH PROBE 4.9MM

HU23058



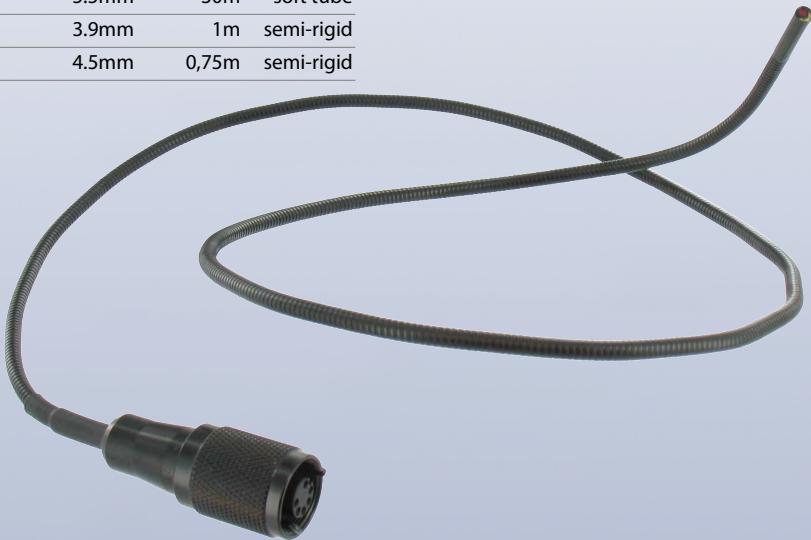
- Can be used on any Hubitools videoscopes with detachable shaft
- Two shafts in one : the special tip includes two cameras and two LED lightsources
- Forward view and side view
- The «in-line» switch allows to change from side-view to forward-view during the inspection
- IP67: scratch resistant, water-, oil- and fuel-resistant



## FWD-VIEW PROBES

## FORWARD-VIEW CABLES W/ METAL CONNECTOR

Item nr	Ø	L	Spec
HU23042	5.5mm	1m	semi-rigid
HU23043	5.5mm	2m	semi-rigid
HU23044	5.5mm	3m	semi-rigid
HU23055	5.5mm	1m	soft tube
HU23019	5.5mm	2m	soft tube
HU23046	5.5mm	3m	soft tube
HU23051	5.5mm	5m	soft tube
HU23021	5.5mm	10m	soft tube
HU23056	5.5mm	20m	soft tube
HU23053	5.5mm <td 30m	soft tube	
HU23054	3.9mm	1m	semi-rigid
HU23057	4.5mm	0,75m	semi-rigid



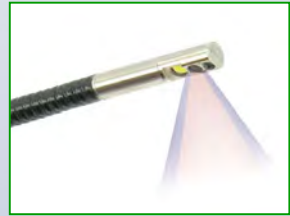
# ENDOSCOPES

## SIDE-VIEW CABLE

HU23045



- for all Hubitools videoscopes
- more solid metal connector
- semi-rigid
- 5.5mm diameter, side-view
- 1m long
- IP67: scratch resistant, water-, oil- and fuel-resistant



## 3,9MM SIDE-VIEW SHAFT

HU23064



- for all Hubitools videoscopes
- more solid metal connector
- 3.9mm diameter, side-view
- 1m long
- IP67: scratch resistant, water-, oil- and fuel-resistant

HU23063

**ADAPTOR FOR TIO**

Allows you to plug Hubitools unique shafts into a competitor videoscope command box.



HU23066

**CONVERTER FROM PLASTIC TO METAL CONNECTOR**

Allows you to plug Hubitools new shafts with metal connector into previous plastic connector command box.





# ENDOSCOPES

## MIRRORS FOR VIDEOSCOPIES 5.5mm AND 4.5MM

HU23004/05/06/37/38/39



Item nr	Ø	Spec
HU23004	5.5mm	90°
HU23005	5.5mm	70°
HU23006	5.5mm	110°
HU23037	4.5mm	70°
HU23038	4.5mm	90°
HU23039	4.5mm	110°

## ROTATING 360° MIRRORS FOR VIDEOSCOPE 3.9MM

HU23022/34/35



Item nr	Spec
HU23022	110°
HU23034	90°
HU23035	70°

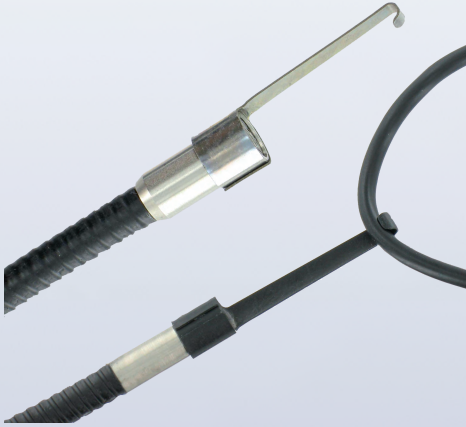
## MIRROR FOR VIDEOSCOPE 8.5MM

HU23026



HU23041/HU23020/HU23028

## HOOKS FOR VIDEOSCOPIES



Item nr	Ø
HU23041	4,5mm
HU23020	5,5mm
HU23028	8,5mm

HU23040/HU23009/HU23027

## MAGNETS FOR VIDEOSCOPIES



Item nr	Ø
HU23040	4,5mm
HU23009	5,5mm
HU23027	8,5mm

# ENDOSCOPES

## 2 IN 1 MAGNET/HOOK FOR 2 IN 1 SWITCH PROBE

HU23071



HU23086

**BASE HOLDER FOR ARTICULATED PROBE**

- Ideal to inspect areas that are higher or lower by stiffening the probe
- Grip button included in the holder
- Holder dimension : 120mm X 40mm x 40mm
- Steel tube length : 540mm / 990mm
- Weight : 220g
- To be used with 6mm articulated probe (HU23070)





# ENDOSCOPES

## SUPPORT FOR VIDEOSCOPIES

HU23074



- Attach behind the videoscope thanks to its threaded fastener
- Flexible support (30cm)
- Powerful grip with antiscratch foam



HU21042

## SLIM LIGHT RECHARGEABLE INSPECTION LIGHT

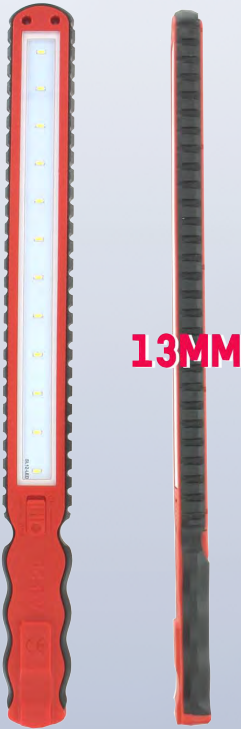
- Ergonomic handle design
- Can be charged directly on the USB port of the car
- Rating : 12V DC
- Output : 5V / 1A
- LED: 0,5W, 9pcs, white (5500k)
- Luminous flux : 242Lm
- Battery : Li-ion 3,7V 2200mA rechargeable (3,5hours fully charging for lasting 5 hours illumination)
- Accessory : HU21042-1 magnet holder (not included)



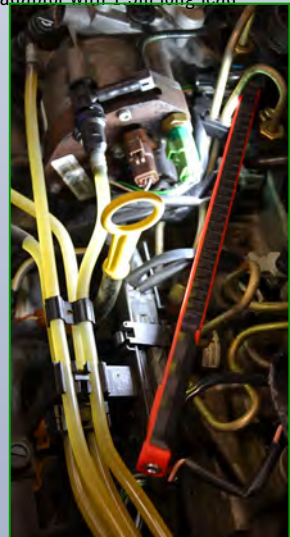
# LIGHT TOOLS

## ULTRA THIN RECHARGEABLE LIGHT

HU21036



- 3.7v 1800 mAh Rechargeable Li-Polymer battery
- Fast charging : 3H charge for 4H Full Mode / 8H Half Mode
- Slide switch for zero consumption
- 12 white LED 250 Lux @ 0.5m
- Efficient Uniform light intensity
- Wide Area Illumination 120 degree beam angle
- Microprocessor controlled constant brightness ensures stable lighting performance
- Integrated dual mode push button switch controlled full and half brightness mode
- Integrated 2 LED indicates charging, low battery and battery fault
- Built-in thin film temperature sensor to inhibit charging at high and low temperature to guarantee the battery life
- Built-in over-charge, over-discharge and short-circuit battery safety protection
- High rigidity strength and excellent chemical resistance housing
- Overmolded elastomer enhance shock absorption and grip
- Shatter resistance polycarbonate lens
- Universal Charger adaptor with 1.5m long lead



HU21041

## INSPECTION SLIM BAR LED WORK LIGHT

- High intensity LEDs with super slim 6mm(T) / 50g
- Illuminate the deep and narrow path
- Specially targeted for automotive maintenance in-car checking and home maintenance
- Designed to operate at 12VDC, delivered with 5m cord and a 240V-12V charger with 1,5m additional cord
- Highly efficient low power consumption design that ensure smooth uninterrupted operation over long hour of continuous use (50,000 hours)
- White light source for colors visualization (250 LUX @ 0,5m)
- Ruggedly designed and constructed on high performance engineering material and components to ensure surpassing the long service life expectation in harsh and tough maintenance environment
- Complies with Green Product Practice in line with RoHS and WEEE directive





# LIGHT TOOLS

## FLEXIBLE LED LIGHT

HU21028



**Hands free, ultra-thin, ultra-flexible, ultra-versatile L.E.D. flood light.**

- **SHAPE-LOC™ FRAME** : Bend, Fold, Wrap, hook the light on or around objects to position and aim the light
- **VERSATILITY**: Attach FLEXiT to metal objects using the neodymium magnets, hang loop, or place on a flat surface and use as a freestanding light
- **«LUMEN TECH™ LEDs** : 16 High output wide angle intensely bright Light Emitting Diodes with three light functions (low, med, and high) that can be bent into positions to create a focused spot or a broad flood light
- The durable ABS base holds 3 AA batteries (included), the electronic switch and circuit, two large neodymium (rare earth) magnets, and a loop to hang or mount the light
- **Size** : thick 2cm, width 18cm, height 33cm



STE96285

**BEND-A-LIGHT LED PRO**

- Goes where ordinary lights won't fit
- 600 mm long
- 5mm diameter shaft
- Flexible brass alloy shaft holds the desired position and shape
- Protective cover can also be used as an extension
- Industrial grade On/Off switch
- Improved anodized aluminum housing is corrosion resistant
- 3 X AA batteries included
- STE96402 : replacement bulb with a 50,000h life time



# LIGHT TOOLS

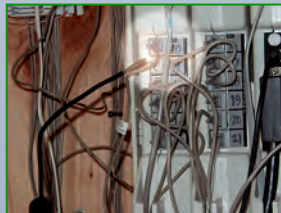
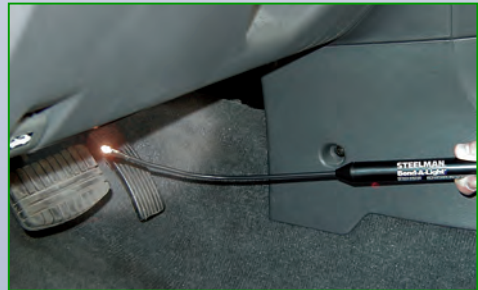
## HIGH INTENSITY FLEXIBLE INSPECTION LIGHT

STE10150A- STE15150A



- Goes where ordinary lights won't fit
- Protective cover can also be used as an extension
- Alkaline batteries included
- Shaft diameter : 5mm

Item nr	L	Lamp
STE10150A	400 mm	STE12100 
STE15150A	600 mm	STE12110 



HU21016

## MINI LED LIGHT



- Ultra slim penlight
- High intensity and long-lasting LED light
- Easy and convenient carry

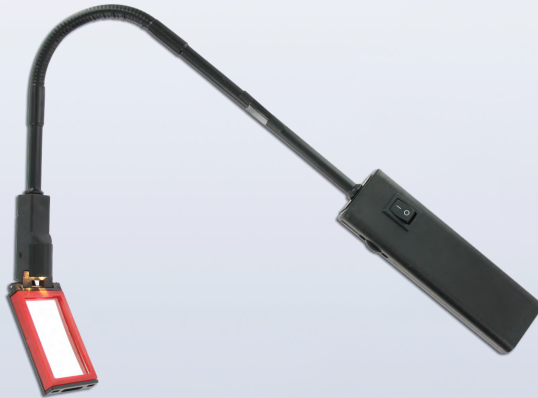




# MIRRORS AND MAGNETS

## LIGHTED INSPECTION MIRROR

STE05240AB



- 600mm long flexible shaft
- thumb controls 90° mirror adjustment
- powerful lamp to illuminate the dark areas
- STE05515 : bulb
- STE05152 : mirror (30x55 mm)



## FLEXIBLE INSPECTION MIRROR

H0R624



- Reaches inaccessible, awkward places
- Press-action to bend mirror
- Overall length: 500mm



CAMR01- CAMR02- CAMR03

TELESCOPIC MIRRORS



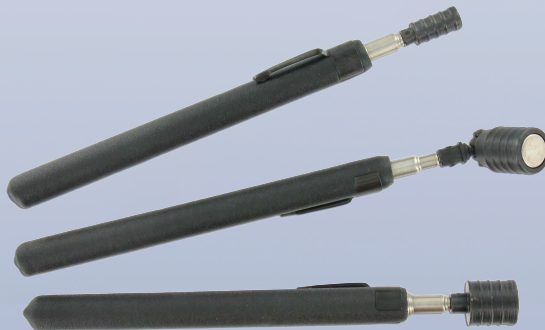
- High quality
- Solvent-resistant
- Shatter-resistant

Item nr	Mirror	Tel.rang	Swivel	Spec
CAMR01	55 x 90	180 mm	Swivel:	
		mm	-> 810	180°
			mm	
CAMR02	45 x 60	170 mm	Swivel:	
		mm	-> 665	180°
			mm Rotate:	
				360°
CAMR03	20 x 60	170 mm	Swivel:	
		mm	-> 665	180°
			mm Rotate:	
				360°



CAMG01- CAMG02- CAMG03

TELESCOPIC MAGNETS



- Stainless steel
- Fitted with the "Energy ring" in order to eliminate side pull

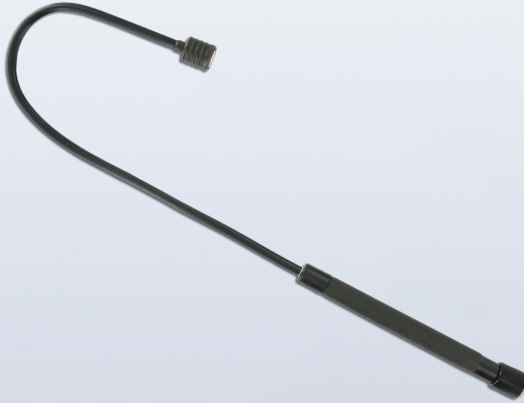
Item nr	Tel.rang	Magnet	Spec
CAMG01	180mm	5000 g	Fixed Head
	->		
	810mm		
CAMG02	200mm	5000 g	Swivel:
	->		180°
	830mm		Rotate:
			360°
CAMG03	180mm	5000 g	Fixed Head
	->		
	810mm		



# MIRRORS AND MAGNETS

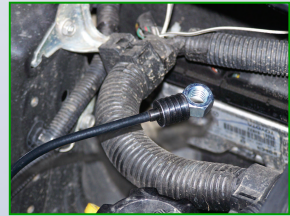
## FLEXIBLE MAGNETS

CAFMO1-CAFMO2



- Dual purpose flex shaft: permanent bend or quick changeable bend
- Fitted with the "Energy ring" in order to reduce side pull

Item nr	Magnet
CAFMO1	1500 gr
CAFMO2	5000 gr



## MINI TELESCOPIC MAGNET & NEEDLE 2 IN 1

LT4020332B



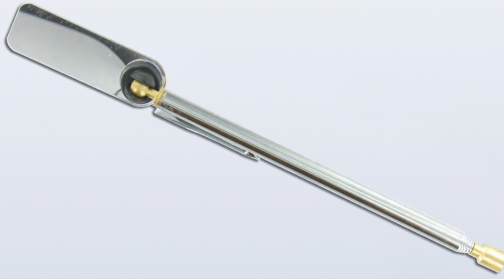
### Multi-purpose tool:

- Magnet helps picking up small metal parts
- Needle for spray nozzle clean up and adjustment
- Needle can also be used for tracing and marking
- Extends from 140mm to 490mm



CAPM01BM

## TELESCOPIC COMBINATION PEN-SIZED MAGNET AND MIRROR 2 IN 1

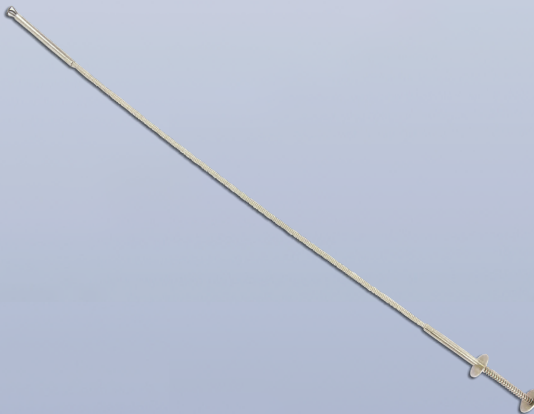


- Extends from 145mm to 650mm
- Shatter-resistant mirror
- Mirror size: 20mm X 60mm
- Magnet capacity : 500gr



AB70237

## FLEXIBLE SPRING WITH 4-CLAW PICK-UP TOOL



- Reach inaccessible, awkward places
- Press-action to expand and contract
- Overall length: 570mm





# MIRRORS AND MAGNETS

## LIGHTED PICK-UP CLAW

HU21002

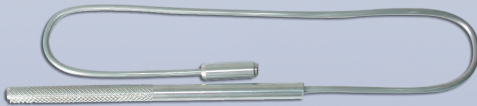


- four claw jaw ideal to pick up non-magnetic objects
- 560mm flexible shaft
- 1 LED
- reaches and retrieves in confined and dark areas



## FLEXIBLE ALUMINIUM MAGNETIC PICK-UP TOOL

AB70168



- Bends and holds any position
- Extra-powerful magnet
- Overall length: 552mm





# ELECTRONIC TESTERS



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## INFO

## Infrared thermometers or how to measure temperature in the best and safest way

Infrared thermometers instantly measure temperature using blackbody radiation (generally infrared) emitted from objects. They are also called laser thermometers or non-contact thermometers to describe the device's ability to measure temperature from a distance, the laser being very helpful to target the source of heat. By knowing the amount of infrared energy emitted by the object and its emissivity, the object's temperature can be determined.

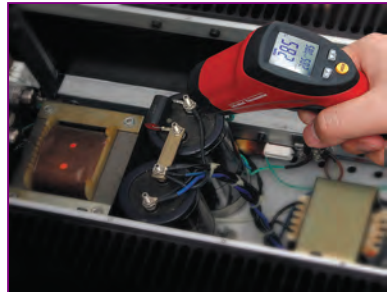
With their ability to avoid contact with the object to be measured, the infrared thermometer is useful under circumstances where thermocouples or other probe type sensors cannot be used or do not produce accurate data for a variety of reasons.

Some typical circumstances are where the object to be measured is moving or surrounded by an electromagnetic field (induction heating)...

Infrared thermometers can be used to serve a wide variety of temperature monitoring functions such as:

- checking mechanical equipment or electrical circuit breaker boxes or outlets for hot spots
- checking heating or cooling installations
- checking brakes, cooling system, A/C...
- making temperature comparisons easily and quickly

Hubitools infrared thermometers are designed for flexible and portable handheld use and feature many useful functions such as distance-to-spot ratio (D:S) (the ratio of the distance to the object and the diameter of the temperature measurement area), fixed or adjustable emissivity (to measure the temperature of reflective (shiny) and non-reflective surfaces)... Only two infrared thermometers are presented in this chapter, but Hubitools still has many other in its wide range of products. Do not hesitate to ask for more info.





# MULTIMETERS

## MULTIMETER PRO FOR HYBRID VEHICLES

HU31010



- CAT III (1000v) safety rating for hybrid vehicle circuits and all other automotive applications
- Higher amperage test ranges, up to 20 Amps
- RPM measurement for automotive engines with 2 to 10 cylinders using the inductive Pick-up
- Oversized high contrast LCD display with backlight
- 14 Functions including DCV, ACV, DCA, ACA, Resistance, RPM (Tach), Frequency, Dwell angle, Duty cycle, Temperature (IR Temperature) (°C/°F), Capacitance, Continuity and Diode Check
- Data Hold, auto Power Off, over-range indication
- Fused current inputs/overload protection on ranges
- Measures milliseconds pulse width to test on-time of fuel injectors, idle air control motors and electronic transmission controls



**PROBES COMPLY TO NEW  
IEC61010-031:2008  
NORM VALID FROM  
01/03/2011**

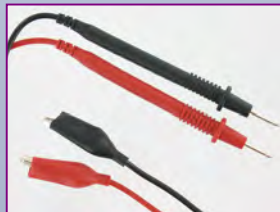
AB70617

## MULTIMETER

- Specially designed for all automotive applications
- Functions:
  - voltage : AC (3,2V - 1000V) DC (3,2V - 750V)
  - current : AC (32mA - 10A) DC (32mA - 300mA)
  - resistance from 320Ω to 320KΩ
  - frequency from 0,01Hz to 32kHz
  - diode check
  - RPM from 0 to 12,000
  - temp. measurement (-20°C - +1370°C)
- Automatically turns off after 10 min
- Accessories: test and temperature probes, test clamps, inductive clamp for tachometer



**PROBES COMPLY TO NEW  
IEC61010-031:2008  
NORM VALID FROM  
01/03/2011**



# MULTIMETERS

## DIGITAL MULTIMETER

HU201



Measures:

- Voltage DC : 600V
- Voltage AC : 600V
- Current DC : 10A
- Current AC : 10A
- Resistance : 20M $\Omega$
- Diode check : test current of 1mA maximum, open circuit voltage 2.8V DC typical
- Continuity test : audible signal will sound if the resistance is less than approximately 30 $\Omega$
- Temperature: from -20°C to 760°C



**PROBES COMPLY TO NEW  
IEC61010-031:2008  
NORM VALID FROM  
01/03/2011**



HU31011

## 3 IN 1 POCKET MULTIMETER

- Digital multimeter
- CAT III 1000V
- 200mA resettable fuse protection
- Voltage DC : 600V
- Voltage AC : 600V
- Current DC : 200mA
- Current AC : 200mA
- Resistance : 40M $\Omega$
- Diode check
- Continuity check

**Non-contact voltage detection (100V - 600V)**

**Integrated flashlight**



**PROBES COMPLY TO NEW  
IEC61010-031:2008  
NORM VALID FROM  
01/03/2011**



# MULTIMETERS

## VAT VOLTAGE AND CONTINUITY TESTER

HU31009



- Voltage, continuity, polarity and phase tester with flashlight
- Large backlit LCD display with bargraph
- LCD AC/DC voltage indication: 6V, 12V, 24V, 50V, 120V, 230V, 400V, 690V
- Polarity detection shown on the LCD display
- Continuity test with audible tone
- Phase rotation test
- Integrated flashlight
- IP64 housing dust- & waterproof
- Overvoltage class CAT III 1000V/ CAT IV 600V
- VAT self-test button



HU9800T

## DIGITAL CLAMP METER WITH INTEGRATED DISPLAY

- AC/DC Current to 600A (ideal for automotive applications)
- AC/DC Voltage to 600V
- Resistance, temperature
- Continuity beeper and diode test
- Auto Power Off



# MULTIMETERS

## AUTOMOTIVE CURRENT TESTERS 20A

HUCF02 - HUCF02S

Item nr	Spec
HUCF02	for standard blade type fuses
HUCF02S	for mini-blade type fuses

- Maximum measuring voltage: 48V
- Maximum current: 20A

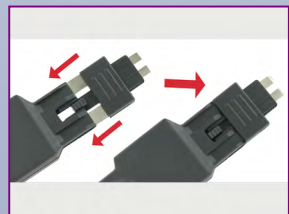
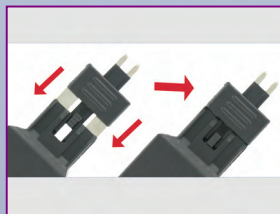


HUCF08

## AUTOMOTIVE CURRENT TESTER 80A



- Ideal to diagnose current leaks (consumption)
- Maximum measuring voltage: 48V, max current: 80A
- Large LCD display with bar graph
- Peak hold and data hold function
- Zero setting for accurate measurement
- For large, standard and mini blade type fuses





# MULTIMETERS

## THE AMP HOUND

HU31019



- Designed to drastically reduce the amount of time needed to determine the amount of current in a fused circuit
- Can detect as small as 0.005 AMP
- Ideal to locate parasitic draw
- No need to remove fuse risking a reset of the circuit
- Makes it possible to very quickly “sniff out” any currents that are flowing in an entire Fuse Block in only a few seconds



HU31017

## RELAY CIRCUIT PRO



- Can test an entire circuit from the battery to the component in question
- Determine if the relay itself is functioning properly
- Instantly determine the problem within the circuit
- No need of a multimeter : just push the button
- Features easily accessible ports for use with other diagnostic tools for further diagnostic
- Can be used as a remote control starter in engine work like compression testing, distributor or cam shaft adjusting, to run the compressor ...
- Kit includes tester, 6 popular relay connectors, 1 universal relay lead - Patent pending
- Works with both 12 and 24 volts systems



# MULTIMETERS

## 12V AUTOMOTIVE RELAY TESTER

HU31012



- Quickly and accurately test 3 categories of terminal electro-mechanical relays used on most cars
- Interrogate and identify an unknown relay terminal configuration then self-configure its own internal circuitry to perform all required test functions automatically
- Unit automatically indicates test results with a red and a green performance lights
- Contact resistance threshold : 200 Milliohms



HU31014

## AUTOMOTIVE DIGITAL INTELIPROBE 0-24V

- Detects currents from 0V to 24V DC
- Activate the components with positive or negative current thanks to its 6m cable
- Determine the polarity and circuit circumstance (short-open / green or red LED)
- Short circuit protection
- Test the continuity of the circuit
- Locate missing cylinders
- Digital LCD display
- Integrated LED light, ideal for work in dark places
- Ignition in kV





# MULTIMETERS

## INTELIProbe

HU285



- Energize components
- Polarity test
- Continuity test
- Short circuit protection
- 6V-24V DC

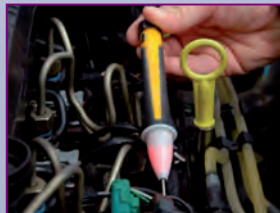


HU31015

## AUTOMOTIVE CIRCUIT VOLTAGE TESTER



- Test common automotive circuits up to 12 volts
- Bright 360 degree visual indication + audible signal
- Alligator clip connects to ground
- Long flexible test lead
- Quickly test automotive circuits for proper voltage



# MULTIMETERS

## CORDLESS CIRCUIT TESTER

HU31001



- Suitable for testing DC circuits with voltage from 3 and 28V
- No ground wire or clip required
- Tester illuminates LED, buzzes and vibrates on contacting live wire
- Computer-safe for use around delicate engine management systems
- Supplied fitted with 2 X long life alkaline batteries



## POLARITY CORDLESS CIRCUIT TESTER

HU31002



- Suitable for testing 6-28V DC circuits
- No ground wire or clip required
- LED display shows polarity
- Computer-safe for use around delicate engine management systems
- No batteries required



HUDT8861

## LASER INFRARED THERMOMETER (-50°C-550°C)



- Precise non-contact thermometer
- Two laser points to a single spot when the unit is at the optimal distance from the target
- Temperature range : -50°C to 550°C
- Unit selectable (C°/F°)
- Accuracy : +/-2%
- Distance ratio : 12:1
- Emissivity adjustable
- Ideal for air-conditioning, cylinder temperature, brake temperature, cooling system temperature
- Batteries included
- Automatic Data Hold
- Set high and low alarms
- Trigger lock





# THERMOMETERS

## LASER INFRARED THERMOMETER (-50°C-1000°C)

HU8865



- Precise non-contact thermometer
- Two laser points to a single spot when the unit is at the optimal distance from the target
- Temperature range : -50°C to 1000°C
- Unit selectable (C°/F°)
- Accuracy : +/-2%
- Distance ratio : 30:1
- Emissivity adjustable
- Ideal for exhaust system, air-conditioning, cylinder temperature, brake temperature, cooling system temperature
- Batteries included
- Automatic Data Hold
- Set high and low alarms
- Trigger lock



STE97215

## WIRELESS ELECTRONIC STETHOSCOPE



Quickly pinpoints source and location of noise during a road test, even on long vehicles (such as trucks, buses...).

Clamps can be fixed onto springs, shocks, body mounts, brakes, engine blocks, etc.

**Includes:**

- a receiver with four channels
- 4 transmitters
- 4 sensor clamps



# STETHOSCOPE

## SMARTEAR1 HARDWARE KIT

STE91927



### Electronic stethoscope to be used with smartphone (free app available)

- Will transform your iPhone®, iPod touch®, iPad® or Android into a state of the art Sound Detection Tool allowing for ease of locating and pinpointing those hard to find squeaks and rattles
- User friendly interface and intuitive operation
- Sound level reading displays average, peak, and real-time values
- Sound level readings are displayed in either Analog or Digital
- Selectable Audio Sound or Vibration input modes

### Kit includes:

- 3.5mm 4 Pin Dual Plug Dongle
- 2pc. Wired Sound Wand w/ Detachable Handle & 120cm Cord (Mono)
- Aluminum Probe w/ Rubber Tip
- Comfort-fit Ear-buds w/ Mesh Braid w/o Volume or Mic (Stereo)
- Sensor Clamp w/ 40cm Cord (Mono)



STE91925

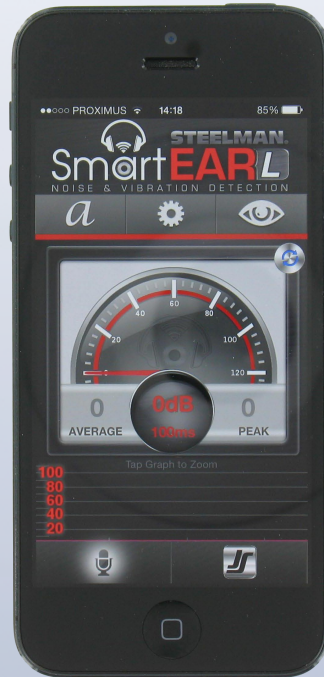
## SMARTEAR LITE HARDWARE KIT

**Electronic stethoscope to be used with smartphone (free app available)**

- Will transform your iPhone®, iPod touch®, iPad® or Android into a state of the art Sound Detection Tool allowing for ease of locating and pinpointing those hard to find squeaks and rattles
- User friendly interface and intuitive operation
- Sound level reading displays average, peak, and real-time values
- Sound level readings are displayed in either Analog or Digital

**Kit includes:**

- 3.5mm 4 Pin Dual Plug Connector
- 2pc. Wired Sound Wand w/ Detachable Handle & 120cm Cord (Mono)
- Aluminum Probe w/ Rubber Tip
- Comfort-fit Ear-buds w/ Mesh Braid w/o Volume or Mic (Stereo)





# STETHOSCOPE

## HVAC ULTRASONIC LEAK DETECTOR 2 IN 1

HU33003



- High sensitivity and quality
- Ideal for A/C leaks
- Other applications: inspect and check vacuum and compressed air leaks (compressed air/gas installation ...), electrical systems (insulation breakdown, arcing, relays,...), LPG system, tire leaks, tightness of passenger compartment...
- Rotating volume switch
- Ultra visible LED bar



STE06606

## ELECTRONIC STETHOSCOPE: COMPLETE SET



Designed to allow the user to listen to amplified sounds through a professional set of headphones during a road test.

Clamps can be fixed onto many vehicle locations for road testing when diagnosis is difficult.

**Use for :**

- Road test diagnosis
- Under bonnet
- Fuel injectors
- Kit contents a receiver, 6 microphone clamps, a noise amplifier with metal probe, headphone



# STETHOSCOPIES

## NOISE AMPLIFIER

STE06400



Use this tool to detect :

- Defective piston rings or bearings
- Air leaks
- Grinding and clicking sounds...



HUSM25

## SOUND LEVEL METER

- Monitors the sound levels from traffic noise, cars, motorcycles, alarm systems and workplace machinery
- Digital display with analogue graph
- 40dB to 130dB
- Accuracy: +/- 2dB
- Fast & slow response selectable





# BATTERY TESTERS

## NEW GENERATION LITHIUM BOOSTER AND POWERBANK - 600A

HU34021



- Uses 18000mAh high capacity, high power, battery, that is fast charging and has low self-discharge, cycles can reach 1000 times
- Features include 12V emergency start, LED flashlight and USB port for device use and charging and 19V Laptop output
- Three (3) lighting modes: Standard, Strobe, SOS
- Multiple built in safety features
- Includes patented technology
- Dimensions: 230mm L x 85mm H x 28mm W
- Weight: 700g
- Start current : 300A
- Peak current : 600A
- Capacity : 66.6Wh



HU34020

## NEW GENERATION LITHIUM BOOSTER AND POWERBANK - 400A



- Uses 12000mAh high capacity, high power, battery, that is fast charging and has low self-discharge, cycles can reach 1000 times
- Features include 12V emergency start, LED flashlight and USB port for device use and charging and 19V Laptop output
- Three (3) lighting modes: Standard, Strobe, SOS
- Multiple built in safety features
- Includes patented technology
- Dimensions: 150mm L x 80mm H x 30mm W
- Weight: 400g
- Start current : 200A
- Peak current : 400A
- Capacity : 44.4Wh



# BATTERY TESTERS

## 4 WATT SOLAR POWERED MAINTAINER WITH OBD2 CONNECTOR

HU34018



- Portable solar generator built into a protective platform
- Designed to charge 12V lead-acid batteries with no additional running costs
- Bypass diode minimizes power drop during shade
- Shatterproof tempered glass for superior durability
- Easy to install and maintenance free
- Includes: 12 Volt DC plug, alligator battery clamps, suction cups to easily mount the solar panel to the vehicle's windshield and OBD2 connector
- No main power or wiring required, requires only daylight to work, charges even if the weather is overcast or dull



HU34013

## DIGITAL BATTERY CHARGER/MAINTAINER

### 220-240V - 1.5 AMP



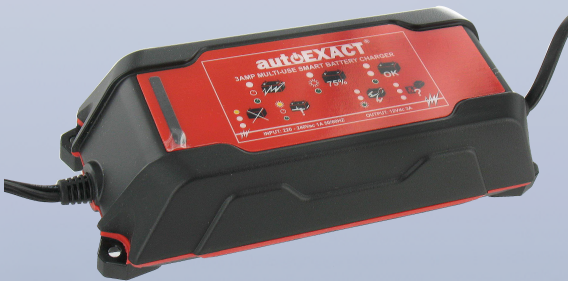
- 12V switching power digital battery charger and maintainer
- AC voltage : 220-240V
- Charge current : 1.5 Amp
- Application : 12V SLI/VRLA / GEL/AGM, CAL/CAL & SPIRAL batteries
- Features IP65 water resistant (dust/splash/rain protection), auto-polarity, spark free & over charging protection
- 170x73x48mm



HU34014

## DIGITAL BATTERY CHARGER/MAINTAINER

### 220-240V - 3 AMP



- 12V switching power digital battery charger and maintainer
- AC voltage : 220-240V
- Charge current : 3 Amp
- Application : 12V SLI/VRLA / GEL/AGM, CAL/CAL & SPIRAL batteries
- Features IP65 water resistant (dust/splash/rain protection), auto-polarity, spark free & over charging protection
- 170x73x48mm





# BATTERY TESTERS

## DIGITAL BATTERY CHARGER/MAINTAINER 220-240V - 5 AMP

HU34015



- 12V switching power digital battery charger and maintainer
- AC voltage : 220-240V
- Charge current : 5 Amp
- Application : 12V SLI/VRLA / GEL/AGM, CAL/CAL & SPIRAL batteries
- Features IP65 water resistant (dust/splash/rain protection), auto-polarity, spark free & over charging protection
- 170x73x48mm



HU34012

## START & STOP BATTERY & ELECTRICAL SYSTEM ANALYZER WITH PRINTER

**Specially designed for Start & Stop systems**

**Exclusive design by Hubitools**

- Tests 6V-12V batteries and 12V-24V volt charging & starting systems
- Integrated printer
- Digital screen
- Operating range: 40 ~ 2000 CCA
- Tests EFB, VRLA / GEL , AGM Flat Plate, AGM Spiral and Regular Liquid batteries in 2 seconds
- Rating system: SAE (CCA)/ DIN / EN / IEC and JIS
- 6 languages available

**In 2017, 90% of new vehicles will be supplied with Start & Stop system.**

**Two battery technologies : AGM and EFB**

- EFB technology is used on « low efficiency » vehicles that feature Start & Stop systems but only have essential basic comfort equipments
- AGM technology is used on vehicles with extra equipments, such as devices for recovering brake energy

Hubitools launches its own new generation START & STOP BATTERY & ELECTRICAL SYSTEM ANALYZER that allows testing the following systems that features both AGM and EFM technologies:

Fiat > S&S

VW > BlueMotion

Ford > ASS (AutoStartStop)

Mercedes-Benz > BlueEfficiency

Opel > ecoFLEX start/stop

PSA > e-HDI

Renault > Energy

Seat > Ecomotive



# BATTERY TESTERS

HU34012



## HUBT2000

**DIGITAL BATTERY CHARGING AND STARTING SYSTEM TESTER WITH PRINTER**

- Tests 6V-12V batteries and 12V-24V charging system
- Integrated printer
- Digital screen with adjustable brightness
- Operating range: 40 ~ 3000 CCA
- Tests REGULAR LIQUID, VRLA/GEL and AGM (FLAT PLATE or SPIRAL) batteries in 2 seconds
- Rating system: SAE / DIN / EN / IEC and JIS
- Languages available : EN, FR, DE, ESP, IT and P
- Integrated ampmeter (with clamp)
- Detachable test lead 180cm
- Temperature compensation sensor (infrared)
- Test data storage: 1000 tests max
- USB cable for data transmission to pc
- Voltage test probe
- Customer and battery codes

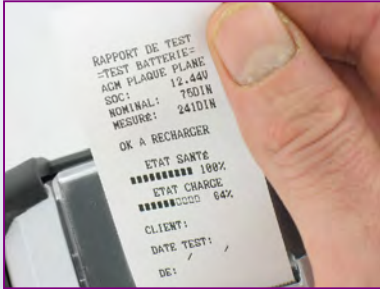




# BATTERY TESTERS

## DIGITAL BATTERY CHARGING AND STARTING SYSTEM TESTER WITH PRINTER

HUBT501



- Tests 6V-12V batteries and 12V-24V charging system
- Integrated printer
- Digital screen
- Operating range: 40 ~ 2000 CCA
- Tests VRLA / GEL / AGM and SLI batteries in 2 seconds
- Rating system: SAE / DIN / EN / IEC and JIS / AH
- 7 languages available



LT446100AMP

## ANALOGUE BATTERY LOAD TESTER



- True 100 AMP load capacity
- Test 6 and 12V batteries up to 1,000CCA



HU50888

## DIGITAL BATTERY LOAD TESTER AND CHARGING SYSTEM ANALYSER



- Bright LED digital display
- Easy to use : push one button to complete the test within 10 seconds
- Tests 12V battery ratings of 200 to 1000CCA range
- Tests 12 volt charging system and starter motor system



# BATTERY TESTERS

## 6 AND 12V BATTERY TESTER

HUBT111



- Light and compact, for testing 20 to 150Ah batteries
- Instant analysis of VRLA / GEL / AGM and SLI batteries (results in 1 second)
- Powered directly from the battery to be tested



HU34011

## OBD2 DATA SAVER



- Prevents data loss in onboard electronic system when changing the battery
- Connect directly to the vehicle's OBD2 port or cigarette port
- High capacity, rechargeable sealed lead acid battery 12V 4,5A
- LED light shows good connection
- Surge protection
- Reverse polarity warning
- Power on-off switch





## DATA SAVER

HU35001



- Prevents data loss in onboard electronic system when changing the battery
- 12V DC
- Dual connection option
- Surge protection
- Reverse polarity warning





HU35005

## MULTIVOLTAGE GLOW PLUG TESTER

The Multivoltage Glowplug Tester is the ultimate tool to test the status of diesel glow plugs.

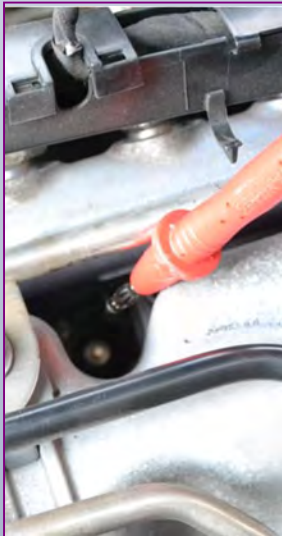
It will indicate whether there is an open circuit or a short circuit or if the glow plug is in a good state. In this last case, it will also display the actual resistance of the glow plug for the user to evaluate whether or not the glow plug is nearing an out of specification state.

- Universal: works on all type of voltage available on the market
- Easy to use
- Results are easy to read
- Shrouded high quality interchangeable leads which plug into the top of the unit
- Works on 2 AAA batteries
- Oil resistant label





HU35005



**Hubitools**  
www.hubitools.com

HU14001

## ULTRASONIC LEAK DETECTOR



**Quickly find air and water leaks within the vehicle.**

- Transmitter gives out a specific frequency of ultrasonic sound waves that do not travel through glass or metal
- Easy to use (no driving required)
- Audible and visual indication of leak
- Set includes a transmitter and a receiver and improved headphones
- Works on 9V batteries





## AUTOMOTIVE SHORT AND OPEN CIRCUIT FINDER

HUS100



- For all vehicles and cables from 6 to 24V DC
- Locates short and open circuits
- Circuit tracing



HU35012

## HUMIDITY &amp; TEMPERATURE METERS

- Compact probe size digital hygro-thermometer, ideal for field use with high performance
- Fast response time
- High performance
- Max hold and data hold functions
- Dual display & backlight
- Humidity range: 0~100%RH / accuracy:  $\pm 3.5\%$ RH
- Temperature range : -20~60°C/ -4~140°F / accuracy:  $\pm 2^\circ\text{C}/4^\circ\text{F}$
- 9V battery included



## SURGE PROTECTOR 12V/24V

HUDSP12/24



- Protects vehicle electronics from voltage spikes during welding or boost starting
- Fuse protection
- Reverse polarity protection
- Easy to use: a green light lights up when the device is properly plugged
- Visual and audible warning



HUDCR

## DIESEL FUEL PRESSURE METER (0 – 1500 BAR SYSTEMS)

- Used to monitor the fuel pressure on common rail injection systems, whilst the motor is operating
- The digital screen will display the actual fuel pressure in the system and the unit will also retain the maximum pressure reading in memory

### Technical Specifications:

- Operating Voltage: 12V DC
- Sense Voltage: 0 – 5V
- Pressure Measurement: 0 – 1500 Bar
- Accuracy: Sensor +/- 5%
- Sample Rate: 3 readings per second
- Error Display:  $V_{sense} < 0.5V$





## 2 IN 1 TACHOMETER

HU35002



The digital tachometer provides fast and accurate contact and non contact RPM and surface speed measurements of rotating objects.

- Wide measurements range and high resolution
- High visible digital LCD and backlight display
- 40 readings memories: 10selectable MAX, 10 selectable MIN, 10 selectable AVG, 10 selectable DATA measurements
- Laser sighting
- Specifications :
  - Display: 5 digits LCD display
  - Accuracy: +/-0.05%
  - Contact test range: 2 to 20000RPM
  - Non contact test range: 1 to 99999RPM
  - Detecting distance: 50mm to 500mm
  - Battery: 9V

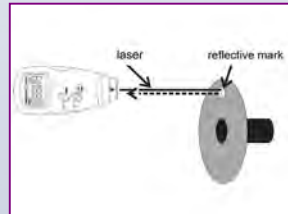


HU8000

## NON CONTACT TACHOMETER



- measures RPM from 1 to 99999
- Kit includes reflective tape to affix to the rotating element to measure
- Wide measuring range and high resolution
- Yellow green backlight makes sure that tachometer can work normally in any light circumstance
- Memory call feature
- Can be connected 6V direct current stable voltage power in favor of using for long time
- Low battery voltage indication



HU8001

## CONTACT AND NON CONTACT TACHOMETER



- Combine Photo (non contact) tachometer (RPM) & contact TACH (RPM, m/min) -> easily detachable shaft
- Measures RPM from 1 to 99999 (non contact) and 0,5 to 19999 (contact) and measures m/min from 0,05 to 1999,9
- Kit includes reflective tape to affix to the rotating element to measure + contact adapters (3 different RPM adapters + surface speed wheel for m/min)
- Wide measuring range and high resolution
- Yellow green backlight makes sure that tachometer can work normally in any light circumstance
- Memory call feature
- Can be connected 6V direct current stable voltage power in favor of using for long time
- Low battery voltage indication
- New surface speed sensor with flute vials to measure speed and length of wire, cable and rope conveniently



## SPECIALITY TOOLS



ENGINE .....	124
BRAKES AND WHEELS .....	141
TRANSMISSION .....	153
BODY .....	157
GENERAL TOOLS .....	168
FLUID EXTRACTORS .....	180

AB71123

## STUD REMOVER &amp; INSTALLER KIT



- Unique design allows the removal and installation of studs without damaging the threads
- Suits all popular metric automotive studs
- Each stud size has one tool for removal and one tool for installation
- Removal tool does not damage threads
- Installation tool allows tightening and torque without thread damage

**Kit includes:**

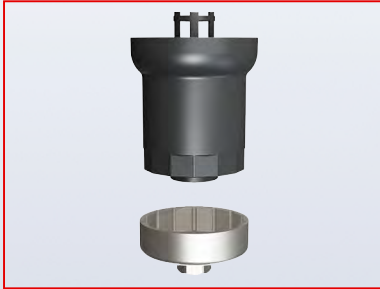
- M6x1.0
- M8x1.25
- M10x1.25
- M10x1.5 studs





## V.A.G OIL FILTER SET

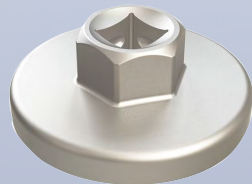
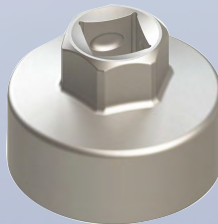
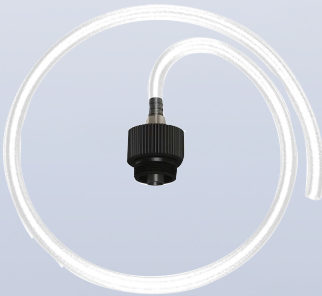
AB71185



- Heavy duty design : manufactured from heat treated chrome Vanadium steel
- Will not slip and damage nylon oil filter housings
- Will not fail under heavy torque loads required to remove nylon oil filter housings
- Drain plug tool is used to easily remove and install oil filter drain plug without damaging it
- Drain hose is used to drain oil from filter housing prior to removal. It prevents oil spills and reduces service time

### Set features:

- AB71181 : 74mm across flats/ 1/2" square drive / 24mm Hex VW oil filter tool that suits all VW models 2007 onwards with 2.5L Diesel Engine
- AB71182 : 36.4mm across flats/ 1/2" square drive / 24mm Hex VW/Audi oil filter tool that suits all VW/Audi models 2005 onwards with 2.0L Diesel Engine
- AB71183 : VW/Audi Oil Filter Drain Hose that was manufactured from light weight high strength composite materials and suits all VW/Audi models 2005 onwards with 2.0L and 2.5L Diesel Engine
- AB71184 : 3/8" square drive / 17mm Hex VW/Audi Hex oil filter drain plug tool for all VW/Audi models 2005 onwards with 2.0L and 2.5L Diesel Engine



AB71180

## TOYOTA OIL FILTER WRENCH AND DRAINER



- One tool suits all 4, 6 and 8 cylinder Toyota and Lexus vehicles
- Manufactured from chrome vanadium with mirror polish finish
- 1/2" square drive and 24mm hex
- Extra heavy duty to withstand high torque required to remove the oil filter housings on these vehicles
- Recommended Tension for Toyota filter housings is 25Nm however, if the housings are over tensioned the force required to remove can exceed 10 times this - This tool has been tested to breaking in excess of 400 Nm





## UNIVERSAL TIMING GEAR HOLDER

AB70906



- Used to hold the gear while the cam shaft bolt is removed
- Allows adjustment of cam gear once installation is complete
- Slimline design allows maximum access
- Single lever design is quick and easy to use
- Provides breaker bar strength for maximum holding force





AB70906B

## UNIVERSAL TIMING GEAR HOLDER (NYLON)



- Constructed from super strong fibre reinforced polymer
- Used to hold the gear while the cam shaft bolt is removed
- Allows adjustment of cam gear once installation is complete
- Slimline design allows maximum access
- Single lever design is quick and easy to use
- Provides breaker bar strength for maximum holding force



AB70908B

## UNIVERSAL TIMING GEAR HOLDER KIT (NYLON)



- Complete timing belt service kit
- Kit contents:**
- AB70906B Timing gear holder (Nylon)
  - AB70898 CamClamp Singles (4 pc)



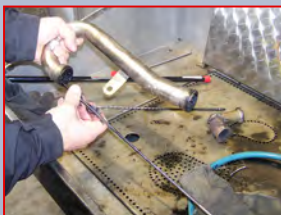


## FLEXIBLE DRILL BIT EGR CLEANER SET (3pcs)

HU41035



- Designed to cut through rock hard carbon deposits in the EGR passage without removing the intake manifold
- The shaft is made of tough spring steel that provides unbelievable flexibility
- The set includes 3 sizes (lengths), all with 5mm diameter.:
  - 230mm
  - 300mm
  - 540mm

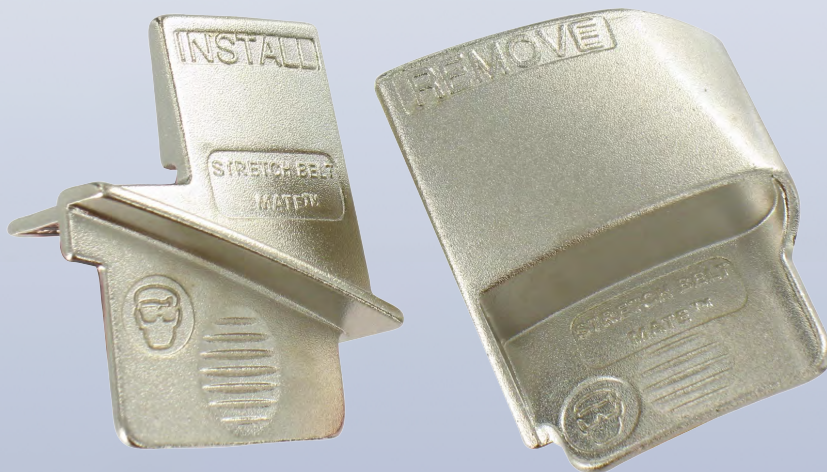




AB70990

## STRETCH BELT MATE™ KIT

- Stretch Belt Mate™ is the stretch belt tool that requires the least 'man handling' from the technician on the market
- Universal Stretch Fit Belt installation and removal tool set
- 2 pcs: 1 removal tool / 1 installation tool
- No adjustment needed



**STRETCH BELT MATE™ KIT (NYLON GLAS )****AB70993**

- Made of nylon reinforced with glass fiber
- Stretch Belt Mate™ is the stretch belt tool that requires the least 'man handling' from the technician on the market
- Universal Stretch Fit Belt installation and removal tool set
- 2 pcs: 1 removal tool / 1 installation tool
- No adjustment needed



AB70961

## CAMSHAFT & CRANKSHAFT SEAL TOOL KIT (NYLON)

- Constructed from super strong fibre reinforced polymer
- Universal tool suits all vehicles
- 7 installation mandrels suit 21.5mm through 64mm seals
- Removal : compact puller with unique extracting hooks engage seal for quick removal (2 pairs of hooks)
- Installation : interchangeable "seal mandrels", use vehicle crank or cam bolt to evenly press seal into position





## POWER BAR HAND IMPACT WRENCH FOR CARS (1/2")

AB70866



- Reduces service time on vehicle with limited crankshaft bolt access
- Ideal for Honda crankshaft bolt removal
- Generates up to 600 ft. lbs. of force which exceeds most 1/2" impact guns
- Bi-directional force loosens or tightens bolts
- Saves repair time – no need to remove parts to access the crankshaft bolt or harmonic balancer pulley

### Use where impact guns won't fit

- Impact force 'shocks' bolts loose
- No compressed air required for operation
- Use with impact sockets

### Specifications :

- Length: 550mm
- 1/2" square drive



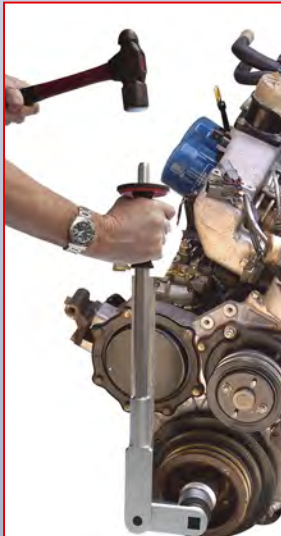
AB70867

## POWER BAR HAND IMPACT WRENCH FOR TRUCKS (3/4")

- Heavy duty 3/4" drive
- Provides high impact force for breaking loose fasteners used in many industrial applications
- Ideal for use in onsite heavy equipment service and repair
- No compressed air required
- Bi-directional for loosening or tensioning fasteners

### Specifications :

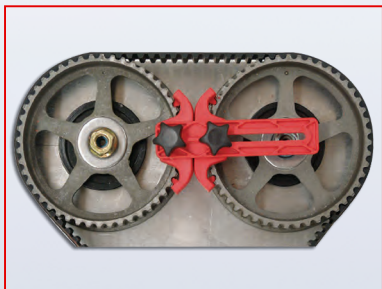
- Length: 580mm
- 3/4" square drive



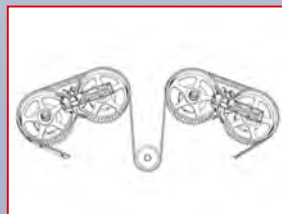
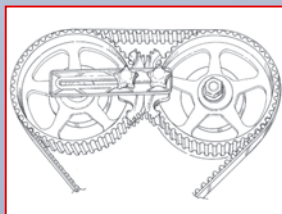


## UNIVERSAL TIMING GEAR CLAMP FOR DUAL CAM ENGINES

AB70896



- Holds valve timing on overhead cam engines during timing belt service
- Suits timing gear diameters from 101 to 152mm
- Suits gear spacing from 1.6 to 76mm
- Patented 'Uni-fit' tooth design suits a large range of cam gear sizes
- Patented friction locking system allows infinite locking positions to suit most cam gear configurations





AB70900

## UNIVERSAL TIMING GEAR CLAMP MASTER SET

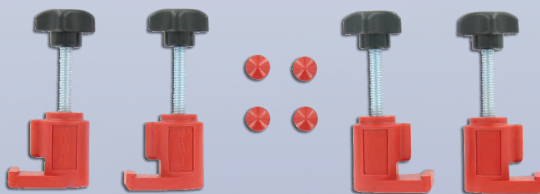


- Holds valve timing on overhead cam engines during timing belt service
- Includes 1 dual CamClamp and 4 single CamClamp
- Use on single, dual or quad cam engines
- Singles ideal for Diesel injection pump belt replacement
- AB70899: four single cam clamps set available separately

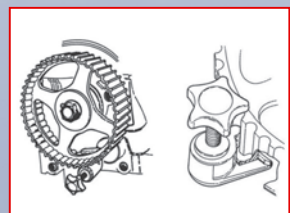


AB70899

## UNIVERSAL TIMING GEAR CLAMP SET



- Holds valve timing on overhead cam engines during timing belt service
- Includes 4 single CamClamps
- Patented 'Uni-fit' tooth design suits a large range of varying cam gear sizes
- Ideal for Diesel injection pump belt replacement

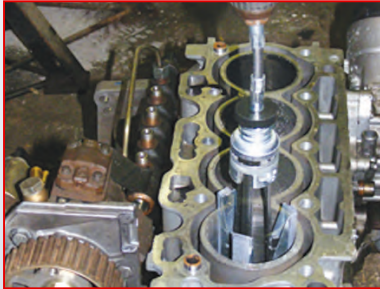




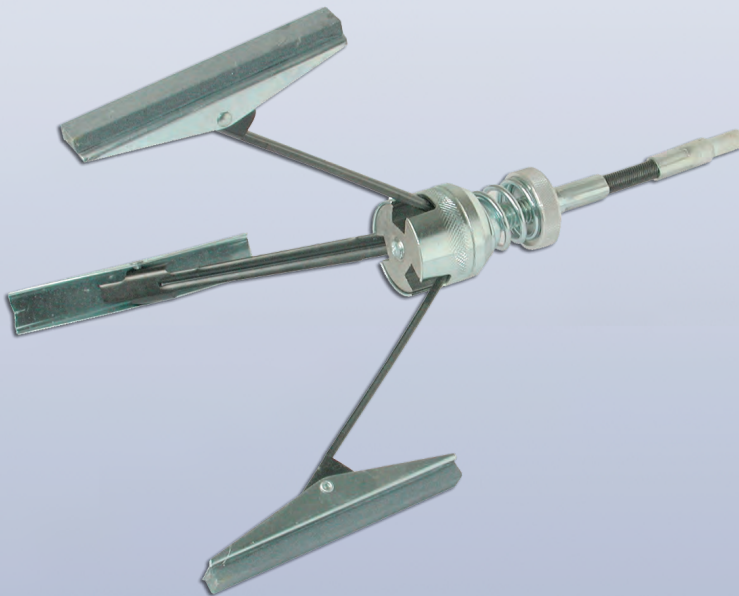
# ENGINE

## ENGINE CYLINDER HONE

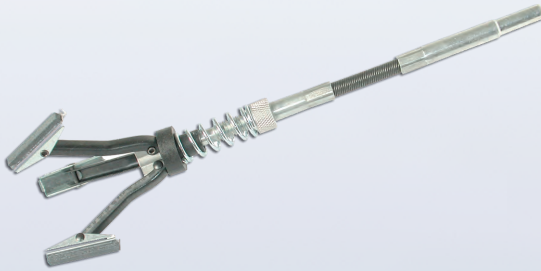
**AB70136**



- Range: 51mm to 178mm
- Stones fitted: 102mm medium 220 grit
- Replacement stones available:
  - AB70133 (100 grit)
  - AB70134 (220 grit)
  - AB70135 (400 grit)

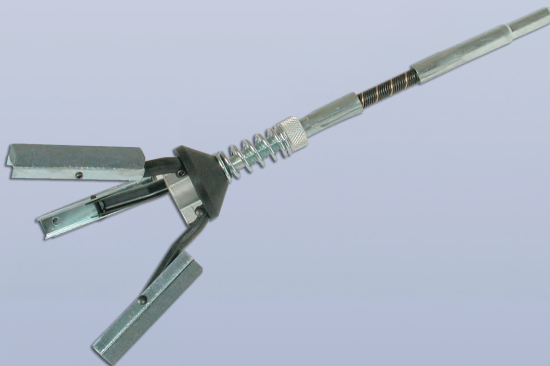


AB70141

**BRAKE CYLINDER HONE**

- Range: 19mm to 64mm
- Stones fitted: 28mm medium 220 grit
- Replacement stones available:
  - AB70139 (220 grit)
  - AB70140 (400 grit)

AB70152

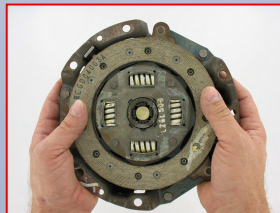
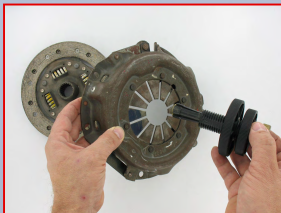
**SMALL ENGINE CYLINDER HONE**

- Range: 32mm to 89mm
- Stones fitted: 51mm medium 220 grit
- Replacement stones available:
  - AB70150 (220 grit)
  - AB70151 (400 grit)

## UNIVERSAL CLUTCH ALIGNING TOOL

AB70058

- Its unique design aligns and assembles clutch on the workbench for easy installation
- Suits most vehicles with single plate clutches



HU395401

## FLEXIBLE HOSE CLAMP



- Flexible cable (L.630mm) allows access to hard to reach clamps
- Multi-stop ratchet system
- For a diameter from 18 to 53mm





## UNIVERSAL POWER STEERING VACUUM BLEEDING ADAPTER

MI660

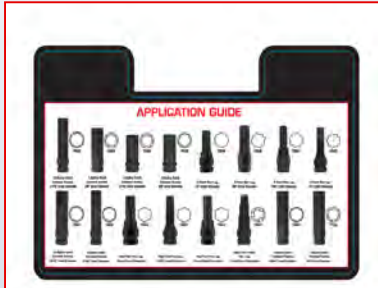


- Designed to assist in purging air out of the Power Steering system
- Allows hook up to your vacuum bleeder or fluid evacuator by using the adapter in place of the OE cap during the purge process
- Quietens power steering pumps by removing air out of the system
- To be used with a Mityvac pump

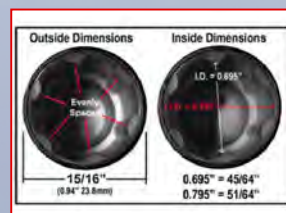


HU42021

## 16 PIECE LOCKING LUG MASTER KEY SET



- Dual head design fits most factory lug wrenches
- Available with an impact resistant carrying case
- Cold forged, heat treated, hardened steel construction
- Includes all the tuner keys needed to fit most symmetrical splined lug nuts and bolts
- Easily & safely removes your tuner lug nuts
- Thin wall design matches your wheel lock diameter to prevent scratching your wheels
- Kit includes:
  - 8-point star lug, 7/16" outer diameter (Ø)
  - 6-spline small Ø socket, 41/64" inner Ø
  - 5-spline small Ø socket, 5/8" inner Ø
  - 8-point star lug, 5/8" outer Ø
  - 9-point socket style tuner lug nuts
  - High tech fluted hex lug, 12mm outer dimension
  - 10-point star lug, 1/2" outer Ø
  - High tech hex lug, 12mm outer dimension
  - 12-spline small Ø socket, 11/16" inner Ø
  - 7-spline small Ø socket, 5/8" inner Ø
  - 12-spline small Ø socket, 13/16" inner Ø
  - 7-spline small Ø socket, 11/16" inner Ø
  - 7-spline small Ø duplex socket, 3/4" inner Ø
  - High tech hex lug, 9/16" outer dimension
  - High tech hex lug, 15mm outer dimension
  - 6-spline small Ø socket, 45/64" inner Ø





HU43012

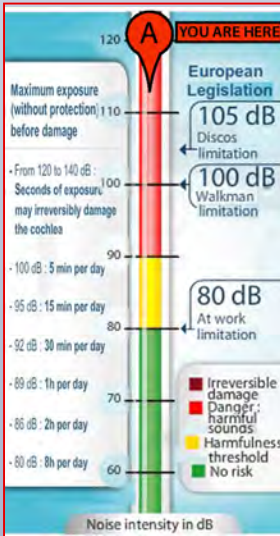
## DOSIL - SILENT TIRE DEFLATOR

- Equipped with a filter cartridge that reduces the noise from 115db to 85db!
- Its retractable screwdriver allows the technician to dismount easily and with one hand only the tire valve
- Avoids the ejection of the valve during its dismounting
- Does not increase deflating time
- Not only protects the technician who uses it but also all the people around
- Deflating operation by unscrewing the tire valves (Car, Truck, bus) exposes technicians to noises that can lead to deafness. The Silent Tire Deflator patented by INRS allows to reduce noises emissions during tire deflation.
- The risk of the noise : Remember a deflating tire reach easily 115db! And above 115 dB , very brief sounds immediately cause irreversible damage.  
Up to 80-85 decibels, the cells (and our auditory sensation) do not suffer. Above this level, there are hairs which are gradually destroyed and then disappear totally: the cells dies and there is no longer any auditory sense: this is deafness.





HU43012







## DOUBLE IN-LINE FLARING TOOLS

HU42018



- Allows the user to simply and easily flare brake thin walled steel tubing or copper tubing
- Works with a ratchet, wrench or air wrench
- Low profile and allows the user to work in tight spaces, on or off of the vehicle
- Standard SAE and DIN flares
- For brake pipes with diameters of 4.75mm and 6mm
- Full range of die and punch sets available
- Simple to use (easier to use than the current model flare tools)
- Self centring pipe location



HU42020

## DEBURRING TOOL



An essential tool for ensuring brake pipe are deburred effectively.

- Internal/external deburring tool
- Size range internal 3-12mm external 4-14mm
- Suitable for copper/brass /steel plastics
- Ideal for brake pipes
- Time saver



INSIDE



OUTSIDE



BEFORE

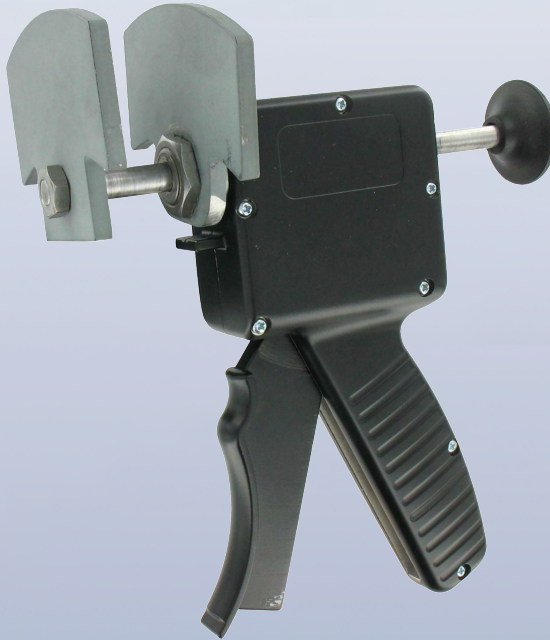
AFTER



## UNIVERSAL FRONT BRAKE PISTONS SPREADER

AB70915

- Universal adapter : fit single, twin or quad piston
- Prevents damage to pistons, seals or calipers (no pliers, no screwdrivers)
- Fast and easy to use
- Powerfull : generates over 215kg of force
- All pistons are refracted at the same time - no piston getting out



HU42003

## PNEUMATIC BRAKE CALIPER REWIND TOOL SET (17PCS)

**Kit includes:**

- Pneumatic rewind tool for left and right hand threaded piston
- 16 adaptors for most European and Japanese cars





# BRAKES AND WHEELS

## LUG & LOCK FLIP TWIST SOCKET SET

STE2315



- Designed for the tyre and wheel industry
- 6 fluted end to remove rounded lugs and wheel locks
- Use with a small 1/2" extension



HUS202

## TREAD DEPTH GAUGE



- Allows to check tyre wear, brake shoe...
- From 0 to 25mm
- Resolution: 0.01mm
- LCD display
- Zero setting at any position
- Quick and efficient reading
- Metric/inch system interchange



HUS210

## DIGITAL BRAKE GAUGE



- From 0 to 100mm
- Resolution: 0.01mm
- LCD display
- Zero setting at any position
- Quick and precise reading
- Metric/inch system interchange

# BRAKES AND WHEELS

## METAL DIGITAL CALIPER TOOL

**HUS309A**



- From 0 to 150mm
- Resolution: 0.01mm
- LCD display 12mm high
- Zero setting at any position
- Metric/inch system interchange

## TYRE PRESSURE GAUGE

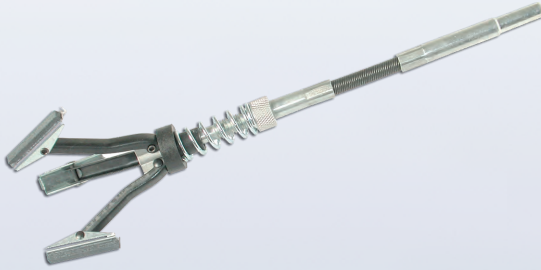
**HUTP5**



- White LED light in the unit tip helps you find the tyre valve easily
- Much easier to use than conventional air gauges (only one pushbutton)
- Measures tyre pressures of 0 to 6 Bar
- LCD display
- Memorizes the maximum pressure value
- Different units (PSI, Kpa, Bar)
- Range: 0.4 - 6.80 Bar
- Accuracy: +/- 1%

AB70141

## BRAKE CYLINDER HONE



- Range: 19mm to 64mm
- Stones fitted: 28mm medium 220 grit
- Replacement stones available:
  - AB70139 (220 grit)
  - AB70140 (400 grit)



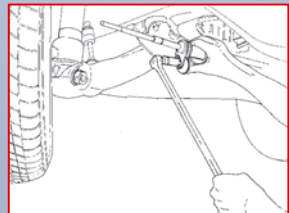
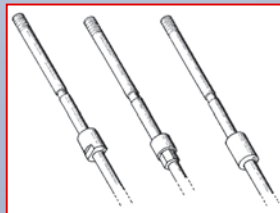
# TRANSMISSION

## STEERING RACK END WRENCH

AB70897



- Use on steering racks to service inner tie rod ends
- Use directly on the vehicle
- Diameter 33 to 41mm

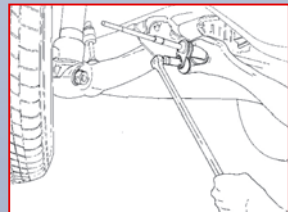
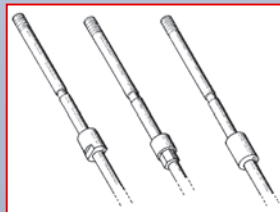


AB70950

## HEAVY DUTY WRACK WRENCH

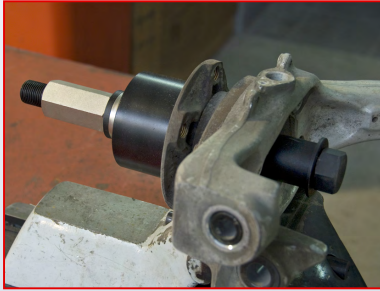


- Use on steering racks to service inner tie rod ends, directly on the vehicle
- NEW larger size to provide coverage for domestic and import light trucks and SUV's
- Diameter 38mm to 48mm



## FWD HUB BEARING SERVICE KIT

HU43004

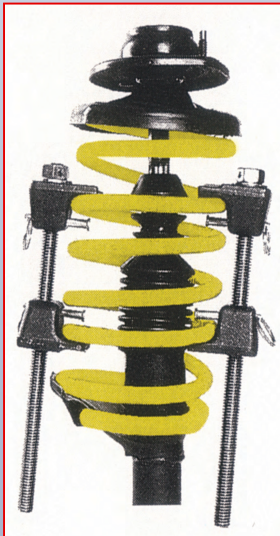


- Universal kit to service most front wheel drive bearings
- Also allows the installation of silemblocks (bushes)



**HOR905****MASTER MACPHERSON STRUT TOOL**

- ACME threaded rod
- Steel bar with ball-bearing catch latches to help lock coil in place
- Forged construction for repetitive use
- Made in USA





## CORDLESS RECHARGEABLE HOT STAPLER PLASTIC REPAIR KIT

HU14005



- Makes structurally sound repairs of damaged plastic parts
- Avoid replacing expensive parts if not needed
- Cordless
- Precision-engineered tool that helps you make solid, permanent repairs of breaks, cracks and tears in rigid or flexible plastic parts
- Ideal for automotive (bumpers, broken locator pins, door panel clips and tabs...) but also for power sports, hobby and industrial applications
- Makes strong and flexible finished repair

### Features :

- An adjustable head for multiple angles
- LED Light
- LED charging
- Low battery indicator lights
- 240V charger included
- 3 staple types (V-Shaped 0.6mm / U-Shaped 0.6mm / U-Shaped 0.8mm), 100pcs/bag



HU14009

## CORDED HOT STAPLER PLASTIC REPAIR KIT



- Makes structurally sound repairs of damaged plastic parts
- Avoid replacing expensive parts if not needed
- Power source : AC 220-240V / Power consumption: 220-240V, 50/60Hz., 12.6W
- Precision-engineered tool that helps you make solid, permanent repairs of breaks, cracks and tears in rigid or flexible plastic parts
- Ideal for automotive (bumpers, broken locator pins, door panel clips and tabs...) but also for power sports, hobby and industrial applications
- Makes strong and flexible finished repair
- Features 3 staple types (V-Shaped 0.6mm / U-Shaped 0.6mm / U-Shaped 0.8mm), 100pcs/bag



# BODY

## STAPLE 0.6MM - V SHAPED FOR HU14005

HU14005-2

- Included in HU14005 kit (1 bag of 100 pcs)



## STAPLE 0.8MM - V SHAPED FOR HU14005

HU14005-3

- Available separately (bag of 100 pcs)



## STAPLE 0.6MM - U SHAPED FOR HU14005

HU14005-4

- Included in HU14005 kit (1 bag of 100 pcs)



HU14005-5

## STAPLE 0.8MM - U SHAPED FOR HU14005

- Included in HU14005 kit (1 bag of 100 pcs)



HU14005-6

## STAPLE 0.6MM - L SHAPED FOR HU14005

- Available separately (bag of 100 pcs)



HU14005-7

## STAPLE 0.8MM - L SHAPED FOR HU14005

- Available separately (bag of 100 pcs)





# BODY

## STAPLE 0.6MM - W SHAPED FOR HU14005

HU14005-8

- Available separately (bag of 100 pcs)



## STAPLE 0.8MM - W SHAPED FOR HU14005

HU14005-9

- Available separately (bag of 100 pcs)



## HEATING REPAIR PIN SET

HU14005-10



- To be used with HU14005 cordless rechargeable hot stapler plastic repair kit

**Kit includes:**

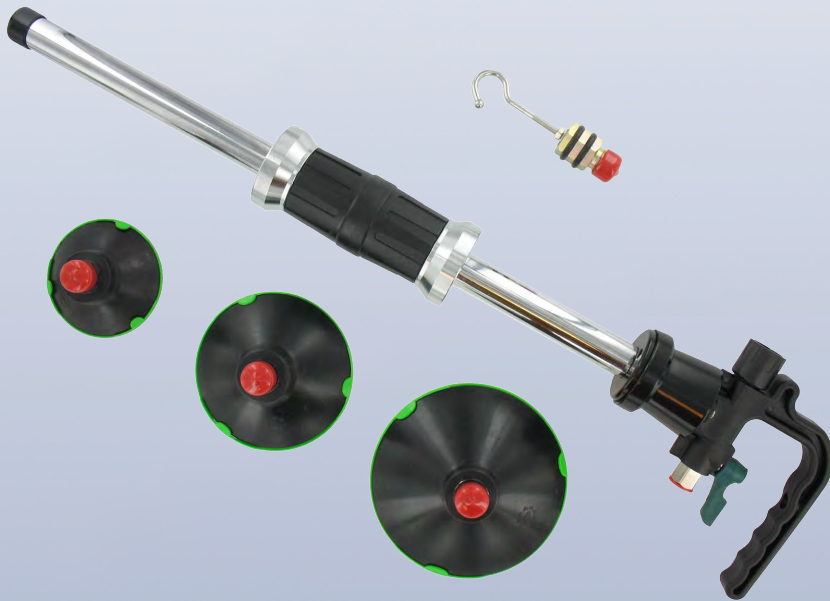
- staple 0.6mm - V shaped (100 pcs)
- staple 0.8mm - V shaped (100 pcs)
- staple 0.6mm - U shaped (100 pcs)
- staple 0.8mm - U shaped (100 pcs)
- staple 0.6mm - L shaped (100 pcs)
- staple 0.8mm - L shaped (100 pcs)
- staple 0.6mm - W shaped (100 pcs)

HU44016

## AIR VACUUM DENT PULLER



- Sliding hammer to ease dent without damaging the paint surface
- Comes with 3 suction pads (75mm / 100mm / 125mm) and one hook
- Weight : 4,7kg
- Material : Steel & plastic
- Sliding hammer : 1,22kg
- Air inlet : ¼"



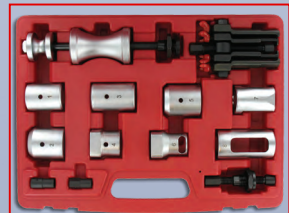
## UNIVERSAL WINDSCREEN WIPER ARM PULLER SET

HU44001



Contains many accessories (including a universal puller) that will assist with the removal of wiper arms that are:

- Rusted or deep-set on the drive-shaft
- With integrated screen-wash nozzle such as VW, Audi, BMW
- Stuck for other reasons

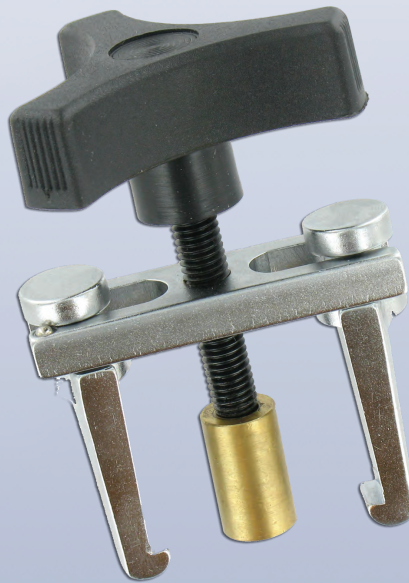


HU44002

## UNIVERSAL WIPER ARM PULLER



- Adjustable, compact and very easy to use : prevents damaging wiper arm
- Special crosspiece for wiper featuring a screen-wash nozzle





## HVAC ULTRASONIC LEAK DETECTOR 2 IN 1

HU33003



- High sensitivity and quality
- Ideal for A/C leaks
- Other applications: inspect and check vacuum and compressed air leaks (compressed air/gas installation ...), electrical systems (insulation breakdown, arcing, relays,...), LPG system, tire leaks, tightness of passenger compartment...
- Rotating volume switch
- Ultra visible LED bar



HU14001

## ULTRASONIC LEAK DETECTOR



**Quickly find air and water leaks within the vehicle.**

- Transmitter gives out a specific frequency of ultrasonic sound waves that do not travel through glass or metal
- Easy to use (no driving required)
- Audible and visual indication of leak
- Set includes a transmitter and a receiver and improved headphones
- Works on 9V batteries



## COATING THICKNESS TESTER

HU14002



- Dual technology features an automatic selection of magnetic induction or Eddy current measurement techniques
- Ideal for :
  - non-magnetic coatings(e.g. paint, zinc) on steel
  - insulating coatings (e.g. paint) on no-ferrous metals
  - no-ferrous metals coatings on insulating substrates
- Two measuring modes: CONTINUE and SINGLE mode
- Two working modes: DIRECT and GROUP mode
- Statistic display: AVG, MAX, MIN, NO., S.DEV
- One point calibrating, two points calibrating and basic calibrating easily
- Memory for 400 readings(80 DIRECT and 320 GROUP readings)
- Delete single readings and all group readings easily
- High alarm and Low alarm for all working mode
- Low battery, error indication
- USB interface for PC software(windows 98/2000/xp/vista)
- Sensor probe F N
- Measuring range 0~1250um 0~1250um
- Guaranteed tolerance (of reading) (+/- 3%+1)um (+/- 3%+1.5)um
- Low range Precision 0.1um
- Minimum curvature radius 1.5mm
- Diameter of Minimum area 7mm
- Basic critical thickness 0.5mm - 0.3mm
- Kit includes two "AAA" batteries, USB cable, CD, calibration iron, calibration aluminum, precision standard, carrying case



LJ10100

## AUTOMATIC LOCKING PLIERS 10"



- A true revolution in tool design
- Jaws **AUTOMATICALLY** adjust to any size; easy one-handed use
- Set & forget clamp pressure : dial in clamp pressure from Light to Extreme and forget about it (until you need a different clamping pressure)
- Easy release lever twice as quick than traditional locking pliers
- Length: 254mm (10")



**NO  
NO KNOB  
NO HASSLE**





# GENERAL TOOLS

## AUTOMATIC LOCKING PLIERS 6"



LJ06100

- A true revolution in tool design
- Jaws AUTOMATICALLY adjust to any size; easy one-handed use
- Set & forget clamp pressure : dial in clamp pressure from Light to Extreme and forget about it (until you need a different clamping pressure)
- Easy release lever twice as quick than traditional locking pliers
- Length: 152mm (6")



## AUTOMATIC LOCKING PLIERS WITH NEEDLE NOSE 7"







LJ09300

- A true revolution in tool design
- Jaws AUTOMATICALLY adjust to any size; easy one-handed use
- Set & forget clamp pressure : dial in clamp pressure from Light to Extreme and forget about it (until you need a different clamping pressure)
- Easy release lever twice as quick than traditional locking pliers
- Length: 178mm (7")

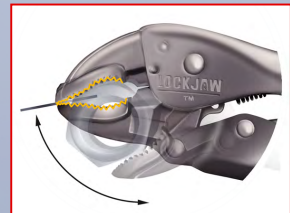
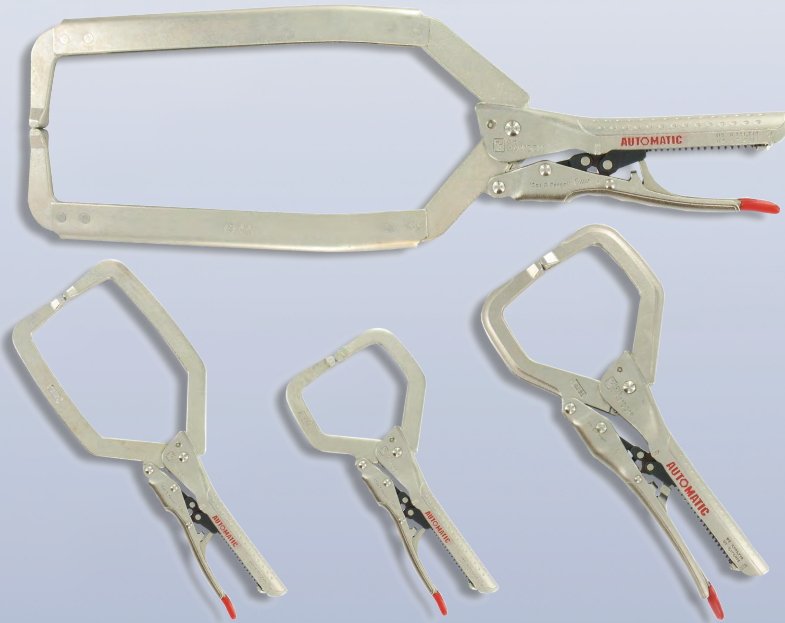


## LJ C-clamp series

## AUTOMATIC LOCKING PLIERS, C-CLAMP

Item nr		Length	Description
LJ06200		178mm 7"	small body
LJ06206		254mm 10"	small body
LJ10200		179mm 11"	large body
LJ18200		483mm 19"	large body





- A true revolution in tool design
- Jaws AUTOMATICALLY adjust to any size; easy one-handed use
- Set & forget clamp pressure : dial in clamp pressure from Light to Extreme and forget about it (until you need a different clamping pressure)
- Easy release lever twice as quick than traditional locking pliers

**C-clamp jaws**

# GENERAL TOOLS

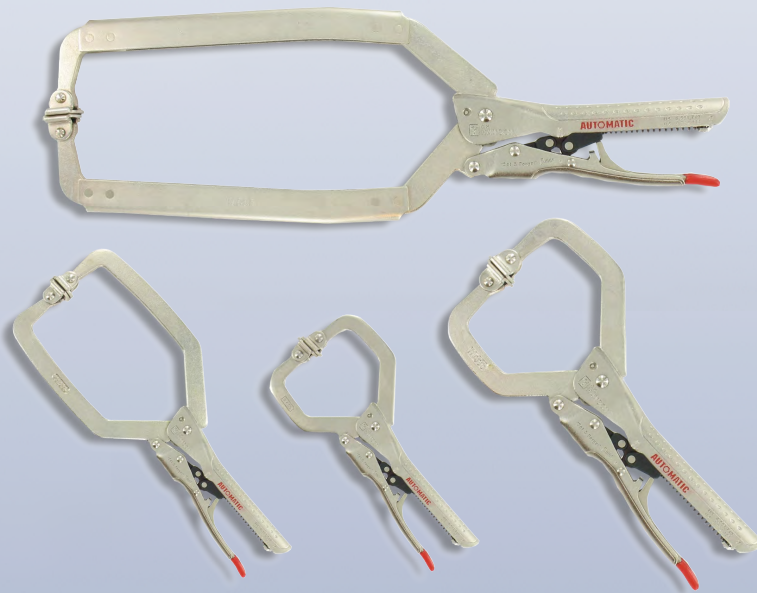
## AUTOMATIC LOCKING PLIERS, C-CLAMP SWIVEL

LJ C-clamp swivel series

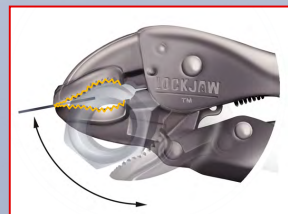
Item nr		Length	Description
LJ06201		178mm 7"	small body
LJ06207		254mm 10"	small body
LJ10201		179mm 11"	large body
LJ18201		483mm 19"	large body

- A true revolution in tool design
- Jaws **AUTOMATICALLY** adjust to any size; easy one-handed use
- Set & forget clamp pressure : dial in clamp pressure from Light to Extreme and forget about it (until you need a different clamping pressure)
- Easy release lever twice as quick than traditional locking pliers

**C-clamp swivel jaws**



**NO  
KNOB  
NO HASSLE**

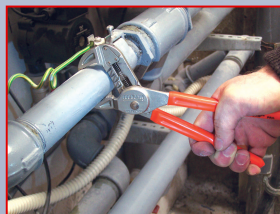


LJ30900

## AUTOMATIC GROOVE PLIER 9.5" (240mm)



- A true revolution in tool design
- The jaws self adjust to object size and AUTOMATICALLY lock => simple one-handed operation





## HOSE CARRIERS

BU371-372-376-378

- Made of very stable aluminium
- For hosepipes, compressed air hoses, wires and all other types of hoses







Item nr	Ø
BU371	290mm
BU372	510mm
BU376	400mm
BU378	600mm



## CAMEGA13R

## MEGAPRO RATCHETING 13 IN 1

- Universal and versatile
- Compact : integrated bits holder with 6 double bits
- Features patent pending ZAD 8 Zinc Alloy SOLID-CORE™ ratchet that delivers over 25.4Nm of torque strength!
- Precision 28-tooth ratchet design makes driving fasteners faster and easier
- Ergonomic grip

Item nr	Description	
CAF4F6	Slot 4.5 + 5.5	
CAF6T30	Slot 6.5 + Torx 30	
CAP1P2	Philips 1 + 2	
CAPZ1PZ2	Pozidriv 1 + 2	
CAPZ3P3	Pozidriv 3 + Philips 3	
CAT20T25	Torx 20 + 25	



# GENERAL TOOLS

## MEGAPRO 15 IN 1 SCREWDRIVER

CAMEGA15A



- Universal and versatile
- Compact : integrated bits holder with 7 double bits
- Fits in any trouser or jacket pocket

Item nr	Description	
CAF4F6	Slot 4.5 + 5.5	
CAP0P3	Philips 0 + 3	
CAP1P2	Philips 1 + 2	
CAPZ1PZ2	Pozidriv 1 + 2	
CAT10T15	Torx 10 + 15	
CAT20T25	Torx 20 + 25	
CAT27T30	Torx 27 + 30	



AB70552

## PROFESSIONAL IMPACT DRIVER SET



- Professional quality
- Converts impact from a hammer to powerful torque for loosening screws, nuts and bolts when rusted or wedged tight

HU45001

## TERMINAL TOOL SET (23PCS)



- A comprehensive terminal tool set that incorporates up to the minute products for use on standard terminals and vehicle computer connectors
- Includes special tools for coolant sensors, wiring harnesses and terminal blocks on Chrysler, Hyundai, Kia and Mitsubishi vehicles

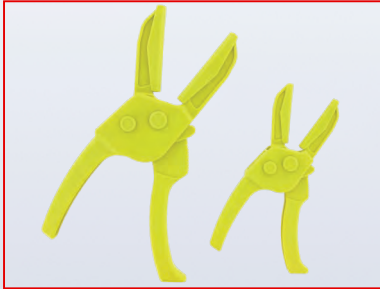




# GENERAL TOOLS

## FLEXIBLE LINE CLAMP PLIERS 'HEAVY DUTY DESIGN'

AB71130 - AB71133



- Seal off all flexible lines
- Applications : Automotive (Vacuum lines, Fuel lines, Brake lines, Heater hoses, Radiator hoses, Transmission cooler lines), Industrial (Flexible hydraulic lines, Coolant lines, Fuel lines)
- Ergonomic handle shape for comfort and maximum leverage
- Pivoting jaws to apply parallel crush for optimum sealing
- Spring loaded handles
- Automatic lock release
- Constructed from light weight super strong fibre reinforced polymer

Item nr	Spec	Description
AB71130	3mm-19mm	small
AB71133	19mm-57mm	large



AB70713

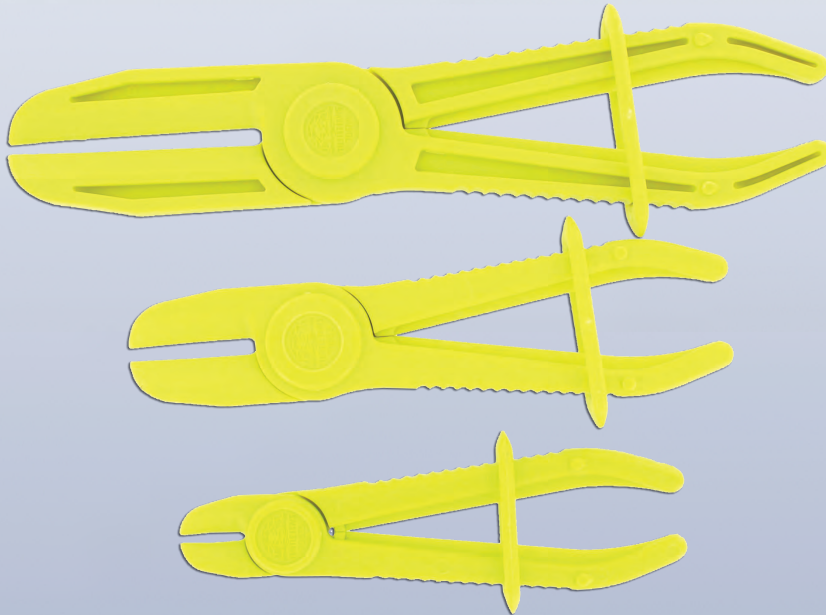
## FLEXIBLE LINE CLAMP SET (13-57mm)



- Ideal for flexible brake, fuel and coolant lines (seals heater and radiator hoses)
- Light weight, non conductive highly visible material
- Quick and easy to use

**Set includes:**

- AB70035: 1 small clamp for diameters < 13mm
  - AB70533: 1 medium clamp for diameters 13-19mm
  - AB70684: 1 large clamp for diameter 19-57mm
- Clamps can be sold separately.



## MOBILE PARTS WASHER WITH CLEANING BRUSH

HU51010

- The system will increase your working efficiency with its unique design
- Large filter installed
- With power switch
- 460 x 660 x 260 mm
- Voltage : 110V / 220V
- Weight : 5kg
- Capacity : 9L



AB70892

## FLUID EVACUATION UNIT (1.5L )



- Uses compressed air to generate deep vacuum to evacuate most fluid types (Engine and Differential Oil, Transmission and Brake Fluid, Coolant)
- Reduce repair times, increase productivity/ profit
- Design w/unique patented built in safety valves to prevent accidental fluid spray and spillage
- 1m suction hose w/ clear section for viewing flow
- Brake bleeder hose included
- Quick connect coupler hose for interchange
- Convenient hanging hook and quick release trigger allows hands free operation
- Float valve shuts vacuum down when container reaches full to prevent dangerous brake fluid spray if capacity is accidentally exceeded
- Internal shut off valve closes when not in use to prevent fluid spills when stored







## 3 IN 1 MITYVAC FLUID DISPENSER (5L)

MI6403



### 1. Levelling of all kind of fluid

Dispenses fluids to fill or top-off master cylinders, coolant bottles, automatic transmissions, differentials, power steering and other reservoirs.

### 2. Sealed automatic transmissions

- Used to dispense fluid to top-off or refill sealed automatic transmissions
- Includes 10 specific adaptors

### 3. Brake bleeding (clutch)

Delivered with the master cylinder adaptor.

#### Features:

- Large 5 liter fluid capacity
- Fluid under pressure for smooth continual flow
- Integrated manual pump adds air above the fluid level to prevent aeration
- Sealed internal pump components
- On/Off and flow control valve are conveniently located near fluid output
- Gauge indicates fluid dispensing pressure
- Integrated safety and manual pressure relief valve
- Kit includes:
  - Mityvac fluid dispensing system (MI6400)
  - ATF refill adapter kit (MI5800)
  - universal master cylinder adapter (MI00804)



MI6413

## 3 IN 1 MITYVAC FLUID DISPENSER (10L)

1. Levelling of all kind of fluid
2. Sealed automatic transmissions
3. Brake bleeding (clutch)

### Features:

- Large 10 liter fluid capacity
- Fluid under pressure for smooth continual flow
- Integrated manual pump adds air above the fluid level to prevent aeration
- Sealed internal pump components
- On/Off and flow control valve are conveniently located near fluid output
- Gauge indicates fluid dispensing pressure
- Integrated safety and manual pressure relief valve
- Kit includes:
  - Mityvac fluid dispensing system
  - ATF refill adapter kit
  - universal master cylinder adapter



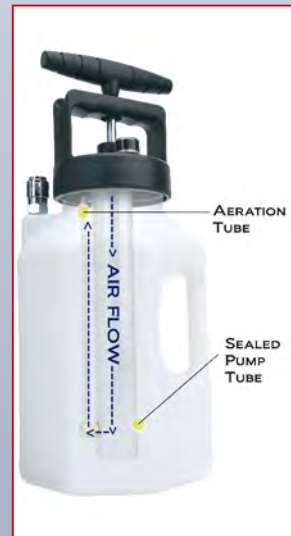
# FLUID EXTRACTORS

## MITYVAC FLUID DISPENSING SYSTEM

MI6400

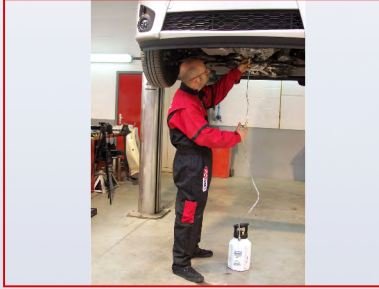


- Large 5 liters fluid capacity
- Fluid is dispensed under pressure for smooth continual flow
- Integrated manual pump adds air above the fluid level to prevent aeration
- Internal pump components are sealed against exposure to fluids
- On/Off and flow control valve are conveniently located near fluid output
- Pressure gauge indicates fluid dispensing pressure
- Integrated safety and manual pressure relief valve
- Kit includes:
  - 5 liters fluid reservoir
  - reservoir lid w/integrated manual pump, pressure gauge and pressure relief valve
  - fluid dispensing hose w/flow control and auto-shutoff valves
  - fluid dispensing wand
  - hanging hook
  - user's manual



MI6410

## MITYVAC AUTOMATIC TRANSMISSION REFILL SYSTEM (5L)



- Used to dispense fluid to top-off or refill sealed automatic transmissions
- Includes 10 specific adapters
- Large 5 liters fluid capacity
- Fluid is dispensed under pressure for smooth continual flow
- Kit includes:
  - Mityvac fluid dispensing system (MI6400)
  - ATF refill adapter kit (MI5800)





# FLUID EXTRACTORS

## MITYVAC AUTOMATIC TRANSMISSION REFILL SYSTEM (10L)

MI6412

- Used to dispense fluid to top-off or refill sealed automatic transmissions
- Includes 10 specific adapters
- Large 10 liters fluid capacity
- Fluid is dispensed under pressure for smooth continual flow
- Kit includes:
  - Mityvac fluid dispensing system (MI6400)
  - ATF refill adapter kit (MI5800)



MI576 - MI572 - MI573

## SPARE CONTAINERS

- Fluid under pressure for smooth continual flow
- Integrated manual pump adds air above the fluid level to prevent aeration
- Sealed internal pump components
- Gauge indicates fluid dispensing pressure
- Integrated safety and manual pressure relief valve

Item nr	Description
MI572	10L
MI573	20L
MI576	5L



# FLUID EXTRACTORS

## UNIVERSAL MASTER CYLINDER ADAPTER

MI00804



- Quick-connect coupler system
- For pressure brake bleeding
- To be used only with Mityvac kits (MI6844, MI6400, MI6410, MI6403)

## AUTOMATIC TRANSMISSION REFILLING KIT

MI5800



- Adapters designed for refilling or topping-off most manufacturers' sealed automatic transmissions when the fluid level is low or following a filter change (when no transmission dipstick tube)
- Includes 10 adapters fitting Ford, Toyota, BMW, Honda, Nissan, VW, Audi and Mercedes transmissions
- Adapters all have quick-connect coupler system

HU46005

## FUEL EXTRACTOR

- To retrieve fuel following a filling error (gasoline instead of diesel, etc.), remove a submerged fuel pump, change or check the fuel gauge, rinse the fuel tank, during body work, etc.
- Operates off workshop compressed air (no risk of sparks)
- Mobile 45-litre tank (on wheels)
- Cleanly draws up or pushes out fuel thanks to a venturi system
- 2 anti-static ground cables, overflow line and 3 fuel probes
- Emptying via the tank filler neck or fuel lines
- Made of stainless steel





# FLUID EXTRACTORS

## ADAPTORS FOR HU46005 FUEL EXTRACTOR

**HU46010**



Allow to plug the fuel extractor (HU46005) in line just before the injection pump (on almost every line or filter) for a completely safe emptying.

## FLUID TRANSFER PUMP

**MI7240**



Quick and easy method to transfer or syphon all types of fluids including fuel, oil, transmission fluid, water, etc.



HU46008

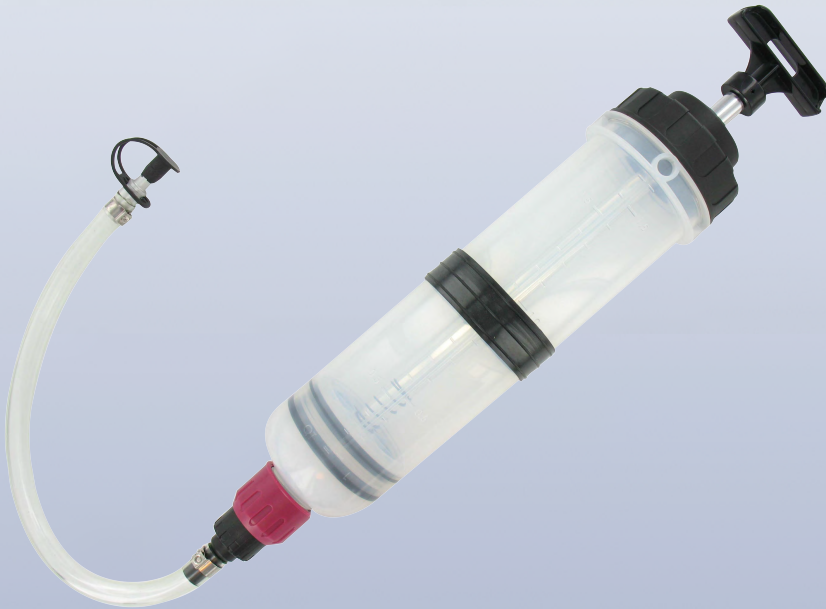
## THE CLEAN SYRINGE FOR VEHICLE OIL CHANGE (XL/1.5L)



- Transparent design to visualise the fluid
- Suitable for fluid suction and supply in vehicle service

**Designed for transmission fluid, engine oil and gear oil**

- Features cap to avoid dripping
- Rotative switch off
- CAPACITY : 0,9kg / 1,5L capacity



# FLUID EXTRACTORS

## THE CLEAN SYRINGE FOR VEHICLE FLUID CHANGE (200cc)

HU46009



- Transparent design to visualise the fluid
- Suitable for fluid suction and supply in vehicle service

### Designed for brake fluids and antifreeze

- Features cap to avoid dripping
- Quick disconnect tube
- 0,294kg / 200cc capacity



MI7201

## MITYVAC MANUAL VACUUM AND PRESSURE FLUID EVACUATOR

- Extracts and dispenses a wide-range of fluid types including engine oil, brake fluid, gear oil, coolant...
- Reservoir capacity: 8.8 litres
- Includes 3 semi-rigid probes with various diameters





# COMMON RAIL



INJECTORS .....	195
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## INFO

## How to face Common Rail engine maintenance?

Classical Diesel engines are dead, long live the Common Rail!

For the last 15 years, new Diesel cars have been driven by Common rail system which is a modern variant of direct fuel injection system for petrol and diesel engines.

On diesel engines, it features a high-pressure (over 1,000 bar/15,000 psi) fuel rail feeding individual solenoid valves, as opposed to low-pressure fuel pump feeding unit injectors. Third-generation common rail diesels now features piezoelectric injectors for increased precision, with fuel pressures up to 1,800 bar/26,000 psi.

The downside is that this type of injection system causes a lot of corrosion and that engines must regularly be maintained and cleaned.

Hubitools has developed a large range of Common Rail speciality tools that are specially designed to pull injectors, clean the seats, extract seals, clean injector holes and perform all these maintenance operations that will help your customers keep their engine humming.

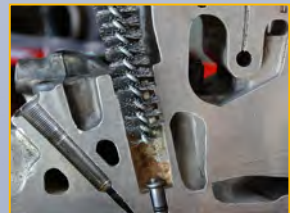


# INJECTORS

## UNIVERSAL INJECTOR SEAT CLEANING SET

HU41039

- Kit includes :
  - 2 metal brushes  $\varnothing$  20mm and 25mm for injector hole cleaning
  - 2 front brushes for injector seat cleaning
  - 1 front brush extension
  - 2 seal plugs to close the injector hole while cleaning
  - 1 seal plug holder to place and remove the plug
  - a sanding kit (paper and paper support)
- This set will allow the technician to make a perfect job before placing the new injector!



HU41004

## UNIVERSAL INJECTOR SEAT CLEANING SET



- Use to reface the seat by eliminating the build up of carbon deposits and the effects of corrosion

**Kit includes:**

- 5 cutters SKD11 quality:
  - 15mm universal flat
  - 17mm flat for Delphi and Bosch injectors (BMW/PSA/Renault/Ford)
  - 17mm angled for Fiat/Iveco and Ford
  - 17mm\*19mm flat for Bosch injectors (Mercedes CDI)
  - 17mm\*21mm angled for Fiat/Iveco
- 1 T-handle





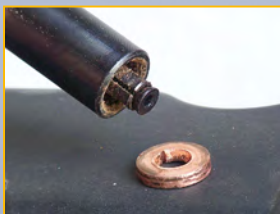


## DIESEL INJECTOR SEAL EXTRACTOR

HU41005



- Removes stuck copper injector base seals
- Adjusts easily to inner diameters from 6,40 to 9,50mm
- Adjustable depth of the expandable collet
- Usually used in conjunction with HU41004 seat cutter





HU41008

## BOSCH INJECTOR DISMANTLING TOOL 1/2"

- Suitable for removing the internal part of Bosch injector
- 10mm max Tamper Proof bit





## DIESEL INJECTOR EXTRACTOR KIT

HU41034



- Suitable for the removal of frozen Bosch/Delphi/Denso/Siemens diesel injectors
- Features a flexible joint adaptor allowing the slide hammer to be used in restricted areas
- Content:
  - M27x1.0 type: Siemens
  - M25x1.0 type: Siemens
  - M20x1.0 type: Denso
  - M16x1.0 type: Toyota 2.2
  - M14x1.5 type: BMW m47, MB W211cdi
  - M17x1.0 type: MB Bosch
  - M18x1.5 adaptor
  - special bit 10mm hex for nozzle extractor (tamper proof 6mm)
  - special bit 10mm hex for nozzle extractor (tamper proof 7mm)



HU41009

**GLOW PLUG REMOVAL SET (9PC )**

- Universal set for M8 and M10 glow plugs (VW-Audi, Mercedes, Opel, Peugeot, Renault etc.)
- Allows dismantling of broken glow plugs
- The kit includes:
  - Torx socket for electrodes removal
  - guides (2pcs) and 3.5mm straight drills (2pcs) for electrode drilling
  - 2 stage drill bit 9 X 5.5 for M10 glow plugs
  - 2 stage drill bit 7 X 5.5 for M8 glow plugs
  - drill bit support
  - 1/4" tap for puller spindle
  - M8 tap for M8 glow plug thread reface
  - M10 tap for M10 glow plug thread reface
  - ratchet tap wrench
  - puller spindle (2pcs)
  - puller with inner thread







HU35005

## MULTIVOLTAGE GLOW PLUG TESTER

The Multivoltage Glowplug Tester is the ultimate tool to test the status of diesel glow plugs.

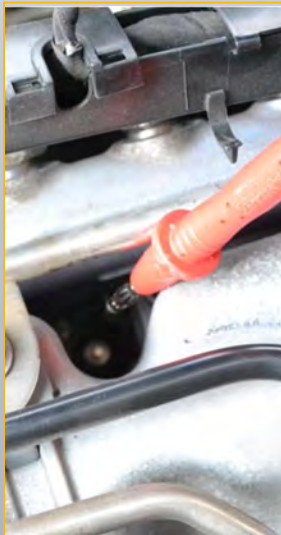
It will indicate whether there is an open circuit or a short circuit or if the glow plug is in a good state. In this last case, it will also display the actual resistance of the glow plug for the user to evaluate whether or not the glow plug is nearing an out of specification state.

- Universal: works on all type of voltage available on the market
- Easy to use
- Results are easy to read
- Shrouded high quality interchangeable leads which plug into the top of the unit
- Works on 2 AAA batteries
- Oil resistant label





HU35005



## DIESEL COMPRESSION TESTER

HU12001



- For both direct and indirect diesel injected cars
- Test through injector or glow plug

**Kit includes:**

- 6 sets (26pcs) of small profile, quick coupling tips and adaptor for speed and security
- Flexible hose (355mm) gives access to restricted plug and injector ports
- Gauge: 0-70Bar



HU12002

## DIESEL ENGINE COMPRESSION TEST ADAPTOR SET (CLAMP-ON INJECTORS)



### Use with HU12001.

- 6 clamp-on injector adaptors covering:
- car sizes
  - van sizes
  - truck and bus sizes
  - agricultural and marine injector sizes



HUDCR

## DIESEL FUEL PRESSURE METER (0 – 1500 BAR SYSTEMS)



- Used to monitor the fuel pressure on common rail injection systems, whilst the motor is operating
- The digital screen will display the actual fuel pressure in the system and the unit will also retain the maximum pressure reading in memory

### Technical Specifications:

- Operating Voltage: 12V DC
- Sense Voltage: 0 – 5V
- Pressure Measurement: 0 – 1500 Bar
- Accuracy: Sensor +/- 5%
- Sample Rate: 3 readings per second
- Error Display:  $V_{sense} < 0.5V$





HU35005

## MULTIVOLTAGE GLOW PLUG TESTER

The Multivoltage Glowplug Tester is the ultimate tool to test the status of diesel glow plugs.

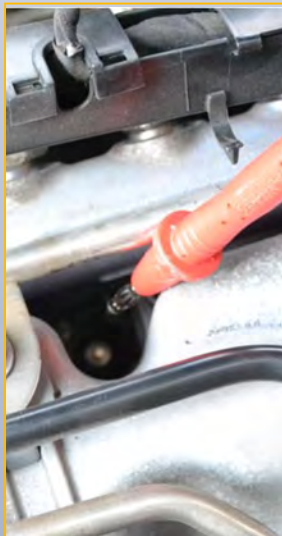
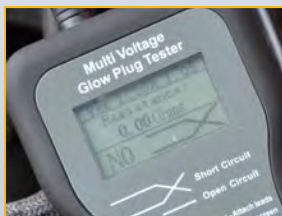
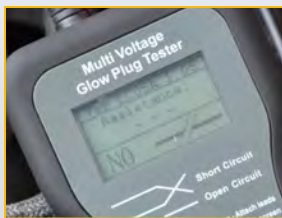
It will indicate whether there is an open circuit or a short circuit or if the glow plug is in a good state. In this last case, it will also display the actual resistance of the glow plug for the user to evaluate whether or not the glow plug is nearing an out of specification state.

- Universal: works on all type of voltage available on the market
- Easy to use
- Results are easy to read
- Shrouded high quality interchangeable leads which plug into the top of the unit
- Works on 2 AAA batteries
- Oil resistant label





HU35005





MI8550

## MITYVAC METAL HAND PUMP KIT

**Kit includes:**

- MI8510 metal hand pump; the only hand pump that can produce and measure vacuum OR pressure with equal performance and precision (-980 mBar to 4 Bar)
- Large reservoir design (480 ml) with quick connector
- Other accessories

Mityvac has significantly improved the original Mityvac hand vacuum/pressure pumps used by automotive technicians, service and maintenance professionals, engineers and scientists worldwide. The new Mityvac Silverline Elite hand pump combines 35 years of automotive diagnostic experience with advanced performance and comfort to meet the requirements of the latest automotive technologies. Featured in the new MI8550 Silverline Elite Automotive Test Kit, the pump produces vacuum along with pressure at twice its previous output to expand its vehicle service applications.

**Common Applications**

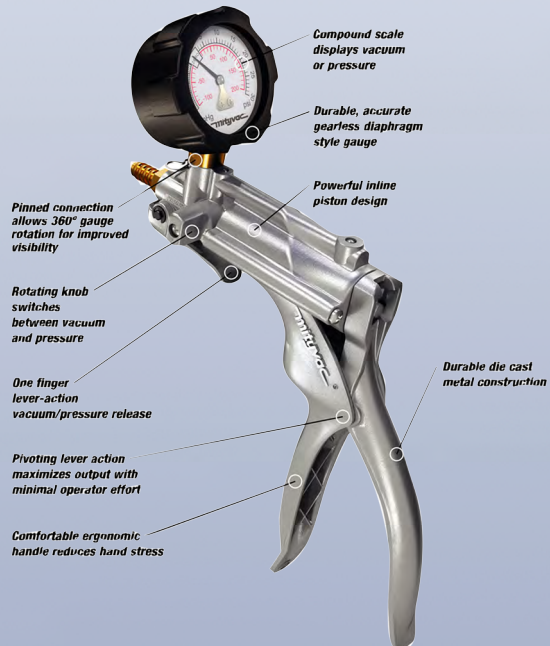
- Emission control systems (EGR, RCV, BPV) testing
- Turbocharger wastegate testing
- Vacuum and pressure brake and hydraulic clutch bleeding
- Ignition system diagnostics
- Fluid transfer/evacuation
- Automatic transmission service







MI8550





## FLOW METER COMMON RAIL SET

HU135



- Direct measurement of return flow of the injector using external flow meter
- Simultaneous measurement of up to 6 injectors possible





HU135A

## MASTER SET FOR FLOW METER COMMON RAIL

- Direct measurement of return flow of the injector to check if any injector is damaged
- Simultaneous measurement of up to 6 injectors possible
- Set includes 24pcs injector adaptors : apply for BOSCH, SIEMENS, DENSO and DELPHI injectors



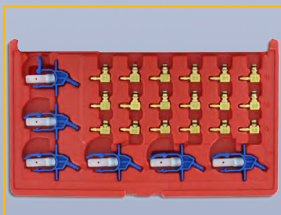


## FLOW METER COMMON RAIL ADAPTOR SET

HU135B



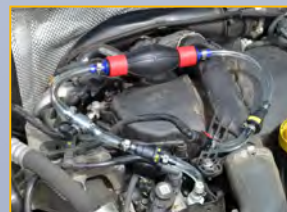
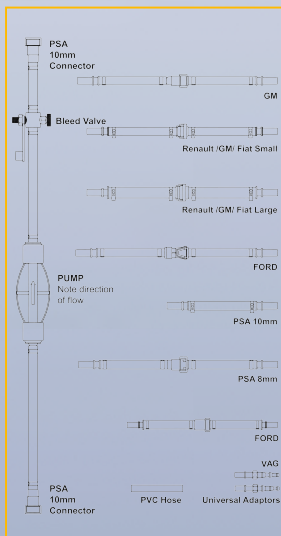
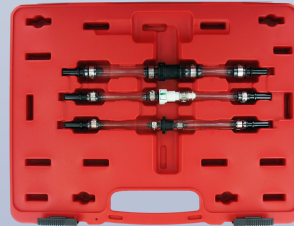
- 24pcs injector adaptors : apply for BOSCH, SIEMENS, DENSO and DELPHI injectors
- Use with HU135



HU12015

## DIESEL PRIMING AND BLEEDING KIT

- For bleeding or priming diesel systems
- For connection in-line with the vehicles low pressure delivery system
- The clear pipes allow any air bubbles in the system to be seen
- Time saver
- Ideal for VW - Mercedes - PSA - Renault - Fiat - Opel - Rover - Ford...







MI8550

## MITYVAC METAL HAND PUMP KIT

### Kit includes:

- MI8510 metal hand pump; the only hand pump that can produce and measure vacuum OR pressure with equal performance and precision (-980 mBar to 4 Bar)
- Large reservoir design (480 ml) with quick connector
- Other accessories

Mityvac has significantly improved the original Mityvac hand vacuum/pressure pumps used by automotive technicians, service and maintenance professionals, engineers and scientists worldwide. The new Mityvac Silverline Elite hand pump combines 35 years of automotive diagnostic experience with advanced performance and comfort to meet the requirements of the latest automotive technologies. Featured in the new MI8550 Silverline Elite Automotive Test Kit, the pump produces vacuum along with pressure at twice its previous output to expand its vehicle service applications.

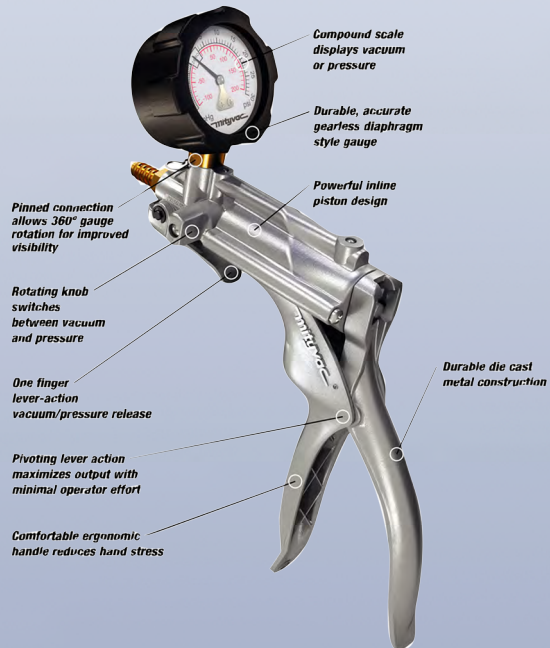
### Common Applications

- Emission control systems (EGR, RCV, BPV) testing
- Turbocharger wastegate testing
- Vacuum and pressure brake and hydraulic clutch bleeding
- Ignition system diagnostics
- Fluid transfer/evacuation
- Automatic transmission service





MI8550



## FLUID EVACUATION UNIT (1.5L )

AB70892



- Uses compressed air to generate deep vacuum to evacuate most fluid types (Engine and Differential Oil, Transmission and Brake Fluid, Coolant)
- Reduce repair times, increase productivity/ profit
- Design w/unique patented built in safety valves to prevent accidental fluid spray and spillage
- 1m suction hose w/ clear section for viewing flow
- Brake bleeder hose included
- Quick connect coupler hose for interchange
- Convenient hanging hook and quick release trigger allows hands free operation
- Float valve shuts vacuum down when container reaches full to prevent dangerous brake fluid spray if capacity is accidentally exceeded
- Internal shut off valve closes when not in use to prevent fluid spills when stored





HU507G

## MINI VACCUM FLUID CLEANER FOR INJECTOR HOLES



- Ideal for cleaning the injectors holes during or after injector extraction
- Vacuum cleaning is better than pressure blowing on Common Rail engines to avoid splashes on the engine





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