

## SPECIALTY METERS AND ANALYZERS

### Enhance Your Senses.

Whether it's getting a closer look at a problem with a videoscope, detecting the slightest engine noise with a listening device or diagnosing a complex electrical problem with a multimeter, Snap-on® gives you capabilities to see, hear and analyze. They deliver pinpoint accuracy and results you can take to your customers with confidence.

### Measure And Detect.

Problems come in many forms. Snap-on helps reduce the time and effort it takes to find the source, whether it's related to amps, volts, HC, CO<sub>2</sub>, CO, O<sub>2</sub>, NO<sub>x</sub>, degrees, grounds, short or open circuits, watts, rpm, decibels, compression, cylinder leakage or vacuum.



HYBRID  
INNOVATION



BK6000

### BK6000 Video/Still Recording Digital Borescope.

- Records and plays back still images and video clips
- 3 1/2" inch display offers large viewing screen and 2x digital zoom
- Removable, rechargeable Lithium-ion battery pack
- Can operate BK6000 while charging the battery
- Easy-to-use, multi-language interface
- Mini USB connector for uploading images and video
- External SDHC card slot
- Control handle disengages to allow greater maneuverability
- Audio input jack for recording comments with optional ear bud and microphone attachment

### BK6000 / BK5500 Applications:

- Ideal for engine, A/C, under dash, suspension and transmission work
- Inspect cylinder bores and valves through the spark plug hole
- Examine for gear wear in differentials and manual transmissions
- View inside door and body panels to check for malfunctions, defects and hidden damage
- Inspect under dash for electrical routing, HVAC actuator operation and radio code verification
- Locate fluid leaks without a direct line of sight



BK5500

### BK5500 Video Inspection Scope.

- Single on/off button and battery indicator
- Convenient thumb control for LED light intensity
- 2 3/8" color LCD provides a larger viewing image than eyepiece borescopes

### BK6000 / BK5500 Shared Features.

- 8.5mm diameter imager head fits into most spark plug holes
- High intensity LEDs direct light where it is needed
- 36" long obedient shaft for added reach
- 3/4" shaft bend radius for great flexibility
- 320 x 240 display resolution
- 720 x 480 imager resolution when using the video-out port to an external monitor
- Close focus range from 1/2" to 12"
- Quick-change connector enables use of optional length, specialized purpose imagers
- Integrated stand and hanger for flexible positioning



BK5500-7



BK5500-9



BK5500-10



BK5500-12



BK5500-13



BK5500-14

Stock No.	Description	Included with BK5500	Included with BK6000	Accessory for BK5500	Accessory for BK6000
BK5500-1	36" Imager (8.5mm head)	•			
BK5500-2	Mirror and Magnet	•	•		
BK5500-6	Blow Molded Case	•			
BK5500-7	72" Imager (8.5mm head)			•	•
BK5500-8	Video Out Cable	•			
BK5500-9	120" Imager (8.5mm head)			•	•
BK5500-10	36" Blue Light / UV Imager (8.5mm head)			•	•
BK5500-12	Dual Imager (mm head)			•	•
BK5500-13	36" View Imager (5.5mm head)			•	•
BK5500-14	Digital Video Recorder			•	
BK6000-1	Battery, Lithium Ion		•		
BK6000-2	S-Hook		•		
BK6000-6	Blow Molded Case		•		
BK6000-10	Battery Charger		•		
BK6000-11	Earbud and Microphone				•
BK6000-12	USB Cable		•		
BK6000-13	Kick Stand		•		
	(4) AA Batteries	•			
	Warranty	2 years	2 years		
	Instruction Manual	•	•		



**WARNING**



- Do not use in environment with explosive vapor
- Read safety precautions on pages 594 to 597

# TESTING AND ELECTRONICS

## Digital Multimeters

### Select the Meter For Your Needs

7 Year Limited Warranty



#### CHECK YOUR NEEDS

Specifications	✓	EEDM596DK	EEDM525D	EEDM504D	EEDM503D
Certificate of Calibration Model		EEDM596DCRT		EEDM504DCRT	
Display Count		40,000	4,000	4,000	2,000
AC Volts		750	750	750	750
DC Volts		1,000	1,000	1,000	1,000
Basic DC Accuracy		0.10%	0.50%	0.50%	0.50%
AC Amps		10	10	10	10
Micro Amps		Yes	Yes	Yes	Yes
DC Amps		10	10	10	10
True RMS (Root Mean Square)		Yes	Yes		
Resistance		40M Ohm	40M Ohm	40M Ohm	20M Ohm
Capacitance		Yes	Yes	Yes	
Frequency		Yes	Yes	Yes	
Analog Bar Graph		Yes	Yes	Yes	
Auto Range		Yes	Yes	Yes	
Data Hold		Yes	Yes	Yes	Yes
Min/Max		Yes	Yes	Yes	
Backlight		Yes	Yes		
Auto Power Off		Yes	Yes	Yes	
RPM (*opt.)		Yes	EEDMRPMG*	EEDMRPMG*	EEDMRPMG*
Adj. Trigger Level		Yes			
Noise Red. Circuit		Yes			
Temperature (*opt.)		Yes	Yes	EEDM506C*	EEDM506C*
Duty/Dwell		Yes	Duty Only	Duty Only	
mS Pulse Width		Yes			
Comp. Output (USB)		Yes, Included			
CE or UL Listed		CE, cULus 61010-1	CE, cULus 61010-1	CE, cULus 61010-1	CE, cULus 61010-1
CAT Rating		CATII 750 VAC CATIII 1000VDC CATIII 600 Volt AC/DC	CATII 750 VAC CATIII 1000VDC CATIII 600 Volt AC/DC	CATII 750 VAC CATIII 1000VDC CATIII 600 Volt AC/DC	CATII 750 VAC CATIII 1000VDC CATIII 600 Volt AC/DC
Easy Open Battery and Fuse Door		Yes	Yes	Yes	Yes
Glitch Capture		Yes			
Low Pass Filter (LPF)		Yes	Yes		
Blown Fuse Identifier		Yes	Yes	Yes	Yes
Dimensions (w/Boot), inches		7 3/4 x 3 3/4 x 1 1/2	7 3/4 x 3 3/4 x 1 1/2	7 3/4 x 3 3/4 x 1 1/2	7 3/4 x 3 3/4 x 1 1/2
Case		MT586BK1	MT586BK1	EEDM503B3	
Replacement Fuses		EEDM504B1 EEDM504B2	EEDM525D6 EEDM525D7	EEDM504B1 EEDM504B2	EEDM503B2 EEDM504B2

TECHNICAL SUPPORT  
1-888-382-6522

Certified and UL listed



**HYBRID  
INNOVATION**



7 Year Limited Warranty  
on Snap-on® meters

5 Year Limited Warranty  
on Blue-Point® meters

### CHECK YOUR NEEDS

EEDM604C	EEDM695C	MT454C	MT501C	MT574C	Specifications	✓
				<b>MT574CRT MT574CCRT</b>	Certificate of Calibration Model	
50,000	50,000	4,000	2,000	4,000	Display Count	
1,000	1,000	600	600	600	AC Volts	
1,000	1,000	600	600	600	DC Volts	
0.05%	0.05%	0.50%	0.75%	0.30%	Basic DC Accuracy	
10	10			400mA	AC Amps	
Yes	Yes				Micro Amps	
10	10			400mA	DC Amps	
Yes	Yes				True RMS (Root Mean Square)	
(plus conductance)	(plus conductance)	40M Ohm	2K Ohm	40M Ohm	Resistance	
Yes	Yes				Capacitance	
Yes	Yes				Frequency	
Yes	Yes				Analog Bar Graph	
Yes	Yes	Yes		Yes	Auto Range	
Yes	Yes		Yes	Yes	Data Hold	
Yes	Yes			Yes	Min/Max	
Yes	Yes				Backlight	
Yes	Yes	Yes		Yes	Auto Power Off	
<b>EEDMRPMG*</b>	<b>EEDM512B1*</b>		<b>EEDMRPMG*</b>	<b>EEDMRPMG*</b>	RPM (*opt.)	
	Yes				Adj. Trigger Level	
	Yes				Noise Red. Circuit	
<b>MT586B</b>	<b>MT586B1</b>		<b>EEDM506C*</b>	<b>EEDM506C*</b>	Temperature (*opt.)	
	Yes				Duty/Dwell	
Yes	Yes				mS Pulse Width	
	optional				Comp. Output (USB)	
CE, cULus 61010-1	CE, cULus 61010-1	CE, cULus 3111	CE, cULus 3111	CE, cULus 3111	CE or UL Listed	
CATIII 1,000 V CAT IV 600 V	CATIII 1,000 V CAT IV 600 V	CATIII 600 Volt	CATIII 600 Volt	CATIII 600 Volt	CAT Rating	
Yes	Yes				Easy Open Battery and Fuse Door	
Yes	Yes				Glitch Capture	
					Low Pass Filter (LPF)	
Yes	Yes				Blown Fuse Identifier	
3 13/16 x 8 x 2 13/32	3 13/16 x 8 x 2 13/32	6 x 3 x 2	6 x 3 x 2	6 x 3 x 2	Dimensions (w/Boot), inches	
<b>MT586BK1*</b>	<b>MT586BK1*</b>				Case (*optional)	
<b>EEDM604C1 EEDM604C2</b>	<b>EEDM604C1 EEDM604C2</b>			<b>EEDM504B1</b>	Replacement Fuses	

Certified and UL listed

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# TESTING AND ELECTRONICS

## Digital Multimeter Accessories



EETA501C

### EETA501C Clamp-on Amp Probe.

- Measures AC and DC currents greater than 10 amps without breaking the circuit
- Ideal for measuring starter (amps) and automotive current draw
- Used with DMMs that have 2V and 200 mVAC and DC ranges
- Range: 0 to 20 amp on 200 mVAC or DC, 0 to 400 amp on 2VAC or DC



EETA502C

### EETA502C Clamp-on Amp Probe.

- Similar to EETA501C except range is 0 to 1000 amp AC or DC



EETA503C

### EETA503C Low Current Adaptor.

- AC/DC low current adaptor for digital multimeters with DC mV Range and 10 mAmps impedance
- Measures parasitic current draw on battery cable when key is in off position to indicate component failures or shorts
- Quickly measures branch circuit draw to isolate problem area. Safely measures current draw of electrical fuel pumps
- Measures from 10 mA to 60 Amps



EEDM5030

### EEDM5030 Pressure Adaptor.

- Measure pressure from 1 to 500 psi and vacuum from 1 to 29 inHg
- Output is 1mV DC per psi or inHg
- Ideal for measuring transmission or hydraulic pressure
- 1/4" NPT fitting on pressure transducer
- Sensor compatible for air or liquid
- 6 1/2' cable length



EEDMRPMG

### EEDMRPMG Gasoline Engine RPM Adaptor.

- Ideal for small, single cylinder, 2 and 4 stroke gas engine applications
- Use with any digital multimeter that has DCmV ranges to measure gasoline engine RPM
- Plug adaptor into DMM (set to DCmV function), clip lead above engine spark plug boot and multiply reading by 10
- Range is 300 to 6,000 rpm
- Output is 1 DCmV per 10 RPM
- Powered by 9V battery (included)



EEDMRPMD

### EEDMRPMD Diesel Engine RPM Adaptor.

- Ideal for small diesel engine applications
- Measures diesel engine RPM
- Plug adaptor into the DMM (set to IP), attach transducer to fuel line leading to an injector and read RPM on the meter
- Range is 300 to 4,000 RPM
- Resolution is 1 RPM. Powered by 9V battery (included)



EEDM5997

### EEDM5997 DMM RPM Adaptor.

- For motorcycles, outboard motors, snowmobiles and ATVs with limited or no ignition shielding
- Use with 2 or 4 stroke engines
- Internal circuitry filters out noise
- Pick up features dual tapped coils to help eliminate errors on negative polarity ignitions



EEDMDVA

### EEDMDVA Direct Voltage Adaptor.

- Converts outboard marine, motorcycle and other small engine ignition pulse signals into DC voltage signals
- Adaptor helps identify secondary ignition problems like failed individual coil packs or poor spark



EEDM5830

### EEDM5830 Amp Adaptor.

- Allows DMMs to accurately measure up to 30 Amps AC/DC by converting the signal to millivolts
- Measure current draw of individual circuits from fuse box on automobiles, trucks and buses
- Measure the parasitic load on the battery
- Requires no internal/external power supply
- Range of 0 to 30 Amps



EETA106B

### EETA106B Inductive Pickup Blue-Point®.

- Non-intrusive pickup slides over to secondary ignition spark plug wire and snaps shut for quick hook-ups without directly connecting to ignition circuit
- Used on most engines with 2 and 4 cycle ignition systems including small engines and waste spark systems



EEDM506D



EETH501C



EETH502B



EETH503B

## Temperature Probes and Adaptor

### EEDM506D Temperature Adaptor.

- Adds temperature capabilities to multimeters that do not have built in temperature functions
- Provides dual temperature and differential temperature measurements for multimeters
- Output equals 1mV per degree
- Use with any multimeter with 200mVDC and/or 2VDC ranges
- Provides readings from -50° F to 1,800° F. Includes 2 beaded K-type temp probes. Low battery indicator light. Accuracy:  $\pm 0.75\%$  of full scale + one digit

**EETH501C Temperature Probe.** Measures temperature in fluids and soft materials.

**EETH502B Temperature Probe.** Measures surface temperatures. 8" tip.

**EETH503B Temperature Probe.** Measures air temperatures. 8" tip.

### MTTL501 Probe Extension.

- 8" probe extension for EEDM504B3
- Reach connectors under dash or deep in engine compartment
- Alligator clips (not included) screw on to probe ends
- Fully insulated for user safety



MTTL501

### EEDM504B3 Test Lead Set w/Alligator Clips.

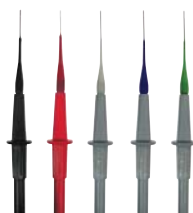
- Standard vinyl jacketed set of test leads with screw on alligator clips for basic application testing needs
- Screw on probe protectors limit the metal probe shaft from touching during testing for safety (remove the protectors when using alligator clips or adaptors)



EEDM504B3

### MTTL7005PK Backprobes.

- Color coded for easy identification
- Non-intrusive probes slide behind terminals
- Modular ends attach quickly



MTTL7005PK

### TL2A Test Lead Set.

- High grade test lead pair fits all meters using standard banana plug jacks
- Non slip prodding probes have stainless steel points
- Coiled cords stretch to more than 60"
- Screw on alligator clips convert the leads to jumper wires



TL2A

### TL3A Test Leads.

- Heavy duty pair of jumper leads
- Use to connect a power source or a ground to test a fixture in automobile
- Heavy duty alligator clips feature the "bed of nails" concept
- Banana plug screws allow use with most multimeters.



TL3A

### TL4A Multimeter Test Leads.

- High grade test leads offer excellent coil memory and can be used with most popular test meters
- Leads feature the "bed of nails" concept, wire piercing probe and alligator style all-in-one tips



TL4A

### MTTL504 Fused Test Leads.

- 48" fused test leads help protect unfused digital multimeters from electronic damage
- Provides additional protection when measuring high voltage
- Includes test lead set with alligator clips and 5 extra fuses
- Overall length is 48"



MTTL504

### MTTL5041 5 Amp Fuses.

- 3-pack of replacement 5 amp fuses for MTTL504 fused test leads



EETA107B

### EETA107B Shielded Test Lead.

- Shielded test leads block out radio frequency interference (RFI)
- 6' leads are heat and oil resistant



EETA108B

### EETA108B Shielded Test Lead.

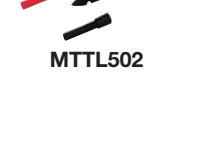
- Shielded test leads block out radio frequency interference (RFI)
- 10' leads are heat and oil resistant



MTTL502

### MTTL502 Insulation Piercing Test Probes.

- Use probes on threaded probe tips
- Banana adaptors included so probes can be used on banana plug lead sets



### TLS7B Test Lead and Adaptor Kit.

- Quick attach probes and mini alligator clips press onto the straight PVC jacketed lead set
- Threaded hook clips, standard plugs and alligator clips thread onto the probe ends
- Provides an economical set for conducting various tests



TLS7B

### MT300 Test Lead Kit.

- 4 color coded test leads help reduce the chance of wrong connections
- Use as test lead, jumper wires, or for shorting out components when performing ignition system tests
- Each lead is 4' long



MT300

### MT301A Test Lead Kit.

- Contains 12", 18", 24", and 10' jumper leads
- Use as extension leads or for shorting out components when testing ignition



MT301A



**WARNING**



- Do not use in environment with explosive vapor
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# TESTING AND ELECTRONICS

## Test Leads

### High Grade Test Leads (For Digital Multimeters)



MTTL500

#### MTTL500 Test Lead Kit.

- Interchangeable probes permits wider range of testing possibilities
- Right angle 48" long test leads are made from double insulated silicone super flex wire
- Spring hooks for use on 16 gauge and smaller bare wire
- Alligator clips for attachment to bolts and large wire conductors
- Spade terminals for use on terminal blocks and prods for probing wire ends

Stock No.	Description	MTTL500	MTTL600	MTTL700
MTA20	Prods - modular	•		
MTA24	Test Leads Silicone Jacket - modular	•		
MTA75	Alligator clips - Medium - modular	•		
MTA80	Spring hooks - modular	•		
MTA85	Alligator clips - Heavy Duty - Flanged	•		
MTTL7001	Test Leads Silicone Jacket - threaded			•
MTTL7002	Banana Plugs - screw-on		•	•
MTTL7003	Alligator Clips - Large - modular		•	•
MTTL7004	Insulation Piercing Prods - modular		•	•
MTTL7005	Backprobe adapters - needle - modular		•	•



TL616AO



TL624AG



TL648AR

### High Visibility Jump Leads

#### TL Series High Visibility Jump Leads.

- High grade test leads offer the highest heat and oil resistance and exceptional coil memory
- Leads feature a removable "bed of nails" concept
- After removal, probe end with 8-32 brass thread allows use of other product accessories

**TL616AO Test Leads.** Hi-vis orange color, 16' extended length.

**TL624AG Test Leads.** Hi-vis green color, 24' extended length.

**TL648AR Test Leads.** Hi-vis red color, 48' extended length.



YA1175KIT

### Retractable Test Leads Blue-Point®

- YA1175KIT Retractable Test Lead Kit.** Includes YA1175-1 probes (pair), YA1175-2 alligator Clips (pair) and YA1175-3 spring hooks (pair)
- Retractable test leads pull out and stay at desired length
  - Rewind test leads when not in use for compact storage
  - 18 gauge copper wire and interchangeable tips



MTTL600



MTTL700

#### MTTL600 Test Lead Kit.

- Includes screw-on banana plug adaptors, needle backprobe adaptors, large alligator clips and insulation piercing prods

#### MTTL700 Test Lead Kit.

- Includes screw-on banana plug adaptors, needle backprobe adaptors, large alligator clips and insulation piercing prods
- Test leads with interchangeable tips are 50" long
- Double insulated silicone wire is heat and flame resistant and flexible in extreme cold conditions

#### MTA70 Alligator Clip Set.

- Screw-on style alligator clips for use with EEDM504B3
- Do not use with MTA24



MTTL505



MTA70

#### MTTL505 Grabber Lead Set.

- Grabber leads slide in to grab wire or terminal ends in tight areas
- Recommended for use with MTTL500 modular test lead set or MTTL700 with the MTTL7002 screw-on banana plug adaptors
- Use with any threaded test lead set using the MTTL7002
- The finger grip and plunger placement provides technician controlled placement of the jaws even under extreme conditions
- Jaw gripping pressure securely bites on the target terminal or wire
- Plunger and finger grip allow maximum jaw opening with minimum pressure for ideal placement, enabling a good contact
- Safety CAT III 1000 V, 10 A rating. cULus 61010 and IEC61010 listed



TLR6B



TLBR6B

### Intrusive Circuit Testing Adaptors

- High quality "bed of nails" wire piercing adaptors
- These alligator style clips allow circuit testing when back probing is not desired or practical

**TLB6B Adaptor.** Straight nose test clip with black boot.

**TLR6B Adaptor.** Straight nose test clip with red boot.

**TLBL6B Adaptor.** Straight nose test clip with blue boot.

**TLBB6B Adaptor.** 15° bent nose test clip with black boot.

**TLBR6B Adaptor.** 15° bent nose test clip with red boot.

**TLBBL6B Adaptor.** 15° bent nose test clip with blue boot.



TSL4A

### Battery Adaptor

#### TSL4A Battery Adaptor.

- 12V cigarette lighter style adaptor supplies power to circuit testers and scanners as well as to most other 12V powered devices like car phones and lights
- Copper-coated alligator clips with vinyl grips attach to battery terminals
- 3' cord length



# TESTING AND ELECTRONICS

## Circuit Testers



CT4G

### 6 and 12 Volt Circuit Testers

#### CT4G Circuit Tester.

- Can be used to detect power, ground and find shorts and breaks
- 6' cord, insulated alligator clip, 3 1/2" long insulated probe
- 7 1/4" overall length
- Uses 2-5130 bulb



EECT300BR

#### EECT300BR Circuit Tester.

- Similar to CT4G

- Red coiled cord extends to 12'
- Uses 2-5130 bulb

#### EECT300BG Circuit Tester.

- Green coiled cord

#### EECT300BO Circuit Tester.

- Orange coiled cord



CT2

#### CT2 Miniature Circuit Tester.

- For easy access to tight places
- 1 3/4" long probe
- 4 1/2" overall length 6' cord
- Uses 2-5130 bulb



EECT301B

#### EECT301B Circuit Tester.

- Powered by vehicle plug or the TLS4 and TLS5 battery adaptors
- Red LED indicates power, green LED indicates ground
- 12 Volt only



EECT100

#### EECT100 Circuit Tester

##### Blue-Point®.

- Basic circuit tester
- Replaceable blue light (EECT100-1)



EECT314A

#### EECT314A Multi-Voltage Circuit Tester.

- Compatible with current 12 Volt and 42 Volt systems
- Safe for low current circuits since tester only draws 3 mA at 12 Volt
- Automatic voltage identification with blue LED for 12 Volt and red LED for 42 Volt



CTS42V

## Specialty Circuit Testers

### CTS42V Circuit Tester

#### Blue-Point.

- Quickly finds broken wires, blown fuses, bad switches and more
- Microprocessor controlled current loading capability for tests of powers and grounds
- Unit features all the advantages of an incandescent test light while being computer and air bag safe
- Super bright LED headlamp for working under dash, under hood or behind door panels
- Dual audible tone and bicolor LED indicate power, ground or open circuits
- 42 Volt



CT24E

#### CT24E Circuit Tester.

- Circuit tester for 18 and 24V systems
- Uses 2-5130 bulb



EECT313A

#### EECT313A Terminal Test Kit.

- Non-invasive system tests 6 and 12 Volt systems without damage to the connector
- Terminal matched tips assure a secure mechanical and electrical connection
- Flexible rubber probe tips prevent damage and allow access to tight spaces
- Uses 2-5130 bulb



CTN10001

#### CTN10001 Circuit Tester.

- Cordless unit with no ground wire to deal with
- Red LED indicator and audio signal to verify power
- Computer and air bag safe
- 3-24 Volt DC range



YA11167

#### YA11167 OBD-II Breakout Box Blue-Point.

- Provides easy access to all 16 OBD-II terminals and connection to scan tool
- Eliminates guessing which terminals are being probed
- Eliminates damage to vehicle terminals from probing
- Tester probes plug in securely so you are free to diagnose
- No more crawling under the dash
- Great for diagnosing inoperative communication links



EEDMRACKM

#### EEDMRACKM

- Convenient rack to hold circuit testers, DMM lead sets, amp clamps, temperature probes and other accessories for multi-meters
- Can be mounted to wall with screws or placed on rollcab with magnetic block



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# TESTING AND ELECTRONICS

## Circuit Testers



CTS2

## Continuity Testers

### CTS2 Continuity Volt Tester.

- Use as a conventional circuit tester or, with a flip of a switch, use as a continuity tester for testing ignition, wires, broken feed or ground, and blown fuse problems
- Tests for a range of DC voltage from 6 to 24V
- Running LED scale provides accurate tests of alternator output



MT1009A

## Inductive Ammeters

### MT1009A Inductive Ammeter Set (2 pcs).

- Meters require no direct hookup
- Just lay meter guide on cable for item being tested and take a reading
- Zero center scale provides a reading regardless of polarity
- Individual meters for measuring alternator and starter current



EEFB310

### EEFB310 Fuse Buddy® Pro Test Kit Blue-Point®.

- Great tool for reading circuit amperage draws and troubleshooting up to 30 Amps
- Includes: 1 meter with 3 interchangeable test functions: 30 Amp MINI circuit current testing, 30 Amp ATC circuit current testing and 30 Amp all purpose current test
- Plugs directly into MINI and ATC fuse sockets
- Original fuse is replaced in-line, thereby maintaining circuit protection
- Measuring range: 0-30 Amps/48 VDC – 10 seconds
- Accuracy:  $\pm 2\%$  of reading
- Resolution: 100 mA



EEFB315

### EEFB315 Max Fuse Buddy™ Kit Blue-Point.

- MAXI circuit testing capability up to 80 Amps
- Also works with ATC and MINI circuits (adaptors included)
- Unit features peak hold functions and one touch zero function
- Use on anti-lock brake circuits, car stereo circuits, power distribution circuits, marine and automotive branch circuits, rear window defogger circuits, solar power DC branch circuits, traction control circuits, solar charge controller circuits and heavy duty equipment circuits
- Amps: 0-80 Amps DC
- Resolution: 0.1A
- Accuracy:  $\pm 2.0\%$  of reading + 4 digits



YA111KIT

## Short Circuit Locator

### YA111KIT Relay Shorting Plug Kit Blue-Point.

- Plugs close normally open contacts and instantly determine which half of an output circuit is suspect
- Eliminates guessing which terminals to short
- Significantly reduces diagnostic time
- Kit works on all vehicles using standard 4 and 5 pin relays
- Avoids damage to relay socket as a result of probing

#### YA111-10 Relay Shorting Plug.

- 10 Amp

#### YA111-15 Relay Shorting Plug.

- 15 Amp

#### YA111-20 Relay Shorting Plug.

- 20 Amp



YA8006

## Fuse Savers

### YA8006 Master Fuse Saver Kit Blue-Point.

- Dual type fuse box connector with 10' cord allows you to move around the vehicle shake-testing wires while looking for the short
- No wasted fuses
- Includes: 5, 10, 15, 20 and 30 Amp resetting breaker handles, buzz alert module and 6 fuse adaptors
- Use when installing radios, CD players, radar detectors and other accessory equipment

### YA8005 Fuse Saver Kit Blue-Point.

- Dual type fuse box connector with 10' cord allows you to move around the vehicle testing wires while looking for the short
- Includes: 10, 15, and 20 Amp resetting breaker handles
- Use when installing radios, CD players, radar detectors and other accessory equipment

## Accessories

### YA8005-EXT 10 E xtension Cord.

- 10' extension cord

### YA8005-11 Buzz Alert Adaptor.

- Buzz alert sound module



YA8005

# TESTING AND ELECTRONICS

## Circuit Testers



YA7900A

YA7900AP

### Trailer Harness Testers and Adaptors Blue-Point®

#### YA7900A Mobile Universal Trailer Light Tester.

- Unit offers full trailer light testing features and capabilities with on-board diagnostics on site
- Using a 12 Volt car battery, a technician can wheel the tester to the trailer and power up all its lighting systems while diagnosing electrical problems in the brakes, turn signal, running and safety light systems
- RF remote control allows complete testing from over 100' away (a technician is free to walk around any size trailer while in full control of the testing sequence)
- Auto Cycle feature continuously powers up and switches to each circuit for 5 seconds to reduce inspection time

#### TECHNICAL SUPPORT

1-888-786-7899

#### Features:

- Overload indicator
- Open circuit indicator
- Reversed polarity indicator
- Backlit 30 Amp meter
- 3 Amp trickle charge input
- 20 Amp sole Power Input
- 7 round trailer socket
- Auto indicator
- Voltage indicator
- Circuit indicators
- Chassis ground
- 20 Amp fuse
- Power selection switch
- 10" pneumatic tires

#### YA7900AP Mobile Universal Trailer Light Tester.

- Same as YA7900A with trailer air brake systems test added

#### YA7900A-PKIT Brake System Testing Add-on Kit.

- Allows owners of the original YA7900A to add air brake testing capabilities to their units

- Upgrades YA7900A units to YA7900AP

#### YA7900A-1 Round Pin Cable.

- 7-way round pin cable is 5 feet long

#### YA7900A-2 Chassis Ground Cord.

- Chassis ground cord is 10 feet long

#### YA7900A-3 Adaptor.

- 7-way round to 7-way flat adaptor

#### YA7900A-4 Remote Control.

- Wireless



MTAC110

### AC Voltage Sensor MTAC110

#### MTAC110 AC Voltage Sensor.

- Non-intrusive AC sensor detects voltage from 110 to 600 VAC
- Use to ensure the absence of current before working on a circuit
- Move probe tip along an insulated wire, near an outlet or near a circuit breaker and tip will glow if voltage is present



TLT8003



TLT8000



TLT5



TLT6



TLT7

#### TLT8003 Trailer Plug Adaptor.

- Converts 12 Volt feed at the back of a truck or SUV trailer socket to a dual 12 Volt power outlet
- Powers 12 Volt test equipment, charging equipment and work lights in shop environment
- Recreation purposes such as running air pumps, radios or TVs while tailgating and camping
- Plugs into any 7-way spade pin trailer connection

#### TLT8000 Three Way Trailer Adaptor.

- Adapts 7 way connection to 6 round pin and 4/5 pin connections
- Sealed plugs to keep road debris from corroding connections
- Winged grip for easy installation and removal
- Use on medium/light duty trucks, 1/2 ton, 3/4 ton and 1 ton pickups, campers and other heavy duty applications

#### TLT5 Trailer Harness Tester.

- Easily locates electrical problems in the tow vehicle
- Checks both 4 and 5 pin flat trailer connectors with LED indicator lights
- Tests left and right signals, brake lights and running lights

#### TLT6 Trailer Harness Tester.

- Checks 6 pin round trailer connectors with LED indicator lights
- Same applications as TLT5

#### TLT7 Trailer Harness Tester.

- Checks 7 pin round trailer connectors with LED indicator lights.
- Same applications as TLT5



#### YA3179B Circuit Chaser.

YA3179B

- Round pin circuit chaser for semi trailers
- Test the semi trailer plug and cable
- Both male and female ends so technician can isolate a fault to trailer or cable
- Can temporarily repair short circuits in the shop or on the road
- Includes: 5 jumper tabs and 1 replacement prong



AC41C

### Electrical Brushes

#### AC41C Taillight Socket Brush.

- Stiff carbon steel wire bristles
- 6 5/8" long



**WARNING**



- Do not use in environment with explosive vapor
- Read safety precautions on pages 594 to 597

# TESTING AND ELECTRONICS

## Hand Held Gas Analyzers



HHGA4X

### HHGA4X Hand Held Gas Analyzer Kit.

- 5 gas analyzer tests vehicle exhaust emissions for Nitrogen Oxide (NOx), Carbon Monoxide (CO), Hydrocarbons (HC), Carbon Dioxide (CO2), Oxygen (O2) and AFR/LAMDA
- Provides ideal functionality for diagnostic work, pre-compliance testing and servicing vehicles to manufacturer's specifications
- Helps diagnose engine problems and catalytic converter failure
- Onscreen commands in 8 languages
- Can be powered by AC or 12V
- Fully portable and is ideal for on road testing
- Magnet on analyzer and printer allows mounting almost anywhere
- Print records to infrared printer

**TECHNICAL SUPPORT**  
1-888-717-1333



MT706A



HHGA-8

### HHGA-8 Motorcycle Exhaust Probe.

- Optional motorcycle exhaust probe for HHGA Series gas analyzers



HHGA-9

### HHGA-9 Five Gas Exhaust Probe.

- 5 gas exhaust probe for HHGA Series gas analyzers

### HHGA-11 Filters.

- Filters for HHGA Series gas analyzers



HHGA-16

### HHGA-16 AC Adaptor.

- Designed for use in the service bay



HHGA-17

### HHGA-17 12V Adaptor.

- Designed for use in the service bay or on the road

### HHGA-18 Paper Roll.

- Replacement paper roll for HHGA-5 infrared printer



HHGA-5

### HHGA-5 Infrared Printer.

- Infrared printer for HHGA series gas analyzers

## Carbon Monoxide Analyzer

### MT706A Carbon Monoxide Analyzer Blue-Point®.

- Monitor and test adjustments affecting carbon monoxide emissions from gas powered vehicles, propane powered forklifts plus other combustion style equipment
- Flow indication warns of restricted emissions flow due to clogged or pinched lines
- Backlit display for ease of reading in dim light
- Range is 0 to 10% CO (approx. 100,000 PPM)
- Response time is 90% of reading in less than 60 seconds
- CE conformity

**TECHNICAL SUPPORT**  
1-888-382-6522

## Leak Detectors



ACT790

**ACT790 Combustible Gas Detector.** Find leaks in fuel and exhaust systems plus verify integrity of fuel storage containers. Detectable compounds include acetylene, iso-butane (R600a), methane, ethane (R170), propane (R290), hydrogen, acetone, methanol and gasoline. Probe length of 17". Uses (4) AA alkaline batteries. Conforms with SAEJ1627 and is designed to conform with SAEJ2791. Body length of 10 3/8". Includes storage case.

- Numeric leak size indicator
- Audio mute function
- Automatic calibration
- Comfortable neoprene grip
- Intrinsic safety certified
- 3 levels of sensitivity
- Flashing probe LED visual leak indicator
- Long life sensor
- High impact injected molded instrument case
- 2 year warranty on detector, 2 years on sensor



# TESTING AND ELECTRONICS

## Leak Detectors



EELD302B



EELD100



EELDCOVER

### Diagnostic Smoke™ Machines

#### EELD302B Diagnostic Smoke Machine (EVAP).

- Evaporative emissions diagnostic smoke machine delivers fully automatic EVAP system testing plus general purpose applications
- Vapor trail and/or fluorescent dye pinpoint leaks
- Unit safest with nitrogen (nitrogen optional)
- Uses EELD301A1 UltraTrace™ scent free smoke producing solution
- Unit ships fully loaded with smoke solution

#### EELD302B and EELD100 Applications:

- Oil leaks • EGR valve • Wind and water leaks
- PCV valve and hoses • Air cleaner assembly
- Mass air flow meter • Vacuum switches • Loose clamps
- Throttle body shaft • Diaphragms • Air valves
- Map sensors • Exhaust manifolds • Exhaust pipes and mufflers
- Vacuum hoses • Intake gaskets • Air ducts
- Carburetor base gasket • Injector o-rings

#### EELD100 Diagnostic Smoke Machine (EVAP).

- General purpose smoke machine

#### EELDCOVER Cover.

- Optional cover for EELD302B and EELD100

#### EELD302B and EELD100 Standard Accessories:

##### EELD301A2 Cap Plug Kit.

##### EELD301A3 Exhaust Cone Adaptor.

##### EELD301A4 Wind/Water Leak Adaptor.

##### EELD301A5 Halogen Spotlight.

##### EELD302A1 Nitrogen Hose (optional on EELD100).

##### EELD302A2 EVAP Port Adaptor (Standard Service).

##### EELD302A3 EVAP Port Adaptor (Ford Service-optional on EELD100).

##### EELD302A4 Schrader Valve Core Tool.

Specifications	EELD302B	EELD100
Power Supply	12VDC	12VDC
Power Consumption	15 Amps	15 Amps
Supply Volume	10 l/min	10 l/min
Line Length/Smoke Supply, ft. (mm)	10 (3)	10 (3)
Line Length/Power Supply, ft. (mm)	10 (3)	10 (3)
Line Length/Remote Starter, ft. (mm)	10 (3)	10 (3)
Weight, lbs. (kg)	21 (9.5)	19 (8.6)
Dimensions, inches (mm)	17 H x 16 L x 12 W (431H x 406L x 254W)	13 H x 13 L x 12 W (305H x 330L x 254W)

Diagnostic Smoke Vapor Producing Machines - Feature Comparison	EELD302B	EELD100
STAR Diagnostic Smoke vapor technology developed in collaboration with Ford Motor Co., GM & Chrysler (Approved by most major OEMs*)	•	•
UltraTraceUV® dye solution the ONLY dye solution approved by any OEM. Will not harm activated charcoal canister, ORVR valve, purge valves, catalytic converters, O2 sensors, seals or gaskets and determined not to void vehicle factory warranty*	•	•
Designed with an electronic safety valve that automatically shuts off air flow into the vehicle's EVAP system every time the machine turns off. This stops gasoline fumes from possibly continually exiting the EVAP system and filling your work bay*	•	•
Meets spec if OEM requires nitrogen to produce the smoke when testing the EVAP system*	•	•
Flow test capabilities*	•	•
Pressure decay**	•	•
Shared accessories: 1 Exhaust cone, Spotlight port adaptor, Cap plug kit, Tech Tip booklet	•	•
Additional accessories 25 nitrogen coiled hose, 2 Exhaust cones	•	
Dual Phase testing capabilities; first verifies 0.040 & 0.020 leaks with a simple 2 minute pass/fail test	•	
Internal orifice calibration for 0.040"=1999 vehicles and older	•	
Internal orifice calibration for 0.020"=2000 vehicles and newer	•	
Built in Future upgradable leak standard	•	
OEM test modes: Phase One & Phase Two	•	
Micro processor touch pad for quick and easy operation of tester	•	
2 Year Warranty		•
3 Year Warranty	•	

\*Most OEMs now require this feature.

\*\*EELD302B doesn't need this feature because it has OEM test modes for Phase-one and Phase-two

**TECHNICAL SUPPORT**

**1-800-901-1988**



**WARNING**



- Do not use in environment with explosive vapor • Use only in well ventilated area
- Read safety precautions on pages 594 to 597

# TESTING AND ELECTRONICS

## Leak Detector Accessories



EELD302REG



EELD302CART



EELD302010



EELD301A1



EELD301A1

### EELD302REG Gas Flow Regulator Blue-Point.

- Easily connects to nitrogen cylinder (optional)
- 3 pack of EELD302REG
- One size fits all (new model vehicles may be subject to change)

### EELD302CART Cart Blue-Point.

- Exclusive heavy duty, black powder-coated cart holds the EELD302B or EELD100 securely in place allowing for easy transport anywhere in the service bay
- Specially designed tray carries nitrogen tank (optional)

### EELD302010 Upgrade Kit, .010.

- Follow the steps to install this kit into your EELR302B smoke machine
- EELD302B smoke machine will now measure leaks to .010"
- Includes solenoid assembly, o-ring and O'Keefe orifice

### EELD301A1 UltraTraceUV® Smoke Solution.

- UltraTraceUV™ scent-free smoke producing solution for use with EELD301A/EELD302B smoke machines
- Single 12 oz. bottle

## Specialty Meters and Small Testers



RELAYTEST1

### Automotive Relay Tester

#### RELAYTEST1 Automotive Relay Tester.

- Quickly and accurately test 4 and 5 terminal electromechanical relays used on many domestic and imported automobiles.
- Will interrogate and identify an unknown relay terminal configuration then self configure its own internal circuitry to perform all required test functions automatically
- Can be used to perform the following tests: coil resistance, surge suppression device (resistor or diode), open/closed contact integrity, contact cyclic testing for intermittent failure detection, loaded contact continuity, relay contacts stuck open or closed and time to contact closure and opening
- Unit automatically indicates test results with a series of red, green and yellow performance lights



EEDM575D

### Digital AC/DC Clamp On Meters

#### EEDM575D Digital Clamp On Meter.

- A true RMS meter that provides accurate measurements of nonlinear current
- Designed to measure starting current to 400 Amp, as well as volts, resistance and frequency
- Use to diagnose wheel speed sensors, injector control signals, cam and crank outputs, test cables, connections and fuses
- LCD display and analog bar graph enhance viewing of fast signal changes
- Records maximum and minimum values of RMS current, frequency or other measurements with Min/Max/Rec function
- Meets UL, IEC and cULus61010 safety standards
- Includes test leads, temperature probe, soft carrying case, battery and instruction manual

Specifications	EEDM575D
Display Count	11,000
AC Amps	400
AC Volts	600
DC Amps	400
DC Volts	600
Basic DC Accuracy	0.5%
Frequency	10 KHz
Resistance, ohms	110M
Dimensions, (L x W x H) inches	10" x 1 3/8" x 2 1/2"



YA76562

### Coil-On-Plug (COP) Probe

#### YA76562 Ignition Quick Probe Blue-Point.

- Quickly verify the firing of a coil on plug (COP) ignition coil and spark plug
- Eliminates the need for back probing coil wires and disassembly to test at the coil connector or spark plug
- Variable sensitivity (VS) thumbwheel for greater diagnostic accuracy and expanded application coverage
- Super bright KV and ARC indicator LEDs

Quickly pinpoint the source of noise or vibration in underhood, undercar and vehicle interiors. 6 selectable channels allow placement of sensors in various locations to pick up bearing, gear, engine, suspension, drive accessory and wind noises.

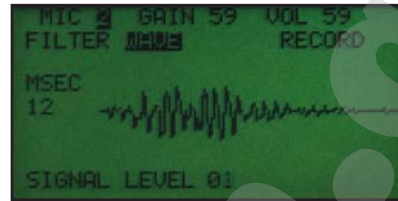


LD6900

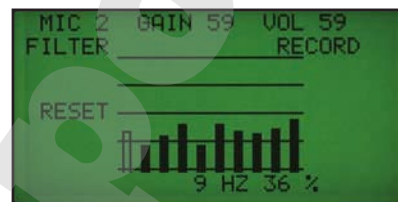
### Electronic

#### LD6900 THEBIS™ Diagnostic Unit.

- Under Chassis: Differentials/CV joints, transmission/transfer cases, u-joints plus bearings, gears and suspensions
- Under Hood: Faulty fuel injectors, vacuum leaks, noisy valves and lifters
- Body: Wind and vent noise, dashboards and instrument panels
- Operate as an electronic noise and vibration detector using the inductive clamp or vent microphone attachments
- Operate as an electronic stethoscope using the listening wand and contact probe attachments
- Recorded files are stored on included USB memory stick for easy playback on PC



Wave Form Viewer-displays a visual representation of the audio signal



Band Pass Filter-tunes out unwanted background noises

#### YA6890KT Electronic Squeak and Rattle Finder

##### Blue-Point®.

- Quickly pinpoints source and location of noises emanating from under chassis, under hood, transmission, differential/CV joint, faulty fuel injectors and bearings, gears and suspension parts
- Helps detect and isolate squeaks, rattles, groans, cowl "pops", clunks, growls, thumps, rumbling and ticking noises
- Wireless transmitters feature magnetic body with versatile clip
- Wireless channel receiver isolates six different transmitter locations
- LED lights indicate the strength of signal of the active channel
- Illuminated button indicates active channel at a glance

##### YA6895 Transmitter (Channel 5) Blue-Point.

- Optional transmitter for YA6890KT. Operates on channel 5

##### YA6896 Transmitter (Channel 6) Blue-Point.

- Optional transmitter for YA6890KT. Operates on channel 6

##### YA6930 Electronic Engine Stethoscope Blue-Point.

- Electronic stethoscope amplifies sound during diagnosis or verification of proper vehicle operation
- Contact probe is used to pinpoint faulty bearings, injectors, squeaks, rattles and more
- Mode selection switch with LED indicator easily switches between the stethoscope and contact probe functions
- Noise cancellation feature eliminates background noise
- Studio style headphone set with tangle free cord
- Detachable flex-wand with LED illuminated tip
- Rotary volume control



YA6890KT



YA6895



YA6896



YA6930



**WARNING**



• Read safety precautions on pages 594 to 597



# TESTING AND ELECTRONICS

## Stethoscopes



YA6910



YA6920



MST100



GA111D



YA6800

### Electronic

#### YA6800 Electronic Stethoscope Blue-Point®.

- Features 7 level sound control settings, A/B tone control, high/low volume controls, and battery check position on control stick
- Supersensitive microphone in top is attached to a flexible 9" shaft for hard to reach areas
- LED light signals when switch is on; earphones block outside noise
- Adjustable volume controls

#### YA6910 Mini Electronic Stethoscope Blue-Point.

- Convenient diagnostic tool can pinpoint location of noise caused by bad bearings, bushings, dirty fuel injectors, wind and air leaks, noisy valves and lifters
- Allows user to monitor gears, bearings and suspension components under load so problems can be more accurately diagnosed
- Sensor clamp helps to detect noises during test drives that cannot be duplicated in the work bay
- Sensor tip mounted on 6" flexible shaft allows access to hard-to-reach areas
- 5" inductive metal probe allows user to pinpoint source of noise or vibration
- Ultra sensitive microphone provides a full range of sound
- Rotary volume control allows easy adjustment

#### YA6920 Electronic Marine Stethoscope Blue-Point.

- Unique diagnostic listening device specifically designed to pinpoint squeaks, rattles and other troublesome noises in most marine vessels and watercraft with inboard or outboard motors
- Test for noise and harmonic vibration on bearings, under dash areas, control cables, fuel injectors, cabinets and compartments, alternators, switches, pumps, final drives, steering gears, gear cases, steering pumps, hulls and compressors
- 14 ft. long, water-resistant wire loom harness allows user to diagnose hard-to-reach problem areas
- 6 spring-loaded, color-coded stainless steel sensor clamps with built-in super sensitive microphone in the tips for optimal sound detection
- Heavy-duty professional headphones block any unwanted sounds

### Mechanic's

#### MST100 Mechanic's Telescoping Stethoscope.

- Stainless steel shaft extends to a 36 1/2" overall length for easy access to hard-to-reach areas
- Aluminum sound chamber produces a more natural sound than plastic chambers
- Flexible tubing to ear piece aids positioning
- Rigid shaft extends, keeping hands away from heat and moving parts
- Soft comfortable ear piece is replaceable
- Comfortable soft grip handle
- Probe reverses to fit inside chamber for safe, compact storage
- Length closed with probe reversed (11")
- Length closed (15")
- Length extended (36 1/2")

#### GA111D Mechanic's Stethoscope.

- Locates any engine sound such as bearing noise, knocks, squeaks in fan or water pump, and valve tappets
- Sound amplifying diaphragm and a 12" probe to locate trouble

# TESTING AND ELECTRONICS

## Infrared Thermometers

These infrared thermometers safely monitor hot, hazardous or hard to reach materials without contamination or damage to the surface. Simply point at target, pull the trigger read the temperature on the large, backlit LCD display.

### Applications:

- Pinpointing radiator core restrictions
- Checking exhaust and emission control problems
- Measuring catalytic converter temperatures
- Diagnosing exhaust manifolds for combustion problems
- Measuring tire temperatures
- Measuring race track temperatures
- Measuring bearing, rotor, drum or brake temperatures for potential problems
- HVAC-Use for temperature room balancing, check supply/return registers duct work, monitor steam traps, furnace performance plus use in energy audits
- Check bearing, rotor, brake and drum temperatures
- Food Safety-Perform HACCP temperature measurements at receiving docks, take cooking temperatures, check hot and holding temperatures, ensure storage temperatures on freezers, ovens and ranges



Features	RTEMPB4	RTEMPB120	RTEMPB3A	RTEMPB2A
Temperature Range	-67° to 428°F (-55° to 220°C)	-7° to 248°F (-22° to 120°C)	-58° to 932°F (-20° to 500°C)	0° to 500°F (-18° to 260°C)
Temperature Display	Selectable for °F or °C	Selectable for °F and °C	Selectable for °F and °C	1°F or .5°C
Response Time	0.5 Seconds	Less than 0.5 Seconds	0.5 Seconds	500 mSec, 95% Response
Emissivity	Adjustable, set to 0.95	Pre-Set 0.95	0.98	Pre-Set 0.95
Power	3 V Lithium (Included)	CR2032 Battery	9 V Alkaline or NiCad Battery	9 V Alkaline or NiCad Battery
Accuracy	±2% of Reading	2% of Reading or ±3.5°F, whichever is greater	±2% of Reading or ±2°C (±4°F)	±2% of Reading or ±2°C (±3.5°F)
Distance To Spot Ratio	1:1	1.3:1	12:1	6:1
Ambient Operating Range	32° to 104°F (0° to 40°C)	32° to 104°F (0° to 40°C)	32° to 105°F	32° to 120°F (0° to 50°C)
Protective Case			Storage Case	Optional (RTEMPBPK)



Features	RTEMPB5	RTEMP25PB	RTEMP30PBA	RTEMP60PBA
Temperature Range	-76° to 1,400°F (-60° to 760°C)	-25° to 999°F (-32° to 535°C)	-32° to 545°C (-25° to 950°F)	-32° to 600°C (-25° to 1,100°F)
Temperature Display	Selectable for °F and °C	Selectable for °F and °C	0.2°C (0.5°F)	0.2°C (0.5°F)
Response Time	1 Second	Greater Than 0.5 Seconds (95% of Reading)	500 mSec.	500 mSec.
Emissivity	Adjustable, set to 0.95	Pre-Set 0.95	Pre-Set 0.95	0.1 to 1.0 Digitally Adjustable
Power	(2) AAA Batteries	9V Alkaline or NiCad Battery	9V Alkaline or NiCad Battery	9V Alkaline or NiCad Battery
Accuracy	±1% of Reading	(-25 to -15°F/-32 to -26°C) ±5°F (±3°C) (-15 to -0°F/-26 to -18°C) ±4°F (±2.5°C) (0 to 73°F/-18 to 23°C) ±3°F (±2°C) (73 to 950°F/23 to 510°C) ±1% of Reading or ±2°F (±1°C) whichever is greater (Above 950°F/510°C) ±1.5% of Reading	±1% of Reading or ±1°C (±2°F)	±1% of Reading or ±1°C (±2°F)
Distance To Spot Ratio	30:1	Optimized for use at 8"; Approx. 16:1 at Focus Point	12:1	30:1
Ambient Operating Range	32° to 104°F (0° to 40°C)	32° to 120°F (0° to 50°C)	0° to 50°C (32° to 120°F)	0° to 50°C (32° to 120°F)
Protective Case	Storage Case	Storage Case	Protective Hard Case	Protective Hard Case

**RTEMPBPK Carrying Case.** Rugged and compact carrying case with wrist strap (optional).

**RTEMP60EX Contact Probe.** Optional contact probe for RTEMP60PBA infrared thermometer.



**WARNING**



• Read safety precautions on pages 594 to 597

# TESTING AND ELECTRONICS

## Tachometers



**EEDMTACH1**

### EEDMTACH1 Digital Tachometer.

- Combination contact/non-contact tachometer with Minimum (MIN), Maximum (MAX) and LAST or current reading
- Non-contact operation uses photoelectric sensor and reflective tape (included)
- Contact measurements are taken with 1 of 3 contact adaptors; cone, concave wheel or large wheel
- Current data will remain until the next reading is taken
- Memory figures will remain until the next recorded reading is taken

#### Ranges:

Photo Tach: 5 - 30,000 RPM  
 Contact Tach: 0.5 - 19,999 RPM  
 Surface Speed: 0.2 - 6,560 ft/min or 0.5 - 1,999 m/min

### MTTACH1A1 Photo Tape.

Reflective photo tape for the EEDMTACH1 Tachometer.



contact adaptors



**EEDMRPM500**



**EEDMRPMD500**

### EEDMRPM500 Digital Tachometer (Gas Engines).

- Use to digitally read RPM on single cylinder, 2 or 4 stroke gas engines
- Choose between 2 or 4 stroke engines and 1 or 2 spark ignition systems
- Unit provides MIN/MAX readings with 8 storage locations to save readings for future reference
- Range is 300 to 10,000 RPM
- Powered by 9V battery (included)
- Overall dimensions are 2 3/4" x 5 3/4" x 1"

### EEDMRPMD500 Diesel Engine Adaptor.

- Optional diesel engine adaptor for the EEDMRPM500 digital tachometer
- Use on diesel engines only
- Range is 300 to 6,000 RPM



**MT257B**

## Diesel Timing Meter

### MT257B Diesel Pulse Adaptor Blue-Point®.

- Test injector timing or engine RPM on diesel engines equipped with 1/4" or 6mm external steel fuel injector lines
- Enables use with inductive pick up timing light to test engine timing
- Not for use on diesels with common rail fuel systems

## Timing Lights



**EETL500**



**EETL5568**



**MT125A**

### EETL500 - Timing Light and Ignition System Analyzer

- Diagnose ignition system drivability problems
- Inspect and adjust ignition timing on conventional, DIS and aftermarket ignition systems with digital display
- View Tachometer readings (249-9,999 RPM), adjust Dwell settings (0° to 180° / 2-12 cyl.) and set base ignition timing and overall advance / retard (0° to 90°)
- Measure the minimum and maximum firing kV (Kilovolts) on each cylinder and view the spark burn time in ms (milliseconds) of each ignition event
- Quickly inspect the condition of the battery and charging system by observing the status of the red, yellow and green LEDs

### EETL5568 Digital Timing Light Blue-Point.

- Multi function timing light works on all distributorless and conventional ignition systems
- Skip circuitry tests tachometer readings up to 9,900 RPM
- View, set and adjust ignition advance and retard from 0° to 90°
- Measure and adjust ignition dwell from 0° to 180° / 2-12 cylinders
- Measure battery and charging voltage from 10 to 16 Volts
- Dual display backlit screen allows clear viewing of tachometer and ignition advance reading
- Pivoting barrel allows easy access and a clear view to ignition timing marks

### MT125A Self Powered Timing Light.

- Self powered timing light features a single 6" inductive pick up
- Quick attachment to spark plug wires on motorcycles, marine motors, snowmobiles, jet skis, small engines and other equipment that do not have easy access to a battery power source
- Can be used for automotive applications as well
- On/Off switch is located within thumb reach





YA960

YA961

### Computer Memory Savers

#### YA960 Computer Memory Saver.

- Prevents memory loss on digital radios, clocks, door locks, and computers when disconnecting vehicle battery
- Plugs into cigarette lighter socket
- Uses a 9V battery to keep "memories" alive for up to four continuous hours
- Use YA961 on Chrysler products

#### YA961 Computer Memory Saver.

- Similar in function to YA960 except its power source is any 120VAC outlet
- Will work on all vehicles



TLM12AO

#### TLM12AO Computer Memory Saver.

- Saves computer memory on clocks, radio settings and fuel injection systems
- Simply plug into cigarette lighter, then attach battery clamps to spare battery

#### EECS5MEM OBDII Memory Cord, 5.

- Use in conjunction with a jump starter to preserve vehicle codes and electronic presets while a vehicle's battery is disconnected
- Turns any jump starter with a 12V power port into a memory saver
- Interface connector between a jump starter and a vehicle's OBD II port
- Prevents electronic memory loss when disconnecting a vehicle's battery
- LED confirms a proper connection has been made to OBD II port



EECS5MEM



YAGM1

### Service Light/Airbag Resetting Tools

#### YAGM1 Air Bag Release Tool.

- Tool will quickly and easily release the retention springs for the removal of the SIR module on certain late model GM vehicles
- Applications include Cadillac, Buick Park Avenue, Pontiac Grand Am, minivans and trucks



FZ4B



YA9811



FZ7A



GMSTB25

### Fuse Tools

**FZ4B Fuse Tongs.** Delrin tongs pull fuses up to 15/16" in diameter. A 1/8" hook on the handle pulls short fuses. Tongs have high insulating qualities and are resistant to oil, water and heat up to 300°F. Hand stops prevent slipping.

**FZ7A Fuse Tongs.** Nylon tongs remove auto high tension wires and pull cartridge fuses from 15/16" to 1" in diameter. Has hooks on handles and jaws. Tongs have high insulating qualities and are resistant to oil, water and heat up to 300°F. Hand stops prevent slipping.

**YA9811 Relay/Fuse Pliers.** Remove/install relays and fusible links. Designed to reach into confined access areas. Features convenient slip joint design to enable use for a variety of sizes. Coated pliers tip securely grips corner of relay or fusible link. Black industrial finish with red cushioned grip handles. 8" in length.

### GM Multi-function Switch Tools

**GMSTB25 GM Multi Function Switch Tool.** Reduces the time it takes to replace the multifunction switch (turn signal/dimmer/windshield wiper switch). Tool includes a low profile 1/4" bit wrench with a T25 Ball Torx® bit that allows better control and access in restricted areas. Conveniently remove/install the multifunction switch on GM vehicles. Allows the multifunction switch to be removed and installed without removing the air bag, steering wheel, and clock spring. Reversible ratchet action speeds tightening/loosening. Heat treated for strength and durability. Chrome plated for great appearance and wear resistance. Magnetic bit retention to allow for easy replacement of bits. Please visit [www.snapon.com](http://www.snapon.com) for the full application listing.

## Terminal Tools

**GA500A Wire Terminal Tool Blue-Point®.** Removes flat and round wires from terminal blocks without damage. 6 stations fit most sizes.

**YA500GM Wire Terminal Tool.** Services wire connectors on computer-controlled GM vehicles and most AMC products.

**YA13120 Electrical Connector Separator.** Disconnect electrical connectors without damage. Double ended to fit different access angles. Easy to use. Simply engage the tool tip behind the connector clip and push or pull to disconnect. Works on weather pack and other automotive electrical connectors.



GA500A



YA500GM



YA13120



**WARNING**



• Read safety precautions on pages 594 to 597

# FUEL AND ENGINE SYSTEMS

## Electrical



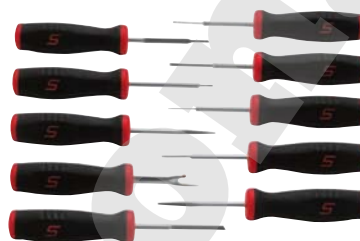
TT600



TT12KT



SGTT106A



SGTT110

### Terminal Tools

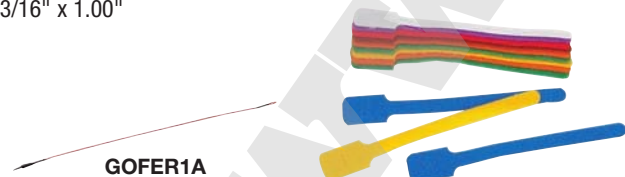
**TT600 Terminal Tool Kit.** Includes 6 tools for removing terminals from harness blocks: pin vise, square probe, wedge probe, tube probe, flat probe, and hook probe. Tools come in a vinyl pouch.

**TT12KT GM C3/Wire Terminal Tool Kit.** Applications include most GM and other domestic computer connectors and terminals. Individual handles for easy access in tight places. Designed for weather pack and pack-con terminals with flat blade to open connectors and fork for ALDL connectors to access trouble codes. Color coded: Red handle for GM and Green for wire terminal tools. Includes molded storage case.

TT1201 3.3MM X 28MM terminal tool  
TT1202 1.4MM X 28MM square terminal tool  
TT1203 1.5MM X 24.75MM flat terminal tool  
TT1204 2.0MM X 22MM flat terminal tool  
TT1205 8.0MM X 24MM fork terminal tool  
TT1206 3/16IN X 1.0IN flat screwdriver  
TT1207 3.3MM X 28MM tube terminal tool  
TT1208 4.3MM X 13MM tube terminal tool  
TT1209 3.75MM X 13MM tube terminal tool  
TT1210 3MM X 13MM tube terminal  
TT1211 3MM flat 2 blade terminal tool  
TT1212 1.6MM flat 2 blade terminal tool  
TT1213 blow molded case

Kit includes these GM C3 System terminal tools (red handle):  
tube, spring loaded, 3.3 x 28mm  
square blade, 1.4 x 19.00mm  
flat blade, 1.5 x 24.75mm  
flat blade, 2.0 x 23.00mm  
fork blade, 8.0 x 24.00mm  
flat blade screwdriver,  
3/16" x 1.00"

Kit includes these wire terminal tools (green handle):  
tube, 3.30 x 28.0mm  
tube, 4.30 x 13.0mm  
tube, 3.75 x 13.0mm  
tube, 3.00 x 13.0mm  
flat twin blade, 3.0mm  
flat twin blade, 1.6mm



GOFER1A

GOFER4A

### Wire Installation Tools

**GOFER1A Wire Installation Tool.** Designed for quick installation of wires for stereo systems, alarm systems, cellular phones, vacuum hoses and air shock supply lines. Conical shaped collet provides secure wire retention when threading wires. Will push or pull wires through openings.

**GOFER4A Holding Straps.** 1/2" wide by 8" long Velcro® fastening holding straps. Use to organize and hang tools in the shop, or to separate or retain hoses or wires during engine service. Also helpful for sorting wiring during test, for holding scope or meter leads together, or a multitude of other applications. 12 straps included in 8 different colors.

### Soft Grip Terminal Tools

Easily remove terminals from electrical connectors found on mid-1990s and later domestic and import vehicles. Terminal tools incorporate a stainless steel design with ergonomic soft grip handles.

**SGTT1A Soft Grip Terminal Tool.** Use on PCM and transmission harnesses found on Chrysler, Hyundai, Kia and Mitsubishi. 4 13/16" long.

**SGTT2A Soft Grip Terminal Tool.** Provides robust narrow width blade with fulcrum for easier access to release tabs found on newer terminal blocks. General purpose release tool for domestic and import vehicles. 5 1/8" long.

**SGTT3A Soft Grip Terminal Tool.** Use on underhood sensors such as coolant temperature and throttle position sensors. For use on Ford, GM (including Cadillac), Chrysler, Mitsubishi and Hyundai. 4 13/16" long.

**SGTT4A Soft Grip Terminal Tool.** Use for cutting open wire harnesses for easy access to troubleshooting and replacement applications. Easily slits harness sheathing without piercing the wires inside. 4 3/8" long.

**SGTT5A Soft Grip Terminal Tool.** Use on 55 pin ABS ECU s found on Ford, GM, Jaguar, Jeep, Volvo, VW, BMW, Hyundai, Kia and Mercedes. 4 13/16" long.

**SGTT6A Soft Grip Terminal Tool.** Use on 35 pin ABS ECU s found on Audi, BMW, Chrysler, Ford, GM, Infiniti, Isuzu, Jaguar, Mazda, Mercedes, Mitsubishi, Nissan, Porsche, Subaru, Saab, Volvo and VW. 4 13/16" long.

**SGTT7 Soft Grip Terminal Tool.** Applications: Powertrain Control Modules (PCM) on Acura, Audi, Chrysler, Ford, Hyundai, Jaguar, Kia, Mercedes, Mazda, Toyota and Volkswagen. 4 27/32" long.

**SGTT8 Soft Grip Terminal Tool.** Applications: Powertrain Control Modules (PCM) on Acura, Audi, Buick, Chrysler, Ford, GM, Honda, Jaguar, Mercedes, Mazda, Toyota and Volkswagen. 4 27/32" long.

**SGTT9 Soft Grip Terminal Tool.** Applications: Powertrain Control Modules (PCM) on Acura, Audi, Chrysler, Jaguar, Hyundai, Kai, Mercedes, Toyota and Volkswagen. 4 27/32" long.

**SGTT10 Soft Grip Terminal Tool.** Applications: Open connector clips and sides of clips on Acura, Audi, Chrysler, Honda, Mercedes, and Volkswagen. 4 27/32" long.

**SGTT106A Soft Grip Terminal Tool Set.** Includes SGTT1A thru SGTT6A (6 pcs) in kit bag.

**SGTT110 Soft Grip Terminal Tool Set.** Includes SGTT1A thru SGTT10 (10 pcs) in storage tray.

# FUEL AND ENGINE SYSTEMS

## Compression Gauge Sets and Adaptors



MT308M



EEPV303B

### Compression Gauge Sets

- Intended for use on spark ignited gasoline engines that do not exceed 300 psi compression
- Uses hose adaptors that thread into the spark plug hole and connect at the gauge hose's quick coupler
- Maintains highest compression test reading and resets to zero with a push-button release valve
- Gauge displays individual cylinder pressure
- Test range: 0-300 psi (0-2,000 kPa) in 10 psi (50 kPa) increments

### MT308M Compression Gauge Set.

- Test late model cars and trucks with hard to access spark plug ports
- Gauge assembly includes 2 3/4" diameter gauge and 27" flexible hose with quick coupler

### EEPV303B Motorcycle Compression Gauge Set.

- Test motorcycles and recreational vehicles with hard-to-access spark plug ports
- Gauge assembly includes 2 3/4" diameter gauge and 18" flexible hose with quick coupler

### Compression Gauge Adaptors

- 10 1/4" length unless otherwise noted
- Standard reach applies to flat and tapered spark plug hole seats: long reach applies to servicing motorcycle engines



EEPV305A



MT26J300R



MT26J400



EEPV304A

### EEPV305A Compression Gauge Adaptor.

- Long reach (M10 x 1.0 pitch)

### MT26J300R Compression Gauge Adaptor.

- Long reach (M14 x 1.25 pitch)

### MT26J400 Compression Gauge Adaptor.

- Standard reach (M18 x 1.5 pitch)

### EEPV304A Compression Gauge Adaptor.

- Standard reach (M10 x 1.0 pitch)



MT26J200R



EAK0259L02A



EEPV306A



EEPV307A

### MT26J200R Compression Gauge Adaptor.

- Standard reach (M14 x 1.25 pitch)

### EAK0259L02A Compression Gauge Adaptor.

- Long reach (M16 x 1.5 pitch) for Ford 5.4L Triton™ engines
- 18" length

### EEPV306A Compression Gauge Adaptor.

- Long reach (M12 x 1.25 pitch)

### EEPV307A Compression Gauge Adaptor.

- Main application 2nd generation Ford Triton engines 2008 and later
- Tests cylinder compression up to 300 psi
- Additional applications include: Mercedes (most V6 and some V8 models newer than 2006), Nissan (2.0L 2007 and later) plus Toyota Scion (1.8L 2008 and later)

### Cone Type Compression Gauge

#### MT27C Cone Type Compression Gauge.

- Dial reads from 0 to 250 psi in 5 psi increments (0 to 1,700 kPa in 20 kPa increments) and is specially designed for Type I VW's
- Offset stem overcomes clearance problems
- Check valve located at bottom of unit to avoid interference with cooling shroud sheet metal

#### MT27BR Service Kit.

- Included with MT27C gauge
- Contains cone tip, valve, and sealing ring in drawstring bag



MT27C



**WARNING**



- Do not expose gasoline or fuel to flames, sparks or other sources of ignition
- Use only in well ventilated areas • Read safety precautions on pages 594 to 597



# FUEL AND ENGINE SYSTEMS

## Diesel Compression

### MT33C Diesel Compression Gauge.

- Dial reads from 9 to 800 psi and from 0 to 5,500 kPa
- Gauge includes 18" hose with release valve



MT33C

### Compression Adaptors - Injector Style

#### EEPV313A Diesel Compression Gauge Adaptor.

- For 1998 to 2002 Dodge 24 valve 5.9L Cummins plus 5.9L Cummins ISB and ISBE diesel engines

#### M3540A Compression Adaptor.

- For Cummins 855 cu. in. and NH 903 V8 L10 diesel engines

#### M3543A Diesel Compression Gauge Adaptor.

- For Detroit 53, 71, 92, and 8.2L diesels

#### M3542A Diesel Compression Gauge Adaptor.

- For Volkswagen, Mercedes-Benz, Volvo, and Audi 5000 diesel engines M24 x 2.0

#### M3571 Diesel Compression Gauge Adaptor.

- For 21mm injectors and Bosch type injectors on the following diesel engines: Allis Chalmers 433, 649, and 670, Allis/Fiat 3 cylinder, John Deere 404, 466, 531, and 619, Navistar 361 and 407, Perkins 4.203, 4.236, 4.248, 6.354, and 8.540, Wisconsin Engine 340, 350, 430, 660, 670, 750,860, and 1000, White Engine D2000, D2300, D3000, D3400, and D4800, Mack 673, 674, 675, 864, 865, and 866, Waukesha diesel engines, Ford Tractor diesel engines, Scania DN11 and DS11



EEPV313A



M3540A



M3543A



M3542A



M3571



M3572



M3574



M3584



M3585

#### M3572 Diesel Compression Gauge Adaptor.

- For pencil type injectors on the following diesel engines: Caterpillar 3208 and 1100 Series, Case 70 Series, 188 and 207, John Deere early 300, 400, and 500 Series, 276, 404, and 531

#### M3574 Diesel Compression Gauge Adaptor.

- For 17mm injectors on Navistar DT466 and 9L, 312, 360, 414, 436, and 446 diesel engines

#### M3584 Compression Adaptor.

- For Case/Cummins Series B 2.9L, 3.9L, and 5.9L diesel engines

#### M3585 Compression Adaptor.

- For Case/Cummins Series C 8.3L engines



EEPV312A



EEPV314A



EEPV315A



EEPV317A



M3545B



M3569



M3570



M3564



M3565A



M3566



M3576

### Compression Adaptors - Glow Plug Style

- All M series glow plug style adaptors plus the EEPV312A adaptor require the use of either the M3569 or M3570 quick coupler
- EEPV314A, EEPV315A and EEPV317A do not require the use of a quick coupler

#### EEPV312A Glow Plug Compression Adaptor.

- For GM Duramax 6600 and Isuzu 6.6L diesel engines

#### EEPV314A Glow Plug Compression Adaptor.

- For Ford / Navistar 7.3L Powerstroke diesel engines

#### EEPV315A Glow Plug Compression Adaptor.

- For Volkswagen 1.9L TDI diesel engines

#### EEPV317A Glow Plug Compression Adaptor.

- For Ford Powerstroke 6.0L and Navistar/International 6.0L VT365E engines with 14M x 1.25 glow plug size

#### M3545B Glow Plug Compression Adaptor.

- For GM 4.3L and 5.7L plus Navistar 6.9L and 7.3L diesel engines
- Replacement valve core is M3545A4
- Must be used in conjunction with MT33C compression gauge and M3569 or M3570 quick couplers

#### M3569 Quick Coupler.

- 45° offset

#### M3570 Quick Coupler.

- 90° offset

#### M3564 Glow Plug Compression Adaptor.

- For GM 6.2L and 6.5L diesel engines

#### M3565A Glow Plug Compression Adaptor.

- For Isuzu 1.8L and 2.2L diesel engines and Toyota 1.8L diesel engine

#### M3566 Glow Plug Compression Adaptor.

- For Toyota and Nissan 2.2L diesel engines, plus Mitsubishi 2 and 3 cylinder engines

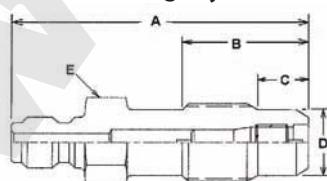
#### M3576 Glow Plug Compression Adaptor.

- For BMW 2.4L engines used in 1984 and 1985 Lincoln, Mark VII, and Continental models; Peugeot 1978 to 1984, 2.0L and 2.3L engines; VW, Audi, and Volvo 1.5L, 1.6L, 2.0L, and 2.6L engines

## Adaptors

Stock No.	Thread	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	E (Hex)
EEPV312A	M10 X 1.25	4.12 (104.65)	3.00 (76.20)	2.50 (63.50)	.320 (8.13)	12mm
EEPV314A	M10 X 1.0	3.33 (84.58)	2.78 (70.61)	2.31 (58.67)	.315 (8.00)	10mm
EEPV315A	M10 X 1.0	2.05 (52.07)	1.50 (38.10)	1.03 (26.16)	.315 (8.00)	10mm
M3545B	M10 X 1.0	1.78 (45.20)	1.06 (26.92)	.38 (9.65)	.385 (9.77)	3/8 in.
M3564	M10 X 1.0	2.46 (62.48)	.79 (20.00)	.25 (6.35)	.325 (8.25)	3/8 in.
M3565A	M10 X 1.25	2.50 (63.50)	1.61 (26.92)	.866 (21.99)	.320 (8.13)	12mm
M3566	M10 X 1.25	1.96 (49.78)	1.27 (32.26)	.39 (9.14)	.315 (8.00)	12mm
M3576	M12 X 1.25	1.77 (44.95)	1.08 (27.43)	.300 (7.62)	.305 (7.75)	12mm
M3577	M10 X 1.25	2.19 (55.62)	1.50 (38.10)	.59 (14.98)	.317 (8.05)	12mm

### Glow Plug Style



# FUEL AND ENGINE SYSTEMS

## Cylinder Leakage/Engine Vacuum Gauges and Tester



EEPV309A

### EEPV309A Cylinder Leakage Tester.

- Use on all domestic and import engines
- Input pressure gauge displays input air pressure for proper cylinder leakage test set up and accurate results
- Pressure gauge range is 0-100 psi (0-700 kPa) in 2 psi (20 kPa) increments
- Cylinder leakage gauge displays leakage as a percentage of input pressure with three distinctive zones of high, moderate and low



EEPV308A

### EEPV308A Automatic Transmission Pressure Gauge Set.

- Use on all major manufacturer domestic and import vehicles
- Set includes two gauge assemblies for high and low pressure ranges plus 9 adaptors to test a wide variety of automatic transmissions
- Four special fittings are also included for connection to hard-to-reach test ports in areas requiring a 45° or 90° angle high pressure gauge (0-500 psi/0-3,500 kPa over pressure protected to 1,500 psi) assembly includes 3 1/2" diameter gauge and 10" flexible hose with fluid coupler
- Low pressure gauge (0-100 psi) assembly includes 2 1/2" diameter gauge and 6 flexible hose with fluid coupler

### EEPV311A Vacuum Pressure Gauge Set.

- Use for almost all basic vacuum pressure testing needs in the shop
- Perform engine vacuum tests on gasoline engines as well as exhaust back pressure tests on applications with an oxygen sensor
- Test vacuum accessories and emission control devices such as EGR valves canister purge systems, air switching and divert valves, vacuum delay and check valves, heater and A/C controls and cruise control systems
- Multi-color gauge face with scales of in., Hg., psi, negative kPa and positive kPa



EEPV311A



MT37A

### MT37A Oil Pressure Gauge Set.

- Use on diesel and gasoline engines
  - Includes standard and metric adaptors for most domestic and import cars, trucks, tractors and stationary engines
  - Features bright, easy to read gauge with green protective boot
  - Includes: 0-100 psi (0-700 kPa) gauge assembly
- |                                 |                               |
|---------------------------------|-------------------------------|
| Hose Assembly                   | Adaptor (1/8-27 to M12 x 1.5) |
| Adaptor (1/8-27 to 1/4-18)      | Adaptor (1/8-27 to M14 x 1.5) |
| Adaptor (1/8-27 to 3/8-18)      | Street Elbow                  |
| Adaptor (1/8-27 to 1/8-28 BSPT) | 2" Large Nipple               |
| Adaptor (1/8-27 to M10 x 1.0)   | Coupling                      |

## Vacuum Pumps and Testers

### YA4000B Automotive Test Kit Blue-Point®

- Produces vacuum or pressure at the turn of a switch
  - Comfortable ergonomic design
  - One-finger trigger vacuum/pressure release
  - Durable, accurate diaphragm style pressure/vacuum gauge
- Includes:
- Hand held vacuum/pressure pump with 2" compound gauge and rubber boot
  - 12 oz. fluid reservoir bottle with fluid transfer and storage lids plus fluid pick-up tube
  - 6 tapered adaptors for connecting to tubing from .09" to 1/2" ID, rubber cupped adaptor
  - 2 tapered manifold plugs
  - 2 universal bleed screw adaptors
  - 12 vacuum cap plugs, vacuum line T-adaptor
  - (2) 1/4" ID x 24" long connection tubes with quick-change connector
  - 5/32" ID x 1/4" D tubing adaptor
  - 5/32" ID x 3" long vacuum test tube
  - Master cylinder refill kit



YA4000B

### Applications:

- Vacuum and pressure related engine performance diagnostics and tune-ups
- Brake bleeding
- Fluid transfer, evacuation, and sampling

### SVT270P Vacuum Pump and Gauge.

- Gauge reads 0 to 30" mercury (0 to 76 cm)
- Aluminum construction with reverse pistol grip for simple one hand operation
- Attaches directly to unit being tested or with one of its adaptors
- SVT270P1 storage case



SVT270P



**WARNING**



- Do not expose fuel or solvents to flames, sparks or other sources of ignition
- Use only in well ventilated areas • Read safety precautions on pages 594 to 597

# FUEL AND ENGINE SYSTEMS

## Fuel Injection



EEFI500



EEFI500CORE



EEFI50030



EEFI5CLEANER

### EEFI Series Adaptor Sets

#### EEFI500 Master Fuel Injection Pressure Gauge Set.

- Tests fuel injection pressure on major domestic, European and Asian model multiport fuel systems
- Convenient label shows image of components, part numbers and applications for quick, easy identification and storage
- User manual includes test connection illustrations and application charts
- Contains: tee manifold with shut-off valve, a 3 1/2" diameter gauge assembly with blow down valve and adaptors needed to test most fuel injection systems
- Case with removable lid allows for convenient storage in 4" deep drawer for easy access
- Includes EEFI500CORE and EEFI500ADD

#### EEFI500CORE Core Fuel Injection Pressure Gauge Set.

- For basic fuel injection pressure service needs
- Individual components or the EEFI500ADD set can be purchased to build up to master set
- Includes:
  - EEFI5001 gauge and hose assembly with bleed-off valve
  - EEFI5002 standard schrader hose assembly (Chrysler, GM, M-B, Porsche, Saab and Saturn)
  - EEFI5003 small schrader hose assembly (BMW, Ford, Jaguar, Kia, Lincoln, Mazda, Mercury, Mini, Volvo and VW)
  - EEFI5004 standard schrader right angle adaptor (Chrysler, GM, M-B, Porsche, Saab and Saturn)
  - EEFI5005 small schrader right angle adaptor (BMW, Ford, Jaguar, Kia, Lincoln, Mazda, Mercury, Mini, VW and Volvo)
  - EEFI5006 TEE adaptor with 1/4", 5/16" and 3/8" diameter hoses and clamps (Chrysler, Infiniti, Isuzu, Mazda, Nissan, Saturn and Suzuki)
  - EEFI5006-1 replacement hoses and clamps
  - EEFI5007 spare parts service kit for EEFI5001 thru EEFI5006

#### EEFI500ADD Set

- Combine the components of the EEFI500ADD set with the EEFI500CORE set to form the EEFI500 master fuel injection pressure gauge set

#### EEFI50030 Universal Fuel Pressure Adaptor.

- Allows owners of MT337, EEFI301 and EEFI307 series fuel pressure gauges to increase applications by using components from the EEFI500 master fuel injection pressure set

Stock No.	Description
EEFI5008	Tee Hose Assembly - 3/8" Quick Connect
EEFI5009	3/8" Quick Connect Double Male - GM
EEFI50010	5/8" Spring Lock Male - Ford, Mazda
EEFI50011	5/8" Spring Lock Female - Ford, Mazda
EEFI50012	5/16" Quick Connect Male - Acura, Chrysler, Ford, Mazda, Toyota
EEFI50013	5/16" Quick Connect Female - Acura, Chrysler, Ford, Mazda, Toyota
EEFI50014	5/16" Male Hose Adaptor- BMW, Chrysler, Infiniti, Nissan, VW
EEFI50015	5/16" Hose Adaptor- BMW, Chrysler, Infiniti, Nissan, VW
EEFI50016	M14 x 1.5 Inverted Flare Male- Geo, Infiniti, Toyota
EEFI50017	M14 x 1.5 Inverted Flare Female- Geo, Infiniti, Toyota
EEFI50018	M14 x 1.5 Ball Seat Female- Audi, Hyundai, Jaguar, Land Rover, Porsche, Volvo, VW
EEFI50019	M14 x 1.5 Ball Seat Male- Audi, Hyundai, Jaguar, Land Rover, Porsche, Volvo, VW
EEFI50020	16mm O-Ring Adaptor- Hyundai, Mitsubishi
EEFI50021	11mm O-Ring Adaptor- Infiniti, Kia, Mitsubishi, Nissan
EEFI50022	M12 x 1.0 Pulse Dampener Adaptor- Acura, Honda
EEFI50023	M12 x 1.5 Banjo Bolt Adaptor- Audi, Porsche, Saab
EEFI50024	M12 x 1.25 Banjo Bolt Adaptor- Honda, Hyundai, Isuzu, Lexus, Toyota
EEFI50025	M6 x 1.0 Filter Adaptor- Acura, Honda
EEFI50026	Spare part service kit for 5009 thru 50025 adaptors

### General Purpose Fuel System Cleaners

#### EEFI5CLEANER Fuel Injection System Cleaner.

- Cleans deposits from fuel injectors, fuel rail and intake valves to restore engine performance, lower emissions and smooth idle
- Canister-style cleaner accepts preferred or required fuel injection system cleaner (sold separately)
- Check vehicle fuel pressure with right hand gauge and easily set cleaning pressure with the left hand gauge
- Stainless steel braided Teflon® hose resists solvents
- Conveniently hangs under hood with center chain
- Compatible with EEFI500 series adaptors (sold separately)
- See user manual for vehicle make details



## Fuel Systems

### Specialty Service Tools

#### FIH500 Fuel Module Disconnect Tool.

- GM fuel module disconnect tool for 1998 and later GM full size pickups, Suburbans and Tahoes
- Two piece design permits easy access to the connectors
- Slide proper end into the connector, rotate and slide the other half in place to disconnect module
- Fits both 3/8" and 5/16" connector sizes
- Tool segments can be clipped together for convenient storage



FIH500

**TECHNICAL SUPPORT**  
1-800-342-5080

#### YA76462 Universal EFI Quick Probe.

- Quickly detects electronic fuel injector functions on any gas or diesel engine
- Specifically designed to detect vibrations emitted when electronic injector fires
- No hunting for injector wires to test at connector
- No need to remove injector for testing
- Includes: bright LED strobe, 7" removable probe tip, user guide, battery operation and sensitivity thumb-wheel



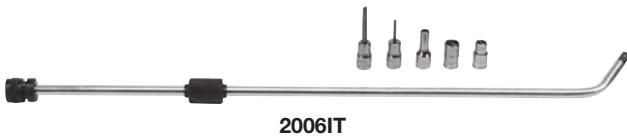
YA76462

## Carburetor

### Carburetor Adjustment Tools

#### 2006IT Carburetor Adjusting Set.

Includes: S6137E, S6138E, S6139, TM64, TM83A, TM85



2006IT

#### S6137E Idle Adjusting Hex Head Driver.

- For 1978 and later Chrysler
- 3/32" hex driver is 1 9/16" long
- Nickel/chrome finish socket,
- 7/16" OD
- 1/4" drive industrial finish bit

#### S6138E Idle Adjusting Driver.

- For Ford feedback carburetors
- 7/16" OD
- 1/4" drive
- Bit has a 3/16" x 1/32" flat tip, 2" long
- Nickel/chrome finish socket, industrial finish bit

#### S6139 Double D Carburetor Adjusting Socket.

- For 1978 and later GM idle adjusting screw
- 3.5mm across flats
- OD drive end is 7/16"
- 1/4" drive
- Nickel/chrome finish
- 13/16" long

#### TM64 Rigid Adjusting Tool.

- Rigid elbow bend rather than flexible feature
- Use with carburetor drivers for making carburetor and point adjustments
- Rigid shaft
- Overall length is 18 1/4", 1/4" drive

#### TM65 Flexible Adjusting Tool.

- Flexible shaft end for working in restricted areas
- Overall length is 19 3/4", 1/4" drive
- Ideal for working in tight spaces when servicing window-type distributors
- Knob markings allow for counting turns



S6137E



S6138E



S6139

#### TM615 Flexible Driver.

- 1/4" drive
- Designed for carburetor work, this driver can also access buried distributors
- 1/4" drive at the end of a tough but flexible spring steel shank
- 18 5/8" long
- For low torque applications
- Ideal to access buried adjusting screws
- Cable length is 15"; overall length is 18 5/8"

#### TM83A Recessed Blade Carburetor Screwdriver.

- 1/4" drive
- Use with TM64 or TM65 and other 1/4" square drive handles
- Blades are recessed in outer socket wall to self center
- Nickel/chrome finish
- 3/8" x 1/32" blade

#### TM84 Recessed Blade Carburetor Screwdriver.

- 1/4" drive
- Use with TM64 or TM65 and other 1/4" square drive handles
- Blades are recessed in outer socket wall to self center
- Nickel/chrome finish
- 7/16" x 1/32" blade

#### TM85 Recessed Blade Carburetor Screwdriver.

- 1/4" drive
- Use with TM64 or TM65 and other 1/4" square drive handles
- Blades are recessed in outer socket wall to self center
- Nickel-chrome finish
- 9/32" x 1/32" blade for adjusting late model Quadrajet carburetors

#### TAM3E Metric Hex Head Driver.

- Use to make carbon monoxide adjustments on 1976 Dasher, 1974 to 1976 Audi and Volvo, and 1975 and 1976 Fiat and Saab
- 3mm bit size, 1/4" drive
- 6 7/8" long
- Nickel-chrome finish

#### GA467 Pin Puller.

- For removing or installing carburetor pins and for work with C clips
- Puller hook retracts into housing when not in use
- 6 13/16" long



TM64



TM65



TM615



TM83A



TM84



TM85



TAM3E



GA467

### Carburetor Service Tools

#### ACT1370 Disconnect Set.

- Convenient plastic holder included
- Useful on air-conditioning spring couplings as well as push lock connectors on radiator and transmission lines
- Includes 6 tools for disconnecting spring couplings on Ford, GM, and Chrysler air conditioning lines
- Works on fuel lines and can be used as push lock connectors on radiator and transmission lines
- Included sizes are 5/16", 3/8", 1/2", 5/8", 3/4" and 7/8"



ACT1370



**WARNING**



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages 594 to 597

# FUEL AND ENGINE SYSTEMS

## Fuel Systems



FID8838A

### Injector Harness Testers

#### FID8838A Injector Harness Tester Set.

- Plugs into solenoid harness to identify electrical or fuel system malfunctions
- Includes 8 testers and injector harness extension in a storage case

#### FID8320 Injector Harness Tester.

- Use on GM TBI models 100, 200, 220, 300, 400, and 500 used on various cars and trucks

#### FID8329 Injector Harness Tester.

- Use on Bosch PFI injectors used on various GM, Ford and Chrysler vehicles with PFI

#### FID8330 Injector Harness Tester.

- Use on Ford TBI systems

#### FID8339 Injector Harness Tester.

- Use on GM Multec 1 injectors and the bottom feed injectors used on 2.2L 4 cyl. J and L cars from 1989 to 1993

#### FID8340 Injector Harness Tester.

- Use on GM SCPI truck engines 4.3L V6, 5.0L V8, and 5.7L V8 (1996 and later) plus 4.8L V8, 5.3L V8, and 6.0L V8 (1999 and later)



YA997

FIH940

### Fuel Inlet/Fuel Filter/Fuel Pump Tools

#### YA997 Swivel Handle Fuel Filter Wrench.

- Designed to access hard to reach fuel filters
- Fits fuel filters 2 1/4" to 2 9/16"

#### FIH940 Gas Tank Fuel Pump Removal Tool.

- Removes plastic fuel pump retaining rings
- Universal adjustable design fits most plastic retaining rings
- Prevents damage to original pump retaining ring
- Use with 1/2" drive extension and ratchet
- Use to reinstall old retaining ring

#### FID9210 Injector Harness Tester.

- Designed for Geo TBI systems (1992 and later)

#### FID8838A1 Injector Harness Tester.

- Use on GM Multec 2 injectors found in 1999 and later 2.4L 4 cylinder engines in Oldsmobile Intrigue and Cutlass, Chevrolet Cavalier and Malibu and Pontiac Sunfire

#### FID8838A2 Injector Harness Tester.

- Use on Bosch 2 injectors used in 2000 and later Cadillac 4.6L V8 engines and Oldsmobile 4.0L V8 engines

#### FID8838A3 Injector Harness Extension.

- Injector harness extension line for all FID series injector harness testers
- Use when injector is in a lower position in manifold or cylinder head

#### FID8838A4 Plastic Case.

- Storage case for the FID8838A injector harness tester set

## Shut offs/Hose Pinching Pliers–Blue-Point®



YA965



HCP7A



YA2850A



HCP10A



HCP6A



FPP17

#### YA965 Hose Pinching Pliers.

- Eliminates need to drain cooling system when repairing thermostat or water pump
- Use to pinch off emission control hoses, flexible brake lines, and rubber hose fuel lines
- Jaws swivel for positive clamping

#### YA2850A Hose Pinchers.

- For diagnosing problems that require rubber or plastic fuel, vacuum, and air lines to be temporarily closed
- Effectively seals lines without disconnecting
- Set of 2

#### HCP6A Hose Pinching Pliers.

- For sealing hose sizes 1/8" to 5/16"
- Also use on brake lines, fuel lines and vacuum hoses
- 6" long

#### HCP7A Hose Pinching Pliers.

- For sealing hose sizes 1/2" to 3/4"
- Also use on heater hoses and vacuum lines
- 7" long

#### HCP10A Hose Pinching Pliers.

- For sealing hose sizes 3/4" to 2 1/4"
- Also use on radiator hoses
- 10" long

#### HCP3KT Hose Pinching Pliers Set.

- HCP6A, HCP7A and HCP10A (6", 7", 10") in storage pouch

#### FPP17 Hose Pinching Pliers.

- Ideal for truck/tractor applications
- Quickly and easily pinch off difficult to reach vacuum lines, water hoses, etc.
- 17" semi rigid shaft allows prepositioned, one hand use
- Heavy duty steel clamp sleeves are heat treated to 48-52 RC to provide strong clamping
- Fine tooth ratchet allows precision clamping and locks into place for ease of use
- Pull bar and thumb lock made of high carbon steel for extended tool life
- 2 1/4" jaw opening for use in a wide range of applications

### Fuel Line Disconnect Tools

#### Fuel Line Coupling Release Tool Sets.

- Designed to service special quick connect couplings found on fuel feed and return lines located at the engine

#### FIH9055 Fuel Line Coupling Release Tool Set.

Includes a **FIH9055-1** (5/16") and a **FIH9055-2** (3/8") tool for GM fuel lines.

**FIH9056 Fuel Line Coupling Release Tool Set.** Includes **FIH9056-1** (1/2") and **FIH9056-2** (5/8") for fuel and air conditioning quick connect couplers on most late model Ford and Mazda Navajo vehicles.

#### YA9457 Fuel Line Disconnect Tool Set.

- Designed for reach and access to fuel line couplers
- Use on GM Cadillac Northstar engines (1993 and later) and Ford E and F Series trucks (1991 and later)
- Includes **YA9457-1** (5/16") and **YA9457-2** (3/8")

#### LDTF2 Fuel Line Disconnect Tool.

- Disconnect the fuel line from the fuel filter on 5.3 liter Suburban, Tahoe, Yukon, Avalanche plus select Silverados and Sierras
- Can be used on other Flex Fuel systems

#### LDT8 Master Disconnect Set.

- For spring lock and quick disconnect couplings used on air conditioning and fuel lines on Ford, GM and Chrysler vehicles

#### LDT6 Disconnect Set.

- Disconnects air conditioning, quick connect fuel lines and spring lock couplings on Ford and Chrysler AC lines
- Works on fuel lines and other quick disconnect couplings on domestic and import vehicles
- Angled to access tight spots
- Durable plastic resists fuels and solvents
- Includes 6 sizes from 1/2" to 7/8"

#### LDT14 Master Plus Disconnect Set.

- Contains all the tools in the LDT8 master disconnect set
- The 3/8" and 1/2" Jiffy-Tite disconnect tools from the LDTSP4 set
- The blue 5/16" fuel line adaptor from the LDTF2 fuel line disconnect set
- A set of 4 air line push-pull disconnect tools that work on heavy duty trucks and industrial applications
- Label inside cover of carrying case shows images and applications



FIH9055



YA9457



FIH9056



LDTF2



LDT6



LDT8



LDT14



LW11



LW204

### Fuel Line Wrenches

- Spring-Torque provides tighter grip on fitting with increased force on the wrench (up to 2 times ANSI Standards)
- Removes even the most worn brake and fuel fittings
- Works where other flare nut wrenches fail
- Easy access to tight areas where fittings are found
- Fits over 90% domestic and import vehicles
- Compact fold-out chrome molybdenum wrench heads with black oxide finish

**LW10 Fuel/Brake Line Wrench.** 10mm (3/8").

**LW11 Fuel/Brake Line Wrench.** 11mm (7/16").

**LW1213 Fuel/Brake Line Wrench.** 12/13mm (1/2").

**LW14 Fuel/Brake Line Wrench.** 14mm (9/16").

**LW204 Fuel/Brake Line Wrench.**

- Includes LW10, LW11, LW1213 and LW14 (10mm thru 14mm, 3/8" thru 9/16") (4 pcs) in foam storage tray



**WARNING**



• Read safety precautions on pages 594 to 597



# FUEL AND ENGINE SYSTEMS

## Fuel Systems

### U.S. Distributor Wrenches

Stock No.	Wrench Size, inches
<b>S8564B</b>	1/2
<b>S9707</b>	1/2
<b>M3515</b>	9/16
<b>S8176</b>	9/16
<b>S9609</b>	9/16
<b>S9622</b>	9/16
<b>S9626</b>	9/16

#### S8564B Distributor Wrench.

- Ford, Lincoln and Mercury engines; clears leads and coils

#### S9707 Distributor Wrench.

- Ford, Mercury and Cadillac engines

#### M3515 Distributor Wrench.

- GM V6 and V8 trucks

#### S8176 Distributor Wrench.

- Pontiac and Oldsmobile engines

#### S9609 Distributor Wrench.

- Chevrolet V8 engines

#### S9622 Distributor Wrench.

- 1977 and later full size GM cars with V8 engines

#### S9626 Distributor Wrench.

- GM V6 engines



S8564B



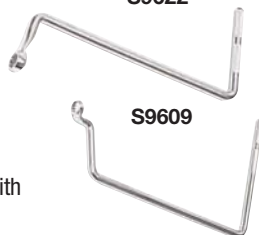
S9707



S8176



S9622



S9609



S9626

### Metric Distributor Wrenches

#### S6134 Metric Distributor Wrench.

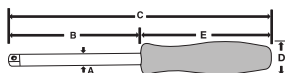
- 1982 and later Cadillac 4.1L V8 engines, GM 2.8L V6 engines, and 1985 VW Golf
- 15mm



S6134



TM63A



### Drivers

Stock No.	A	B	C
<b>TM63A</b>	1/4	4 21/32	9 3/16

#### TM63A Flexible Driver.

- 1/4" drive
- For low torque applications
- For use on Delco-Remy window-type distributors



ACD12A

### Cleaning Brush

#### ACD12A Distributor Cleaning Brush Blue-Point®.

- Wire brush cleans terminal connections on distributors and coils
- 5 1/4" long with a 4" long handle
- Wire diameter is .012"



YA6465

### Ignition Tools

#### YA6465 Ford Ignition Modulator Wrench.

- Use to remove 7/32" (5.5mm) hex retainer bolts on Ford ignition modules
- 1/2" hex drive



YA2700



ITHE100



IT100

### Ignition Testers

#### YA2700 Ignition Module Tester.

- For testing Chrysler 4 pin and 5 pin modules; GM 4 pin, 5 pin, and 7 pin modules; plus Ford 3 pin and gr ommet style modules
- LED indicator gives a simple go od or bad reading

#### ITHE100 Ignition Tester.

- Same as HT100 but for use on HEI systems

#### IT100 Ignition Tester.

- For standard ignition systems
- Check for spark without removing spark plug from engine
- Testers attach to spark plug lead and spring clip attaches to appropriate ground



### Oxygen Sensor

#### S6176 Oxygen Sensor Socket.

- For service on most Nissan, Mazda and Honda/Acura vehicles
- Slotted side clears projections
- 22mm, 1/2" drive, 3 7/8" long

#### S6150 Oxygen Sensor Wrench.

- Special crowfoot wrench design provides strength necessary for removal/installation
- 12-point, 7/8" wrench size, 1/2" drive
- Nickel-chrome finish

#### S6154 Oxygen Sensor Wrench.

- For use on oxygen sensors on 2007 Acura RDX. 22mm
- 12-point wrench opening, 1/2" drive
- Nickel-chrome finish

#### SWR1 Oxygen Sensor Wrench.

- Designed for all oxygen sensors with a 7/8" hex
- Flex head offers essential clearance for removal/installation of oxygen sensors when sensor is positioned upward and inward to the floorboard or when leverage is needed around an exhaust pipe
- Ford Contours and 4.6L and 5.4L Ford Modular engines used in trucks and SUVs have this application
- Other applications include 7/8" and 22mm knock sensors used on mid-size trucks, SUVs and vans
- Flank Drive® wrenching system for greater applied torque
- Chrome finish for easy cleanup and protection against corrosion
- Compact, low clearance head
- Overall length: 10 3/4". Hex: 7/8" 6-point. Head diameter: 1 9/16". Slot width: 1 5/16"

#### SWR2 Oxygen Sensor Socket.

- For oxygen sensors located in the exhaust manifolds of 1981 and later cars and light trucks, including VWs
- 3/8" drive with 7/8" hex size
- 1/2" opening for easy access to oxygen sensor
- Flank Drive wrenching system for greater applied torque with less effort
- Ball detent in square drive for secure retention
- Industrial finish

#### SWR4 Oxygen Sensor Wrench.

- Use on oxygen sensors with a 22mm (7/8") hex
- Bent handle design with flex head offers extra clearance for removal and installation of shielded oxygen sensors and air/fuel sensors
- Chrome finish for easy cleanup and protection against corrosion
- Depth of socket and wall diameter of socket is critical for limited space inside heat shield
- Overall length: 10 3/4". Hex: 7/8" 6 point. Head diameter: 1 3/16". Slot width: 1/2"

#### Applications

- Toyota: 2003 and later
- Acura: 2005 and later
- Lexus, Honda, Hyundai and Kia: 2006 and later
- Nissan, Mazda: 2007 and later

#### SWR102 Oxygen Sensor Wrench Set.

- SWR1 and SWR2 (2 pcs) in storage tray.

#### YA1239 Dual Drive Oxygen Sensor Wrench Blue-Point®.

- 1/2" and 3/8" drive
- Attach 1/2" breaker bar on the end of the tool to initially loosen stuck sensors, use a 3/8" ratchet on the top for fast removal and installation
- Fits oxygen sensor applications with a heat shield
- Slotted body allows clearance for wire harness
- Forged, heat treated steel with 6 point design will withstand high torque removal applications

#### YA9385 Oxygen Sensor Socket Blue-Point.

- Use to install and remove oxygen and vacuum sensors on most domestic and import vehicles
- Can be used with impact wrench
- 1 1/4" external hex. 19/32" x 2 3/4" slot to clear obstructions, 22mm, 1/2" drive
- Black industrial finish

#### YA9375A Oxygen Sensor Wrench Blue-Point.

- For oxygen sensors on GM LT1 and LT5 5.7L V8 engines
- Further applications on 2007 and later Harley-Davidson® motorcycles
- Eliminates need to unhook exhaust system when removing or reinstalling oxygen sensor
- 3/8" drive with 2 1/8" hex size
- Industrial finish

#### YA6675 Shielded Oxygen Sensor Socket Blue-Point.

- For use on late model Toyota and Lexus
- Depth and outer diameter are critical for limited space inside heat shield
- 12-point double hex for twice the number of "clock angles" versus 6-point configurations
- Forged for maximum strength

#### YA6775 Oxygen Sensor Wrench Blue-Point.

- Designed for use with most oxygen sensors no matter what size electrical connectors they have
- Double sided design, 12-point configuration and 6-point
- Pivoting handle design allows positive leverage in confined areas



**WARNING**



- Do not use chrome or industrial finish hand tools with impact drivers
- Read safety precautions on pages 594 to 597

## BATTERY SERVICE

### Charge. Test. Boost. Invert. Diagnose.

When you use Snap-on® battery service equipment it doesn't matter what rolls into your shop because you will be prepared. When it comes to batteries, versatility is power, and that's exactly what Snap-on gives you.

- Battery Charger Plus™—The bottom line: batteries have changed. Has your charger? Charge almost any battery you can think of at any rate you need. Safely. It's that simple.
- Testing equipment—Snap-on offers reliable results in an easy-to-use package.
- Service tools—From kits to individual tools, Snap-on offers a full range of safe equipment you can count on.
- Cables/booster packs—Fully insulated, professional-quality equipment that's perfect for the shop or the field.





# BATTERY CHARGERS

## EEBC500 Battery Charger Plus.

- Adaptive: Standard automotive, deep-cycle, AGM and gel cell batteries each require a different charging cycle
- Versatile: Charges 6, 12 and 24 Volt batteries with 4, 15 and 60 Amp charging rates
- Convenient: GFCI outlets for auxiliary power to lights and other accessories: handy storage compartment for optional battery hand tools
- Smart: Fully automatic operation: microprocessor-controlled algorithms optimize the charge cycle without overcharging. Includes manual mode for timed charging
- Powerful: 300 Amp engine starting power
- Hi-tech: Exclusive flash reprogramming power supply maintains consistent OEM specified voltage
- Informative: Digital display: voltage, % of charge and alternator % of performance
- Professional: Rugged, streamlined design. Higher working height handle helps relieve stress on lower back
- SS3151 product information DVD

## EEBC100 Manual Charger.

- Manually set charging time as required
- 200 Amp 12 Volt and 100 Amp 6 Volt engine start available for emergency starting
- 40 Amp rapid charge charges in .5 to 1.0 hours
- 10 Amp fast charge charges in 3 to 5 hours
- Rugged retractable handle provides convenient storage
- UL Listed - USA and Canada



EEBC500



EEBC500CVR



EEBC100

Specifications	EEBC500	EEBC500INT	EEBC500S0J	EEBC100
Output Currents ADC	60/15/4	60/15/4	60/15/4	40/10/2
Output Voltages VDC	6/12/24	6/12/24	6/12/24	6/12
Switch Positions	3 switches - 64 Combinations	3 switches - 64 Combinations	3 switches - 64 Combinations	5
Continuous Input Current (Max), Amps	14.6	7	14.1	10
Crank Assist Input Current (Max), Amps	66.5	25	88	30
Input Voltage (Rated), VAC	120	230/240	100	120
Crank Assist Rating, ADC	300	300	300	200
Crank Assist Duty Cycle	1/36	1/36	1/36	1/48
Crank Assist On Time (seconds)	5	5	5	5
Crank Assist Off Time (seconds)	180	180	180	240
Boost Rating, Amps	300	300	300	200
DC Lead Type	Fixed	Fixed	Fixed	Fixed
DC Lead Length	7 6"	7 6"	7 6"	6
DC Lead Gauge	4 AWG	4 AWG	4 AWG	8 AWG
DC Clamps	500A	500A	500A	300A
AC Cord Length, feet	9	9	9	6
AC Cord Gauge	14-3	14-3	14-3	16-3
Ammeter	None	None	None	0-40
Voltmeter	Digital	Digital	Digital	None
Timer	Digital	Digital	Digital	135 Minute
AC Circuit Breaker	Self-Resetting	Self-Resetting	Self-Resetting	Self-Resetting
DC Circuit Breaker	Self-Resetting	Self-Resetting	Self-Resetting	Self-Resetting
Rectifier	8 SCR	8 SCR	8 SCR	4 Diodes
Ventilation	Fan Cooled	Fan Cooled	Fan Cooled	Fan Cooled
No. of Charge Rates	3	3	3	3
Wheel Size, inches	10	10	10	6
Weight, lbs.	86	90	90	40
Dimension L x W x H, inches	20.4 x 16.5 x 30.5	20.4 x 16.5 x 30.5	20.4 x 16.5 x 30.5	13.8 x 13.5 x 20
Outdoor Use	Yes	No	No	No
Country of Use	North American	Australia, Europe, UK	Japan	North America
Power Supply Cord	Included	EEBC5CABLE-A, E, U	Included	Included



EEBC5CABLE-A



EEBC5CABLE-E



EEBC5CABLE-U

## EEBC500CVR Battery Charger PLUS Cover.

- Protective cover for the EEBC500 battery charger PLUS series

## EEBC5CABLE-A

- Power supply, Australia. Use only with EEBC500INT

## EEBC5CABLE-E

- Power supply, Europe. Use only with EEBC500INT

## EEBC5CABLE-U

- Power supply, United Kingdom. Use only with EEBC500INT

## EEBC500-15 Lead Set.

- 15' for EEBC500 series

## TECHNICAL SUPPORT

1-866-713-6007



**WARNING**



- Charger must be OFF when connecting or disconnecting leads
- Avoid overcharging batteries • Read safety precautions on pages 594 to 597

# BATTERY CHARGERS



EEBC2216

## Bench Chargers

### EEBC2216 Bench Top Battery Charger.

- Automatic operation plus an intelligent micro-processor controlled charging sequence for use on a wide variety of battery types
- Charge conventional, maintenance free, AGM, gel cell, deep cycle and marine batteries
- Simply select the correct battery size: Charger will initiate the automatic charging process

Specifications	EEBC2216
Input	120V AC, 60Hz, 4.4 Amps
Output	12V DC, 1 to 16 Amps
Battery Range (Optimal)	25-200 AH
Charging Cable Length, ft	6
Dimensions	10.75" (L) x 4.5" (W) x 7.875" (H)
Shipping Weight, lbs. (kg)	4.94 (2.24)



EEBM500

## Battery Maintainers

### EEBM500 4A 6/12 Volt Battery Maintainer.

- Fully automatic 6/12 Volt operation, 4A charging rate
- Compatible with conventional, maintenance free, AGM, gel cel, spiral wound and deep cycle batteries
- LED charging status indication
- Includes quick connect output cord with clamp set, ring terminal set and 12V adaptor output accessories
- Ergonomic design with large buttons for easy use with gloves on
- Reverse polarity and battery fault warnings



EEBM100

### EEBM100 1.5A 12 Volt Battery Maintainer.

- Fully automatic 12 Volt operation, 1.5A charging rate
- Compatible with conventional, maintenance free, AGM, gel cell, spiral wound and deep cycle batteries
- LED charging status indication
- Rubberized boot to avoid scratching vehicle components and protect maintainer
- Quick connect output cord with clamp set and ring terminal output accessories



EEPI1500

EEPI175

## Power Inverter

### EEPI1500 Power Inverter.

- 150 Watt
- Powers cell phones, computers, Nintendo® DS, DVD players, iPods® and more
- Plugs into vehicle 12V power outlet
- Provides 110V AC household power inside your vehicle
- Provides USB power to small electronic devices

### EEPI175 Power Inverter.

- 175 Watt
- Same features as EEPI1500
- 2 USB ports
- Fits in cup holder

### EEPI2250 Power Inverter.

- 2,250 Watts of continuous power and 4,500 Watts peak power to run a wide variety of tools, electronics and appliances
- Stable, clean and reliable power with high surge capacity for use in the most demanding applications
- Precise electronics to enable proper charging of electronics: laptops, cell phones and gaming devices
- Three 120V AC outlets
- For tow trucks, fleets, construction vehicles and military use



EEPI2250

## D-TAC™ Plus Battery System Diagnostic Tester, Charger and Engine Starters

D-TAC Plus is a unique all-in-one starting and charging system service

**EECS306BKR D-TAC Plus.** D-TAC plus battery system diagnostic tester and charger. Includes integrated printer and cart.

**EECS306BPR D-TAC Plus.** D-TAC does not include cart.

- Automated system test (battery, starter, alternator)
- Good/bad battery determination plus automatic recharge
- Starter cranking voltage normal/abnormal
- Pass/fail alternator determination under loaded mode
- 300 Amps cranking assistance
- Troubleshooter menu offers a range of pinpoint test options including a digital multimeter, impedance meter, programmable battery loading and amp probe testing

### EECS306BHD Heavy Duty D-TAC Plus.

- New heavy duty gas and diesel applications. Great for standard automotive systems
- Extends CCA table for multiple batteries. Tests multiple batteries in parallel with a single quick test
- Special impedance probe with zeroing, tests general wiring harnesses for poor or faulty connections
- Modified alternator and starter tests lower RPMs and cranking time to perform these tests on large diesel engines
- 18 heavy duty truck Amp probe provides ample lead length to reach up into cabs

**EECS306BHK D-TAC Plus Heavy Duty Upgrade Kit.** Upgrade the DTAC Plus to heavy duty.

## MicroVAT™ Battery/Starting/Charging System Tester

- Complete automotive battery, alternator and starter system testing in under a minute
- Tests 6 and 12 Volt batteries and 12 and 24 Volt charging systems
- Impedance battery test diagnoses battery in 5 seconds or less
- Automatically compensates for state of charge and temperature
- Heavy duty truck applications - batteries up to 1,500 CCA, charging systems up to 400 Amps
- Fan cooled 50 Amp load for accurate alternator test under load

### EECS304B1B MicroVAT Specifications



EECS304B1B

Specifications	EECS304B1B
<b>Voltmeter Range</b>	0 to 50 Volts
<b>Voltmeter Resolution</b>	0.01 Volts
<b>Voltmeter Accuracy</b>	1% of reading $\pm$ L.S.D.
<b>Test Range</b>	100 to 1500 CCA batteries
<b>Rating Systems</b>	CA / CCA / DIN
<b>Battery Life</b>	50 hours
<b>Dimensions</b>	8.5" x 7" x 2.5"
<b>Weight lbs. (kg)</b>	2.6 (1.179)

**EECS304B1B MicroVAT Tester.** Programmed for English, French Canadian and Latin American Spanish languages.

## D-TAC/MicroVAT Accessories

### 2-6342-1 High Amp Probe.

Clamp-on inductive high amp probe for EECS306B Series D-TAC plus battery systems testers and EECS304B1B MicroVAT

- 0 to 1,500 Amp range for testing high current circuits
- 5 length. 1 Amp resolution

### 2-6442-1 Low Amp Probe.

Clamp-on Inductive Low Amp Probe for EECS306B Series D-TAC plus battery systems testers and EECS304B1B MicroVAT

- 0 to 15 Amp range for testing low current circuits
- 5 length. 10 Milliamp resolution

### DTACCART Roll Cart.

- Rolling storage cart for EECS306B Series D-TAC plus battery system diagnostic tester and charger
- Tubular steel cart with locking front casters and 2 storage trays
- Cart weight is 30 lbs.

**2-22566 Printer.** Wireless printer features infrared communication and 2" paper roll. For EECS304B1B MicroVAT and YA2636 tester (optional).

**8-00910A Printer Paper.** TAC plus battery system tester.

**5-08826A Printer Paper.** MicroVAT battery system diagnostic tester 2-22566.



EECS306BKR



EECS306BHK



2-22566



2-6442-1



2-6342-1



**WARNING**



- Charger must be OFF when connecting or disconnecting leads
- Avoid overcharging batteries • Read safety precautions on pages 594 to 597



# BATTERY TESTERS

The battery system testers use conductance technology to quickly provide the technician with the state of health of the battery, the starting system and the charging system. Select from 4 models for a good, better, best line up. One unit has a built in printer and another uses a wireless infra red printer. Some include on-screen commands in up to 7 languages.

## Electronic Battery Testers



Features	EECS500	YA2636	YA2624	YA2612B
CCA Range	100-1,400	100-3,500	390-1,700	100-1,400
Testing Method	Conductance	Conductance	Conductance	Conductance
Displays Battery % Available Capacity	CCA	% and CCA	%	%
Displays Battery Condition	•	•	•	•
Tests Discharged Batteries	•	•	•	•
Displays Battery State of Charge	•	•	•	•
Tests 12V Batteries	•	•	•	•
Test 6V & 12V Batteries	•	•	•	•
Tests Flooded/AGM/Gel Cell Batteries	•	•	•	•
Battery Recharge Indicator	•	•	•	•
Reverse Polarity Protection	Protect and detect	•	•	•
Detects and Displays Bad Cell	•	•	•	•
Surface Charge Warning	•	•	Displays volts	Displays volts
Tests 12V Starter/Charging Systems	Displays volts	•	Displays volts	Displays volts
Tests 12/24/36V Starter/Charging Systems	•	•	Displays volts	•
Internal Lead Set Diagnostics	•	•	•	•
Detects Alternator Ripple	•	•	•	•
Temperature Compensation	•	•	•	•
Loose Lead Detection	•	•	•	•
International Unit Conversion EN, JIS, EIC, DIN	•	•	•	•
Tests Parallel & Series (24V) Battery Packs	•	•	•	•
Printer Capable	Infrared Internal Printer	IR Printer	•	•
Store Test Data for Review and Print Out	•	•	•	•
English, Spanish, French Languages	7 Languages	•	•	•
Custom Header with Date and Time	•	•	•	•
Display	2 line 16 character	16 character LCD	4 digit LED	3 digit LED
Cable Length, inches (mm)	36 (914.4)	48 (1,219.2)	48 (1,219.2)	24 (609.6)
Parasitic Drain Function	•	•	•	•
Retention Magnet	•	•	•	•
Product Information DVD	SS3152	•	•	•

### YA2636-4 Infrared USB Adaptor.

- Use to store and print YA2636 test results to a PC or laptop
- Custom software on CD included with kit

### HHGA-5 Infrared Printer.

- Infrared printer for YA2636 tester

### HHGA-18 Replacement Paper Roll.

- 4 pack of replacement rolls for HHGA-5 infrared printer

### EECS500-1 Replacement Paper Roll.

- Paper rolls for EECS500 printer



YA2636-4



HHGA-5

### TECHNICAL SUPPORT

1-866-592-8052  
For EECS500 Only

# BATTERY SERVICE TOOLS

## Booster Packs/Booster Cables/Clamps

### Portable Booster Pack

#### EECS309B Portable Booster Pack.

- 1,700 peak Amps for quick starting power works on deeply discharged batteries
- 2 LED charge level indicator provides charging status at a glance
- 30" 6 gauge clamp leads (included) are detachable, via heavy duty brass sockets for easy field replacement of cables
- 2 insulated posts provide secure separation and storage for the clamps
- 12V cigarette lighter socket allows recharging, and also provides a 12V source to power external devices, such as radios, lights; 5' power cord included
- Fast recharge via 120V 4 Amp wall charger; includes charging status indicator lights

#### EECS309B Optional Accessories:

EECS309B-5. Positive lead and clamp 60".

EECS309B-6. Negative lead and clamp 60".

EECS309B-9. Motorcycle leads (positive and negative).

#### EECS660 Portable Booster Pack.

- 1,700 peak Amps for starting power in heat or cold
- Long reach 46" 4 gauge cables
- Industrial grade clamps grab and hold on battery terminals
- Quickly plug heavy duty shop extension cord into front of unit for built in charging
- 12 Volt DC power for convenience



EECS309B



EECS660



BC20500



BC25500P

### Cables/Clamps

- Professional quality booster cables with heavy gauge 100% copper stranding
- Clamp bodies are fully insulated and have recessed copper jaws to minimize the chance of sparking if the cables touch
- Heavy duty clamp springs bite securely on top or side battery posts

#### BC20500 Booster Cable Set.

20' long, 4 ga., 413 strands copper wire

#### BC15500 Booster Cable Set.

15' long, 4 ga., 329 strands copper wire

#### BC25500P Plug In Style Booster Cables.

- Starting cable and connection harness
- Heavy gauge 25' cables plug into bumper mounted socket to reach any stalled vehicle without having to lift the truck's hood
- Polarized socket mounts to service truck bumper and connects to truck battery
- 500 Amp clamps are fully insulated with vinyl 4 ga., 413 strands of copper wire

## Battery Service Tools



2005BSKA



2004BSKA

### Service Kits

All components are described and illustrated on the following page

#### 2005BSKA Battery Service Kit. 5 pcs.

##### Includes:

- 208CCP Angle nose pliers
- B260A Cable clamp pliers
- BTC10 Side terminal cleaner
- BTC7B Terminal cleaner
- CJ92 Self locking cable clamp
- CO506 Kit bag

#### 2004BSKA Battery Service Kit. 4 pcs.

##### Includes:

- 208CCP Angle nose pliers
- BTC10 Side terminal cleaner
- BTC3A Terminal brush
- YA249 GM battery terminal wrench
- CO410B Vinyl kit bag



MT302A

### Remote Starter Solenoid Switch MT302A Remote Starter Solenoid Switch.

- 5' leads allow cranking engine from sides or beneath auto while keeping hands away from moving belts, parts
- Housing protects switch from dirt and moisture
- Heavy duty switch reduces arcing; includes safety shield
- 35 Amps at 12 Volts. 20 Amps at 24 Volts



**WARNING**



- Charger must be OFF when connecting or disconnecting leads
- Avoid overcharging batteries • Read safety precautions on pages 594 to 597

# BATTERY SERVICE TOOLS



208CCP



B260A



GA486A



CJ92

## Cable Clamp Tools

### 208CCP Angle Nose Pliers.

- Rounded nose protects battery from damage
- Jaws are offset 30° for better leverage
- 7 3/4" long

### B260A Cable Clamp Pliers.

- Spreads and cleans cable clamps
- Prybar on one end
- 7 3/8" long

### GA486A Cable Clamp Puller.

- Removes cable clamps without damaging posts
- 4" long

### CJ92 Cable Clamp Puller.

- Self-locking jaws securely grip terminal and pull without damage to post
- 1 3/4" spread



BTC3A



YA9484



BTC7B



BTC8A



BTC10



YA249



YA249L

## Terminal Tools Blue-Point®.

### BTC3A Terminal Brush.

- Stiff wire bristles thoroughly clean posts and clamps
- 3 3/8" long

### BTC7B Terminal Cleaner.

- Cleans posts and cable clamps
- Includes a small, circular wire brush with protective cap to clean side terminals
- Plastic body

### BTC8A Terminal Cleaner.

- Cleans posts and cable clamps
- Plastic body
- 3 1/2" long

### BTC10 Side Terminal Cleaner.

- Cutters on one side clean battery contacts; brush cleans cable contact
- 4 1/2" long

### YA9484 Battery Terminal Crimper.

- Ideal for replacing or repairing battery cable terminal ends
- Design helps prevent overcrimping
- Terminal sizes 6 ga. through 4/0

### YA249 GM Battery Terminal Wrench.

- Ratcheting box wrench design for use on GM side terminal batteries
- 5/16" hex, 5 1/2" long

### YA249L Side Battery Terminal Wrench (5/16").

- Extra long (9 3/4") for connecting/disconnecting battery side terminals on 1994 and later Ford Aerostar vans and GM vehicles including: 1994 and later Pontiac Grand AM, Lumina APV, "W" body cars, plus Buick Regal, Olds Cutlass, Chevrolet Lumina and Pontiac Grand Prix
- 5/16" wrench size



BT101



BB4C



GA207A



BB6



BL1B

## Hydrometers Blue-Point

### BT101 Battery Hydrometer.

- Determines specific gravity from 1.100 to 1.300
- No temperature tables required or difficult float reading to observe
- Design enables both customer and technician a viewing opportunity to see the state of the battery acid

### BB4C Hydrometer/Thermometer.

- Measures specific gravity from 1.100 to 1.300 and includes a quick reference, color coded "poor," "fair" or "good" scale plus a temperature correction scale
- 14 3/4" long

## Fillers Blue-Point

### BB6 Filler Bulb.

- 6 oz. fluid capacity
- Hard rubber stem features an overflow for dripless filling
- 10 1/2" long

### GA207A Automatic Filler.

- Insert spout into fill hole and press down
- Fills without overflow

## Carrier Blue-Point

### BL1B Battery Carrier.

- For top post and side terminal batteries
- Rubber pads securely grip battery widths from 5" to 7"
- Plastic hand grip provides a firm hold



## AIR CONDITIONING AND COOLING

### More Business In-House Means More Business Period.

Snap-on® offers the latest technology in air conditioning (A/C) and cooling system products along with complete cooling system coverage. From coolant exchangers and refillers to cooling system pressure testers, Snap-on will help you cool any vehicle on the road.

- From A/C equipment that does most of the work automatically, to hand held equipment that delivers quick, accurate results—it doesn't take long to see a return on your investment.

- A/C recyclers and leak detectors—Designed and manufactured to meet all current EPA and SAE standards, Snap-on recyclers prove themselves to your customers. They also reduce refrigerant usage in your shop and protect the ozone while SAE J2791 certified detectors uncover the smallest of leaks.
- System coverage—From vacuum pumps and manifold sets to UV leak detection kits and digital thermometers, your A/C needs are covered.

### Reducing Call Backs.

The last thing you want to do is the same job twice. When you use Snap-on A/C service equipment, accuracy will be your calling card. With microprocessor-controlled operation and automatic detection mechanisms, you're working with smarter equipment.



# AIR CONDITIONING

## Recycling/Recharging Systems (R134a)



EEAC325B

COMPRESSOR 2.80Z ↑  
FRONT EVAP 3.80Z  
CONDENSER 1.80Z

87 TAHOE  
FRONT & REAR A/C  
CHARGE CAPACITY  
2.52LBS

87 TAHOE  
COMPONENT OIL CAP  
REPLACEMENT:  
ACCUMULATOR 2.80Z ↓

### KOOL KARE™ PLUS

#### A/C Service Center (R134a)

##### EEAC325B A/C Service Center.

- Complete auto sequence programmability
- Larger gauges, larger 4 x 20 display and vacuum leak test

##### EEAC324B/EEAC325B Standard Accessories:

- EEAC325A1 Spin on filter dryer
- EEAC325A2 High side service hose
- EEAC325A3 Low side service hose
- EEAC325A4 Oil drain bottle
- EEAC325A5 High side service coupler
- EEAC325A6 Low side service coupler

##### EEAC324B/EEAC325B Shared Features:

- Fully automatic air purge and built in oil injection
- Meets SAE J-2788 standard of 95% refrigerant recovery and +/- .5 oz. charge accuracy
- 20% increase in refrigerant recovery saves refrigerant
- Increased charge accuracy reduces A/C repair call backs
- Extra-long 11'-1/4' hoses for heavy duty applications
- Microprocessor controlled operation
- Meets all current SAE, UL and CSA standards for operation, performance and purity: true single pass recycling
- Simple, menu driven operation
- Automatic high pressure and tank shutoff
- Automatic purge of air and other non-condensable gases
- Multi-lingual

##### EEAC325B Only Features:

- Vehicle database (1994-2008) for refrigerant and oil specifications
- Imports charge capacity directly into charge mode
- Programmable vacuum hold time
- Upgradeable software

EEAC325A1 – Spin-on filter dryer for EEAC324A/EEAC324B and EEAC325A/EEAC325B A/C Recyclers. Avoid A/C recycler downtime. Keep extra EEAC325A1 filters on hand, since the new SAE J-2788 standard requires filter dryer replacement after 150 lbs. of refrigerant used. Filter life prompt occurs when 100 lbs. of refrigerant have been filtered. Mandatory filter lockout will occur after 150 lbs. of refrigerant have been filtered.



EEAC324B

### ECO™ PLUS A/C Service Center (R134a)

#### EEAC324B A/C Service Center.

- Great performance at a semi-automatic value price
- Intuitive interface uses up/down screen menu options
- Menu display guides technician through service process

Specifications	EEAC324B / EEAC325B
Temperature Range	50° to 120°F (10° to 49°C)
Relative Humidity	Up to 80% non-condensing
Operating Pressure	450 psi
Storage Temperature Range	-4° to 140°F (-20° to 60°C)
Compressor	1/3 HP, 1.1 CFM reciprocating
Vacuum	28 inch Hg at sea level
Vacuum Pump (EEAC324B)	1/4 HP, 1.5 CFM, reciprocating, 40 microns
Vacuum Pump (EEAC325B)	1/3 HP, 3.0 CFM, reciprocating, 40 microns
Gauge Ranges	High Side: 500 psi (34 BAR) Low Side: 350 psi (24 BAR)
Recovery Amount	23 lbs. (10.43 Kg)
Recovery Rate	1 lb. per minute
Refrigerant Charge Amount	0-22 lbs. (9.98 Kg)
Onboard Refrigerant Capacity	30 lbs. (14 Kg)
Charge Oil Bottle	12 oz. (360 mL)
Drain Oil Bottle	12 oz. (360 mL)
Dimensions	34"D x 46"H x 24"W
UV Oil Dye Injection	Yes
Warranty	2-Year
Vehicle Database (EEAC324B)	No
Vehicle Database (EEAC325B)	Yes

**TECHNICAL SUPPORT**  
1-866-769-2788



EEAC325ACV

#### EEAC325ACV A/C Service Center Cover.

- Protects EEAC324A, EEAC324B, EEAC325A and EEAC325B from dust, moisture and shop environments



SS444E

### Air Conditioning Sales

#### SS444E Merchandising Banner - Air Conditioning.

- Durable, weather resistant plastic
- Measures 82" x 34"
- Includes 60" ropes at corners

### Service Center Accessories

#### ACTFILTERPL A/C Filter.

- Filters and separates A/C sealants, dyes, debris, lubricants and other contaminants
- Damage results from Type I sealants or Type II entering A/C service equipment from a vehicle during servicing
- ACTFILTERPL not required or recommended for J2788 certified EEAC324A/EEAC325A and EEAC324B/EEAC325B recyclers

#### ACTFILTER1 Replacement Filter Kit.

- Replacement filter for ACTFILTERPL



ACTFILTERPL

### Filter Dryers

#### EEAC325A1 Filter Dryer.

- Use on EEAC324A/EEAC324B and EEAC325A/EEAC325B
- Mandatory filter lock-out will occur after filtering 150 lbs. of refrigerant

#### EAK0095C01AB Filter Dryer.

- Use on EEAC307C, EEAC308C and EEAC310A (R12 side)

#### EAK0095C02AB Filter Dryer.

- Use on EEAC310A (R134a side)

#### EAK0030C02AB Master Dryer Kit.

- Use on EEAC313A (R134a side)
- Dual mode heated

### Master Dryer Kit

#### EAK0030C01AB Master Dryer Kit.

- Filter/dryer should be changed regularly depending on usage of unit
- Kit includes filter and instructions
- Use on EEAC301B, EEAC304D, EEAC313A (R12 side), EEAC316A, EEAC318A, EEAC319A and EEAC320A



EAK0030C01AB

### Oil Change Kits

#### EAK0029C00AB Compressor Kit.

- Use on EEAC308C, EEAC319A and EEAC320A

#### EAK0029C01AB Compressor Kit.

- Use on EEAC310A, EEAC313A, EEAC316A, EEAC318A, EEAC324A/EEAC324B AND EEAC325A/EEAC325B
- Includes 2 quarts of oil, parts and instructions



EAK0029C01AB

#### ACT71-0A Vacuum Pump Kit.

- 32 oz. bottle



ACT71-0A

### Refrigerant Gas Leak Detectors

#### ACT795UV Refrigerant Gas Leak Detector.

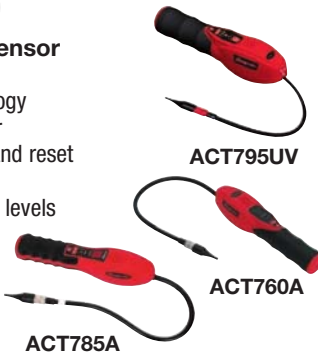
- Features both UV light and solid electronic electrolyte sensor
- Detects all commercially available dyes
- Digital alarm with numeric leak size indicator
- 3 UV light array illuminates fluorescent dye leaks
- No UV enhancement glasses needed
- Automatic calibration and reset to ambient levels
- 3 adjustable sensitivity levels
- True mechanical pump
- Long life, stable sensor, low battery indicator
- Mute feature
- SAE J2791 Certified
- EN14624 Certified
- CE Certified

#### ACT785A Electronic Refrigerant Gas Heated Sensor Leak Detector.

- High sensitivity to HFC refrigerants such as R134a
- Digital alarm with numeric leak size indicator
- Audio and visual (flashing LEDs) leak indicators
- Detects smaller leaks; reduction in false triggering
- SAE J2791 Certified

#### ACT760A Heated Sensor Leak Detector.

- Heated sensor technology
- Long life, stable sensor
- Automatic calibration and reset to ambient levels
- 3 adjustable sensitivity levels
- True mechanical pump
- Mute feature
- SAE J2791 Certified
- EN14624 Certified
- CE Certified



ACT795UV

ACT760A

ACT785A

### Service Equipment (R134a and R12)



ACT120A

### Electronic Charging Scale

#### ACT120A Electronic Refrigerant Scale.

- Use with R12 or R134a refrigerants
- Reads transfer amount during charging or recovery operations
- Reads in pounds or kilograms
- Auto off function after 3 hours

Specifications	ACT795UV	ACT785A	ACT760A
<b>Sensitivity Range</b>	.05 oz/yr (R134a), .025 oz/yr (R22)	.05 oz/yr (R134a), .03 oz/yr (R22)	.05 oz/yr (R134a), .03 oz/yr (R22)
<b>UV Mode</b>	3 UV LEDs		
<b>UV Wavelength</b>	395-415nm		
<b>Sensor Life</b>	>300 hours	>300 hours	>300 hours
<b>Power Supply</b>	4 AA Alkaline batteries	4 AA Alkaline batteries	4 AA Alkaline batteries
<b>Battery Life</b>	8 hours continuous	8 hours continuous	8 hours continuous
<b>Warm Up Time</b>		<20 seconds	<20 seconds
<b>Probe Length</b>	17 inches	17 inches	17 inches
<b>Weight, lbs. (kg)</b>	1.5 (.68)	1.5 (.68)	1.5 (.68)
<b>Warranty</b>	3 years (2 on sensor)	3 years (2 on sensor)	3 years (2 on sensor)
<b>Numerical Display</b>	7 segment digital display (1 to 9)	7 segment digital display (1 to 9)	
<b>Alarm Near Sensor</b>	Visual probe LED	Yes	
<b>Carrying Case</b>	Included	Included	

Specifications	ACT120A
<b>Capacity, lbs. (kgs.)</b>	240 (110 Kg)
<b>Accuracy</b>	±.16 oz. (±0.01 Kg) or 0.1% of reading (whichever is greater)
<b>Resolution</b>	0.01 lb. (0.01 Kg)
<b>Operating Temperature</b>	32°F to 120°F (0°C to 49°C)
<b>Platform</b>	9" (228.6mm) square
<b>Power Supply</b>	9 Volt battery (included)
<b>Battery Life</b>	Approx. 40 hrs.



**WARNING**



- Wear safety shield (user and bystander)
- Read safety precautions on pages 594 to 597



# AIR CONDITIONING

## Service Equipment (R134a and R12)



ACTUVPROKT



ACTUVQUADKT



ACTUVMINI4



ACTUVLED



ACTUVINJKT

### ACTUVPROKT Metered UV Injection Kit.

- New technology dye injection solution
- One precise squeeze of trigger per application
- More accurate than caulk-style guns
- Includes high-capacity 12 oz. cartridge that covers 96 applications

### ACTUVPRO12

- 12 oz. dye cartridge for ACTUVPROKT

### ACTUVPRO

- Injection gun only for ACTUVPROKT

## Ultraviolet Leak Detector Kits (LED Light)

### ACTUVQUADKT UV Leak Detection Kit Blue-Point®.

- Includes 4 LED UV light, mini dye injector, A/C dye cartridges, hose with R134a coupler, R12 adaptor, 1 oz. of coolant dye, 1 oz. of oil/fuel/ATF dye, 10 A/C service labels and UV glasses

### ACTUVMINI4 Mini LED UV Flex Light and UV Goggles Kit Blue-Point.

- Bright LED light with 12" flexible probe gets in tight spots
- Comfort grip light handle with conveniently located On/Off button
- Includes flex light and UV safety glasses

### ACTUVLED LED UV Light Kit Blue-Point.

- Includes rechargeable ultra bright LED UV cord free swivel light (ACTUVLED8) plus rechargeable battery, battery charger and UV glasses

### ACTUVC10 Dye Cartridge.

- 10 application dye cartridge with 10 A/C service labels

### ACTUVINJKT A/C Leak Detection Kit Blue-Point.

- Detects A/C refrigerant leaks quickly and easily
  - Universal A/C dye is SAE certified and OEM approved
- Includes:
- Universal A/C dye to service up to 40 vehicles ACTUVKITHRT for refills
  - Exclusive gun style injector and dye cartridge
  - Powerful 1 watt Luxeon® light
  - Compatible with fluorescent dyes
  - R134a adaptor
  - UV Glasses
  - Service stickers
  - Convenient storage case

### ACTUVKITHRT Blue-Point

- Consists of 4 - 1oz cartridges

## Ultraviolet Leak Detector Kits (High Intensity Light)

### ACTUVDYEKIT UV Leak

- Detection Kit Blue-Point. Includes high intensity light (ACTUVDYEKIT1), dye injector and cartridge with 25 applications, hose w/R134a coupler (ACTUVDYEKIT2), R12 adaptor (ACTUVDYEKIT4), 25 A/C service labels (ACTUVDYEKIT5), dye cleaner (CLEAN1SM), UV safety glasses (GLASS20BKY) and storage case (ACTUVDYEKIT6).

### ACTUVDYEKT1 High Intensity UV Light.

- High intensity 12VDC/50W compact light gets in tight spots
- Coiled cord extends to 14' with clips for attachment to battery

### ACTUVDYEKT2 Injection Hose.

- Hose with R134a coupler for ACTUVDYEKIT

### ACTUVDYEKT3 Replacement Injector Handle.

- Replacement injector handle for dye injector in ACTUVDYEKIT

### ACTUVDYEKT4 R12 Adaptor.

- R12 adaptor for ACTUVDYEKIT

### ACTUVDYEKT5 A/C Service Labels.

- Pack of 25 A/C service labels for ACTUVDYEKIT

### ACTUVC25 Dye Cartridge.

- 25 application dye cartridge with 25 A/C service labels

### GLASS20BKY Safety Glasses.

- Black frame with amber lens



ACTUVDYEKIT



ACTUVGUNA

ACTUVKITA

ACTUVGUNA8

## Ultraviolet Leak Detector Kits

- Inject dye in low side port on automotive A/C system, circulate and check for leaks with the UV Mini Light
- Detect leaks as slow as 1/4 oz. per year
- Use optional dyes to check for leaks in engines, transmissions, hydraulic systems and power steering systems

### ACTUVKITA R12/R134a UV Leak Detection Kit

Blue-Point Includes:

- ACTUVGUN3 Injection gun
- ACTUVGUN5 R134a Injection gun adaptor
- ACTUVGUNA7 R12 System injection gun adaptor
- ACTUVGUNA8 Universal dye cartridge (8 oz.)
- ACTUVLITE4 UV enhancing glasses
- ACTUVLITEA8 Swivel head UV light (12 volt, 50 watt)
- ACTUVLITEA9 Storage case

### ACTUVGUNA Injection Gun Kit Blue-Point Includes:

- ACTUVGUN3 Injection gun
- ACTUVGUN5 R134a Injection gun adaptor
- ACTUVGUNA7 R12 System injection gun adaptor
- ACTUVGUNA8 Universal dye cartridge (8 oz.)

### Ultraviolet Leak Detector Dye Cartridges/Accessories

Stock No.	Description
ACTUVGUN3	Injection Gun
ACTUVGUN5	R134a Injection Gun Adaptor
ACTUVLITEA8	12V, 50 Watt UV Swivel Head Mini Light
ACTUVGUNP1	PAG Oil Cartridges/46 Viscosity (six, 8 oz.)
ACTUVGUNP2	PAG Oil Cartridges/100 Viscosity (six, 8 oz.)
ACTUVGUNP3	PAG Oil Cartridges/125 Viscosity for GM (six, 8 oz.)
ACTUVGUNP4	PAG Oil Cartridges/150 Viscosity (six, 8 oz.)
ACTUVGUNE1	Ester Oil Cartridges/100 Viscosity (six, 8 oz.)
ACTUVGUN2	Universal A/C Dye Cartridge (4 oz.)
ACTUV10PAK	Universal Dye Cartridges (ten, 1/4 oz.)
YAUVC00L	Coolant Dye Cartridges. (six, 1 oz.)
YAUV4N1	Engine/Transmission/Hydraulic/Power Steering Accessory Dye Cartridges. (six, 1 oz.)
ACTUVKITJR1	A/C Dye Cartridges (six, 1/4 oz.)
ACTUVKITJR2	A/C Dye Cartridges (six, 1 oz.)

### Ultraviolet Flashlights Blue-Point® ECFUVLITE Ultra Compact UV Leak Detection Flashlight Kit.

- High intensity LED bulb with 100,000 hour service life
- Comparable to high intensity 75 Watt lamps
- Compatible with all standard leak detection dyes
- Inspection range of up to 6
- (3) AAA batteries and fluorescence enhancing glasses are included



ECFUVLITE

### ECFUV150 UV Leak Detection Flashlight.

- Very high intensity LED technology
- 15 times brighter than regular LED lights
- Power comparable to 150W lamps
- Inspection range of up to 20
- Compatible with all standard dyes
- Fluorescence enhancing glasses and charger included



ECFUV150

### ECFUV200 UV Leak Detection Flashlight.

- Pinpoints A/C, oil, fuel, ATF, PS, hydraulics, coolant and auto body leaks
- Use with blue lamp with fluorescent dye, white lamp for general component inspection
- 100,000 hour LEDs never need replacing
- UV inspection range up to 6 (1-8 m)
- Powered by (3) AAA alkaline batteries (included)
- Flashlight, holster and fluorescence enhancing glasses included



ECFUV200

### Manifold Service Kit Blue-Point

#### ACT1234PKT Manifold Repair Kit.

- Includes various replacement lens, knobs, O-rings, gaskets and more
- Use to service ACTR4151, ACT9500C, ACTR5134 and ACT51234 manifold gauges



ACT1234PKT

### Manifold Test Gauge (R12)

#### ACT9500C Manifold Gauge.

- Extruded aluminum body with 65mm gauges
- Sight glass allows you to see refrigerant as it flows
- Built-in Schrader valves
- 96" yellow charging hose
- 96" yellow charging hose plus 72" red and blue hoses



ACT9500C

### Digital Manifold Gauges (R134a) Blue-Point ACTR5150A Digital Manifold Gauge Set (R134a).

- Displays refrigerant and oil capacities
- Large easy to read LCD screen displays pressure and vacuum readings for R134a
- High quality aluminum block manifold
- Performs system leak check at conclusion of the evacuation process
- Heavy duty hook folds and stores on back
- Rubber boot for added protection
- Includes digital manifold, (3) 72" hoses and (2) manual couplers in a storage case



ACTR5150A

### Manifold Test Gauges (R134a)

#### ACTR5134 Manifold Gauge Set.

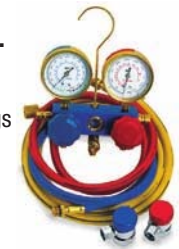
- Extra large
- 80mm gauge face and oversized sight glass for better visibility
- Large, 1/4 turn open/close manifold ball valves
- Manual high and low couplers for quick connections
- 72" red and blue nylon barrier hoses meet EPA, SAE and UL standards
- 96" yellow charging hose



ACTR5134

#### ACTR4151 Manifold Gauge Blue-Point.

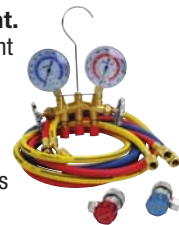
- Manual couplers are spring loaded to eliminate service valve damage
- Extruded aluminum body with solid brass fittings
- High side and low side silicon anti-flutter gauges (65mm) reduce vibration
- Sight glass permits visual monitoring of refrigerant flow
- 96" yellow charging hose plus 72" red and blue hoses



ACTR4151

#### ACTR4131 A/C Manifold Set Blue-Point.

- Anti-flutter gauges smooth out needle movement
- Easy grip all metal side mounted knobs
- Piston-type free floating valves reduce O-ring wear
- Manual R134a couplers
- 60" red, blue and yellow inner nylon layer hoses meet EPA, SAE, and UL standards
- Yellow hose includes shut off valve



ACTR4131

#### ACTR4772-3 High Side Quick Coupler.

#### ACTR4772-2 Low Side Quick Coupler.

### Manifold Test Gauge (R134a/R12)

#### ACT51234 R12/R134a Manifold Test Gauge.

- Three sets of hoses (72" red and blue plus 96" yellow) permit true interchange between R12 and R134a refrigerants
- Large, 1/4 turn positive open/close manifold ball valves
- Oversize sight glass for easy flow viewing
- Extra large 80mm gauge face for better visibility
- Manual high and low couplers for quick connections
- Nylon barrier hoses meet EPA, SAE and UL standards



ACT51234



**WARNING**



- Wear safety shield (user and bystander)
- Read safety precautions on pages 594 to 597

# AIR CONDITIONING

## Service Equipment (R134a and R12)



ACTRB72



ACTRY96



ACTB72



ACTB72A



ACTR72A

### Replacement Hoses (R134a)

- Low permeation hoses for internal equipment connections
- 1/2" ACME fittings
- Hoses comply with SAE J2197

**ACTRR72** Red, 6' length

**ACTRR96** Red, 8' length

**ACTRB72** Blue, 6' length

**ACTRB96** Blue, 8' length

**ACTRY72** Yellow, 6' length

**ACTRY96** Yellow, 8' length



ACT2100



ACTMAN2100

### A/C Hose Crimping Tools

**ACT2100 Hydraulic A/C Hose Crimper Set Blue-Point.**

- Recrimp or install most barbed and beaded fittings
- Allows user to create standard or custom length A/C hoses
- Set contains the hand operated hydraulic crimping tool (ACT21001), (4) sets of dies for standard fittings and (4) sets of dies for reduced barrier fittings

**ACTMAN2100 Manual A/C Hose Crimper Set Blue-Point.**

- Manual version of the ACT2100 hydraulic hose crimper
- Easily mounts to workbench or held securely in a vise
- Includes a complete set of dies covering standard #6, #8, #10 and #12 hose sizes

**ACT21001 Crimping Tool.**

- Hand operated hydraulic A/C hose crimper used to recrimp or install new fittings on A/C hoses

Stock No.	Description	Fitting Size	Hose Size
<b>ACT21002</b>	Standard/Reduced Barrier Die Set	#6 (Standard), #8 (Reduced Barrier)	5/16" (Standard), 13/32" (Reduced Barrier)
<b>ACT21003</b>	Standard Die Set	#8	13/32"
<b>ACT21004</b>	Standard Die Set	#10	1/2"
<b>ACT21005</b>	Standard Die Set	#12	5/8"
<b>ACT21006</b>	Reduced Barrier Die Set	#6	5/16"
<b>ACT21007</b>	Reduced Barrier Die Set	#10	1/2"
<b>ACT21008</b>	Reduced Barrier Die Set	#12	5/8"

### Replacement Hoses (R12)

- 6' hoses include 1/4 turn manual shutoff valves
- Comply with SAE J2196

• 6' and 8' hoses also available with automatic shutoff valves

**ACTB72** Blue, 6', 1/4 turn manual shutoff valve

**ACTB72A** Blue, 6', automatic shutoff valve

**ACTR72A** Red, 6', automatic shutoff valve

**ACTY72** Yellow, 6', 1/4 turn manual shutoff valve

**ACTY72A** Yellow, 6', automatic shutoff valve



ACT9005



ACTR12345C



ACT9006

### Vacuum Pumps (R134a/R12) Blue-Point®

**ACTR12345C Vacuum Pump.**

- 2 stage design lowers pumping pressure, resulting in a deeper vacuum
- Internal check valve stops oil blowout in case of power loss
- Center oil fill port is accessible from the front as well as sides
- Durable lightweight die cast aluminum housing
- UL Listed

Specifications	ACTR12345C
<b>Free Air Capacity, cfm (l/min.)</b>	1.5 (42.4)
<b>Oil Capacity</b>	10 oz. (0.25 kg)
<b>Exhaust</b>	1/2" NPT
<b>Dimensions</b>	5" x 12" x 9"
<b>Electrical Requirements</b>	120VAC, 60 Hz
<b>Pump Motor, hp</b>	1/6
<b>Intake Port</b>	1/4" SAE and 1/2" ACME
<b>Pump Speed</b>	3,450 RPM
<b>Ultimate Vacuum</b>	50 microns

**ACT9005 Vacuum Pump.**

- High efficiency, single stage 1.5 CFM pump
- Ultimate vacuum of 100 microns
- 3 inlet port sizes: 1/4", 3/8" SAE and 1/2" ACME
- Gas ballast valve helps prevent oil contamination
- Easy access oil fill port
- 1/6 HP
- 120 VAC motor
- Weight: 16 lbs., oil capacity: 6 oz.

**ACT9006 Vacuum Pump.**

- High efficiency, 2 stage 5 CFM pump
- Ultimate vacuum is 25 microns
- 3 inlet port sizes: 1/4", 3/8" SAE and 1/2" ACME
- Easy access oil fill port
- 1/3 HP 120 VAC motor
- Weight: 38 lbs., oil capacity: 8 oz.



## Service Equipment (R134a and R12)

### Vacuum Pumps (R134a/R12)

#### ACT28B Pneumatic Vacuum Pump ±Blue-Point®.

- Removes impurities and moisture from A/C systems during evacuations
- Operates on 90 to 120 PSIG
- Consumption is 42 SCFM; vacuum flow: 1/3 hp at 28"
- Air inlet thread: 1/4"-18 NPT
- Vacuum inlet: 7/16"-20 UNC



ACT28B

### Valve Core Tools (R134a/R12)

#### ACT1297 Master Valve Core Tool Set (R134a/R12).

- Unique design offers locking device to hold shaft in place when removing or installing valve core
- Makes removal and installation of Schrader valve cores possible on fully charged systems

Includes:

- High side GM/Ford R12 adaptor (1/4" x 3/16")
- High side Ford R12 adaptor (1/4" x 1/8")
- R134a high side connector (16mm)
- R134a low side connector (13mm)
- 1/4" FL swivel connector
- Box for set component storage
- GM large bore valve core remover/installer assembly
- JRA R134a valve core remover/installer assembly
- Eton R134a low side valve core remover/installer assembly
- Eton R134a high side valve core remover/installer assembly



ACT1297

#### ACT2105 Orifice Tube Service Kit.

- Install and remove any style orifice tube
- Remove broken screens and tubes
- Includes auger point shaft, GM puller, brass extension, puller, remover arbor, remover nut and storage case



ACT2105

### Can Tapper Valve

#### ACT413A Can Tap Valve.

- Fits R134a (2 7/8"), R12 (2 1/2") and Oil (2") U.S. standard charge cans
- Includes 1/2" ACME-M and 1/4" FL-M ports
- Internal safety check valve prevents system backflow
- Composite construction with brass ports
- Includes insert for smaller cans



ACT413A

### Oil Injector (R134a)

#### ACTR82375 Oil Injector.

- Use to add refrigerant oil or large amounts of UV leak detection dyes to A/C systems
- Quickly adapts to manifold gauge sets or charging equipment
- 1/2" ACME male x 13mm R134a low side female threads
- 2 oz. capacity
- R134a use only



ACTR82375

### Seal and Clutch Service (R12)

#### ACT1300A A/C Clutch Remover Set.

- Simplifies removal/installation of A/C compressor clutch and clutch plates
- Provides access to shaft seals
- For use with Ford, Chrysler and GM A/C compressors



ACT1300A

### Thermometers

#### TEMP2A Digital Thermometer ±Blue-Point.

- Use on A/C systems, cooling systems and other applications
- Reads temperature of liquids, solids and gases
- Easy to read display in F° and C°
- Magnet: cover holds unit in place
- Tip cover protects probe during storage
- CE conformity



TEMP2A

#### TEMP3A Digital Thermometer ±Blue-Point.

- View center vent air temperature from under hood by placing external sensor in center vent
- Compare outside temperature with A/C discharge temperature
- Built in internal sensor
- External sensor with 10' extension wire
- MIN/MAX memory for both sensors
- Uses standard AAA battery (included)
- Large, backlit display with clock feature
- CE conformity



TEMP3A

Specifications	TEMP2A	TEMP3A
Temperature Range	-58° to 300°F (-50 to 150°C)	-58° to 158°F (-50 to 70°C)
Resolution	± 0.1°F (± 0.1°C)	+/- .1°F (+/- .1°C)
Accuracy	± 2.0°F (± 1.0°C)	+/- 1.8°F (+/- 1.0°C)
Response Time	Updates every 1.5 seconds	Updates every 1.5 seconds
Battery	MTACDC1-1	AAA
Battery Saver	35 minute auto power off	
Probe Length	3 1/2" (89mm)	
Overall Length	7" (178mm) with case	

#### TEMP10 Pocket Digital Thermometer ±Blue-Point.

- Measures liquid, air and surface temperatures via sturdy stainless steel probe
- Digital display for easy viewing
- Angled viewing head can be rotated 180°
- Convertible from Fahrenheit (F) to Centigrade (C)
- Temperature ranges: -58°F to 300°F (-50°C to 150°C)
- Plastic carrying sheath



TEMP10

#### ACT73A Dual Scale Dial Type Thermometer ±Blue-Point.

- Range 0°F to 220°F in 2° increments
- Checks temperature of condenser, outside air and cooling power
- 1 3/4" diameter



ACT73A

#### ACT83A Dial Type Thermometer ±Blue-Point.

- Range 0°F to 220°F in 2° increments
- Immerse stem about 2" in liquids, 4" in gases
- 1" diameter



ACT83A

#### ACT2030 A/C Temperature Tester ±Blue-Point.

- Quickly and easily determine A/C system performance
- Microprocessor compares temperature at the A/C vent and outside ambient temperature
- Automatic shutoff
- Includes diagnostic chart and tech tips
- Powered by 9V battery (included)
- Range 32°-120°F



ACT2030



**WARNING**



- Wear safety shield (user and bystander)
- Read safety precautions on pages 594 to 597

# AIR CONDITIONING

## AC Service Tools



ACT106B



ACT1009A



ACT1008A



ACT119



ACT1046C



ACT111B



ACT118B



TR109



ACT1290A



ACT81290



ACT499A



R404



RF818SC



TLE80A



ACT407



CT4G



GOGGLE1



ACT1370

### Adaptors/Valves/Connectors

#### ACT106B Expansion Tube Remover.

- For most GM models
- 4" long

#### ACT1009A Orifice Tube Remover.

- Use as CCOT and FFOT screen extractor
- Use in conjunction with ACT106B

#### ACT1008A Orifice Tube Tool.

- Services A/C systems
- 6 1/4" long

#### ACT119 Quick Connect Set.

- Simplifies connecting to core valve service fittings
- Includes straight coupler and a 90° coupler that accept either of 2 adaptors

### Service Tools

#### ACT1046C Flush Kit.

- Pressure flush condensers, evaporators and refrigerant lines after A/C system is completely discharged
- Designed to work with any lightweight flushing material that can be mixed with pressurized air
- Includes flush gun, hose, canister and canister adaptor

#### ACT111B Compressor Oil Injector Adaptor.

- Aluminum body holds up to 2 oz. of oil
- Uses pressure differential of the high and low side of A/C system

#### ACT118B Spring Lock Coupler Set.

- 4 pc. set aids in disconnecting refrigerant line couplings on many 1981 and later Ford A/C systems
- Color coded: red, 3/8"; blue, 1/2"; black, 5/8"; and beige, 3/4"

#### TR109 Valve Core Tool.

- Use to remove or replace valve cores on A/C systems (large bore)
- 6 3/4" long

#### ACT1290A Universal Valve Core Service Tool.

- Removes and replaces standard size Schrader style valve cores plus the larger size found in GM systems

#### ACT81290 Universal Valve Core Service Tool.

- Use on R12/R134a standard valve cores and JRA/EATON large bore R134a valve cores

#### ACT499A Spanner Wrench.

- Adjustable 3 stud design for GM R-4 compressors
- Applications on some GM, Warner, Pitts and Ogura clutches

#### R404 Refrigeration Ratcheting Box Wrench.

- 4 popular square sizes: 3/16", 1/4", 5/16", and 3/8"
- Quick ratcheting action with reverse levers at both ends

#### RF818SC Refrigerant Ratcheting Box Wrench.

- 9/16" 6-point for servicing compressor valve caps on 1 end
- 1/4" female square on other end for vehicles without Schrader valves

#### TLE80A Torx® 6-Point Socket.

- Service size E8 Torx fasteners on many compressors
- 1/4" drive

#### TLE60A Torx 6-Point Socket.

- Service size E6 Torx fasteners on 1977 and later Eaton and York compressors
- 1/4" drive

#### ACT407 Fin Straightener and Cleaner.

- Multi-head tool handles 8, 9, 10, 12, 14 and 15 fins per inch
- 4 1/4" long

#### CT4G Circuit Tester.

- For 6 and 12V systems
- Tests with engine off
- 6" lead protected by strain relief

#### GOGGLE1 Protective Goggles.

- Durable molded frame with flexible elastomer seals comfortably for a custom fit around nose, cheeks and forehead
- Quick adjust headband clips permit fast and easy fitting
- Indirect ventilation system channels and directs airflow over the lens
- Uvex 4C+™ lens coating protects against fogging, scratches and ultraviolet rays
- Meets ANSI Z87.1-1989

#### ACT1370 Disconnect Set.

- Includes 6 tools for disconnecting spring couplings on fuel lines
- Convenient plastic holder
- Useful on A/C spring couplings as well as push lock connectors on radiator and transmission lines
- Includes 6 tools for disconnecting spring couplings on Ford, GM and Chrysler A/C lines
- Works on fuel lines and can be used as push lock connectors on radiator and transmission lines
- Included sizes are 5/16", 3/8", 1/2", 5/8", 3/4" and 7/8"



SVTSRAD262A



SVTSRAD262U



RADKITPLUSA



RADKITPLUSJR



YA4505

### Vacuum Cooling System Filler

#### SVTSRAD262A Vacuum Cooling System Filler.

- Eliminates cooling system air locks that cause overheating
- Ideal for vehicle specific shops or municipal garages
- Expands the versatility of SVTS262C cooling system tester
- Adaptors available separately for virtually all import and domestic vehicles
- Liquid filled gauge provides an accurate reading
- Includes main body assembly, venturi and hose assembly, suction hose assembly, instruction manual with complete adaptor list

#### SVTSRAD262U Universal Cooling System Filler.

- Universal version does not require cooling system adaptors
- Includes 2 universal style cones to cover most applications

#### RADKITPLUSA Cooling System Vacuum/Filler.

- Easily eliminate cooling system air locks that can cause overheating
- Vacuum test checks for system leaks prior to filling
- Gauge protector helps prevent damage to gauge housing
- Push button vacuum valve for easy operation
- Fills system quickly by siphoning directly from the mix container
- Requires 90 psi (4.2CFM) air supply
- Includes Venturi assembly gauge and gauge protector, refill hose assembly, adaptors for most applications, universal fit cone adaptor, hose assembly and instruction manual with complete adaptor list in storage case.

#### RADKITPLUSJR Vacuum Cooling System Refiller.

- Reduces system filling time, eliminates airlocks and checks for system leaks
- Compact size allows access in restricted underhood areas
- Cone adaptor ensures unit will work on most domestic and import passenger vehicles and light trucks
- Push button control valve eliminates the need to interchange hoses
- Shop air (90 psi) quickly draws a powerful vacuum
- Eliminates system bleeding and purging

#### YA4505 Universal Radiator Adaptor

- 95% application coverage on cars and light trucks
- Replaces as many as 25 other costly radiator adaptors
- Compatible with radiator necks or reservoir tanks
- Can be used with Snap-on® RADKITPLUSA or RADPLUSA cooling system fillers, YA4000B vacuum and pressure pump and SVTS262A, SVTS262B and SVTS262C cooling system testers



YA2090



YA9190



2009FPI



YA7747



CG25



LDTSP4

### Radiator and Freeze Plug Tools

#### YA2090 Radiator Cap Wrench

- Grips and removes radiator caps with or without wings
- 7 1/2"

#### YA9190 Universal Radiator Drain Plug Socket

- Double slotted end of this 3/8" drive socket will fit most radiator drain plugs that have thumb wings
- Will fit Acura, Honda, Toyota, Lexus and other imports

#### 2009FPI Freeze Plug Installer Kit.

- 18 1/2" long installing tool with ball type swivel for easy positioning
- 7 installer heads in 20, 25, 30, 35, 40, 45, and 50mm sizes

#### YA7747 Pneumatic Adaptor

- Speeds freeze plug installation
- Use with 2009FPI Installer Kit
- 401" Parker-style shank enables use with air hammers

#### CG25 Freeze Plug Puller.

- Freeze plugs up to 2" in diameter
- 1/4" thick yoke receives 2 7/8" long self tap screw
- Drill 17/64" hole first

#### LDTSP4 Quick Disconnect Fittings Set.

- Includes sizes 3/8", 1/2", 5/8"-30% and 5/8"-39%
- Applications: 1996 and newer GM vehicles, many 2004 and newer Daimler Chrysler vehicles, some 2005 and newer Mercedes vehicles, V-Rod, Freightliner, Peterbilt, Volvo and White. Handy spring-action keeps the tool on the line for ease of use. Teeth fit perfectly into tight tolerance of Jiffy-tite connectors. When rotated, allows the line to be pulled without damage to the connector or retaining clip. Fits the most popular Jiffy-tite fittings found on oil cooler lines used on transmissions and radiators and on other applications



**WARNING**



• Read safety precautions on pages 594 to 597



# AIR CONDITIONING

## Testers



AF102

### Antifreeze and Coolant Testers

#### AF102 Antifreeze Hydrometer.

- Degree of protection indicated by direct reading—no temperature compensating scales required
- Range of +32°F to -60°F
- Includes Celsius scale range
- Tests hot and cold solutions

#### EETA305B Refractometer Blue-Point®.

- Quickly and accurately determines the freezing point of propylene and ethylene glycol-based antifreeze
- Gives indication of the charge level in battery acid
- Focusing eyepiece provides an easy to read scale
- Includes steel and glass constructed head and prism, rubber finger grip and focusing eyepiece with eyecup
- Specification range: -50°F to 32°F propylene glycol, with 10° divisions; -60°F to 32°F ethylene glycol, with 10° division



EETA305B



YAUVCOOL



GDCT16

### Leak Testers Blue-Point

#### YAUVCOOL Leak Detector Fluid.

- Six 1 oz. bottles of dye for coolant systems for use with ACTUVLITEA
- GDCT16 Combustion Leak Tester.**
- Easy and quick way to diagnose engine overheating problems
- Check for leaks between the combustion chamber and the cooling system
- Test head and gasket for combustion leaks before removing radiator
- For use on water cooled gas and diesel engines
- Kit includes complete test chamber, 16 oz. bottle of testing fluid and instructions

#### GDCT161 Leak Detector Fluid.

- 16 oz. bottle of leak testing fluid for the GDCT16 combustion leak tester



SVTS262C



SVTS263

### Cooling System Testers

#### SVTS262C Cooling System Tester.

- Test pressure caps and cooling systems for leaks on a wide variety of domestic and import vehicles
- Cap has rotating lever for fine pressure adjustment
- Set features hand pump and tester head with 12" hose that reads in both psi and kPa
- Improved material in pump head is corrosion resistant
- Includes SVT262-28A, TA36GMA and TA38C radiator adaptors plus storage case
- Reference SVT262C instruction sheet for complete listing of applications

#### SVTS263 Cooling System Pressure Tester, Air Powered.

- Air powered upgrade to SVTS262C hand pump cooling system tester
- Includes 3 common cooling system adaptors: TAB10036, SVT262-28A and TA38C
- Uses pressure regulated shop air to pressure test cooling systems for leaks
- Sensitive pressure regulation allows safe testing of small systems
- Fills large systems in seconds
- Stainless steel and chrome plated components for a lasting finish
- Compatible with most commonly used cooling system adaptors
- Safety spring release cap assembly limits pressure to no more than 32 psi
- Convenient swivel hook allows unit to be hung from under vehicle hood

# AIR CONDITIONING

## Tester Accessories



## Cooling System Tester Accessories

Radiator adaptors and cap adaptors listed below can be used with the SVTS262 Series and SVTS263 cooling system testers. See SVTS262C cooling system tester instruction manual for complete listing of specific model year applications.

Radiator Adaptor	Cap Adaptor	Application
SVT262-28A	SVT262-29	Acura, Chevrolet, Chrysler/Dodge/Eagle/Plymouth, Ford/Lincoln/Mercury, Geo, Honda, Hyundai, Infiniti, Isuzu, Lexus, Mazda, Mitsubishi, Nissan, Subaru, Suzuki and Toyota
TA16B	TA23A	VW and Audi
TA18B	TA26A	Volvo, Saab, Jeep, Sterling and Renault
TA27		Volvo large trucks with 63mm x 3mm threaded filler neck
TA31A	TA30A	VW
TA32A	TA33A	Buick, Cadillac, Chevrolet, Ford, International, Mercedes, Oldsmobile, Pontiac and Saturn
TA34A	TA246A	Ford, Jaguar, Pontiac, Porsche, Range Rover and Saab. Use with TA246A cap adaptor
TA36GM	TA37	Cadillac, Chevrolet, Geo, GMC, Pontiac, Oldsmobile and Saturn. Use with TA37 cap adaptor
TA38C	TA39A	Acura, Chevrolet, Chrysler, Geo, Honda, Isuzu, Lexus, Mazda, Mitsubishi, Suzuki and Toyota. Use with TA39A cap adaptor
TA41	TA40	Audi and VW. Use with TA40 cap adaptor
TA44	TA45	Mercedes
TA46	TA47	Ford, Jaguar and Mazda. Use with TA47 cap adaptor
TA48	TA49	Toyota
TA50		Volvo large trucks with 48 x 3mm male thread on filter neck

Radiator Adaptor	Cap Adaptor	Application
TA52	TA53	Mazda 3 (2004 and later) and Volvo S40/V50 (2004 and later)
TA54		Freightliner trucks with 60 x 3mm male thread on filter neck
TA56	TA57	Cobalt SS (2005 and later) and Saturn Ion Redline (2004 and later) with Supercharger cooling systems
TA58		2007 Dodge Sprinter Van with 42mm x 2.5mm thread on filler neck
TA445	TA446	BMW 3-series (2006 and later) and 5 and 6-series (2005 and later)
TA4503		1980s GM X and J body cars
TA245A	TA246A	BMW and Mercury. Use with TA246A cap adaptor
TA345A	TA346A	BMW and Range Rover
TA450A	Truck Adaptor Set	For trucks with "B" size (2 11/16" OD) filler neck adaptors. Includes A450-1A rubber plug.
TA4505	TA4504	For trucks with "B" size (2 11/16" OD) filler neck adaptors
A450-1A	Rubber Plug	Use with TA450A truck adaptor kit or as a replacement plug for A4503A GM adaptor kit
A450-2A	Rubber Gasket	Use with TA450A truck adaptor kit or as a replacement gasket for A4503A GM adaptor kit
A4503A	GM Adaptor Set	Tests system pressure on closed cooling systems on GM 2.5L "X" body cars and 1.8L "J" body cars



**WARNING**



• Read safety precautions on pages 594 to 597

# AIR CONDITIONING

## Tester Accessories



TAB10022



TAB10025



TAB10031



TAB10034



TAB10036



TAB10245



TAB10041



TAB10044

## Cooling System Adaptor Sets Blue-Point®

Radiator Adaptor	Applications
TAB10022	VW, Audi and Porsche
TAB10025	Volvo, Saab and Jeep
TAB10031	VW 1990-1998
TAB10034	Ford, Jaguar, Saab and Saturn
TAB10036	GM, Ford, Jaguar, Mazda and Nissan
TAB10041	VW, Audi and Porsche
TAB10044	Mercedes-Benz and Chrysler
TAB10046	Ford, Jaguar and Mazda
TAB10048	Toyota Celica and MR2
TAB10052	Mazda and Volvo
TAB10056	Chevy Cobalt and Saturn Ion
TAB10245	Pre-1988 BMW and Mercury
TAB10345	BMW 1988 to 2006 and Range Rover
TAB10445	BMW 2005 and later



TAB10046



TAB10048



TAB10345



TAB10052



TAB10056



TAB10445



SVTA17000

## Cooling System Adaptor Set

### SVTA17000 Cooling System Adaptor Set.

- Supplemental adaptor set to the SVTS262C cooling system tester kit
- 17 high quality metal construction adaptors cover vehicles through 2006
- Includes SVT262-28A, TA16B, TA18B, TA31A, TA34A, TA36GM, TA38C, TA41, TA44, TA46, TA48, TA52, TA56, TA245A, TA445 and TA4503 adaptors
- Storage case (PBSVTA1417) has extra storage compartments for the pump and gauge assembly from the SVTS262C kit

### PBSVTA1417 Storage Case.

- Storage case for SVTAB1400 and SVTA17000 sets
- Removable cover for display

## Truck Cooling System Adaptor Sets

### SVTA6100 Large Truck Cooling System Adaptor Set.

- Designed for use with the SVTS262C but compatible with virtually any cooling system tester
- Ideal for servicing large trucks (Volvo, Kenworth, Freightliner and more)
- Pressure test the 8 different filler necks found on modern large trucks when combined with the pump and TAB10036 adaptor from the SVTS262B, SVTS262C or SVTS263 sets
- Can also be combined with the SVTS263 air powered cooling system pressure tester to provide virtually 100% truck coverage
- Includes TA27, TA50, TA54, TA32A, TA4505 and TA58 adaptors plus instruction manual in PBSVTA600 storage case



SVTAB1400

### SVTAB1400 Cooling System Adaptor Set Blue-Point.

- TAB series adaptors feature a composite metal/plastic construction for a lower cost option
- Includes 14 radiator composite metal/plastic radiator adaptors
- Storage case has extra storage compartments to accommodate the pump and gauge assembly and original 3 adaptors from the SVTS262C set
- Includes all TAB series adaptors plus TA4503 adaptor
- Consult instruction manual for a complete listing of all applications



SVTA6100



### Cooling System Testers (Bladder Sealing System) Blue-Point®

#### SVT275 Cooling System Tester.

- Inflatable bladder sealing system enables use with most passenger and light commercial vehicles
- Tests header tanks and radiator systems as well as thread type and bayonet-style caps
- Locate leaks from head gaskets, radiator and heater cores, Welch plugs and housings, water pumps and hoses
- Test cap relief pressure and seal condition
- Suitable for marine applications
- Fluid drain tube allows coolant to be returned to reservoir or safely collected for recycling
- Cycle tested to over 1,500 inflations
- Set includes SVT2751 thru SVT27514 (14 pcs) plus air supply hose and instruction manual in storage case

Stock No.	Description	Application
SVT2751	Pressure Pump	—
SVT2752	Gauge, 0 to 30 psi (0 to 207 kPa)	—
SVT2753	Spare Bladder	—
SVT2754	Valve Seal Kit	—
SVT2755	Head Assembly	—
SVT2756	Neck Extension (Blue)	VW header tanks
SVT2757	Neck Extension (Red)	Japanese micro vehicles
SVT2758	Neck Extension (Black)	Audi/VW header tanks
SVT2759	Cap Adaptor (Blue)	Standard bayonet, Ford header tank, GM N-body
SVT27510	Cap Adaptor (Yellow)	Jeep, Saab, Audi/VW external thread header tanks
SVT27511	Cap Adaptor (Green)	Small Japanese deep, Audi/VW internal thread header tanks
SVT27512	Cap Adaptor (Red)	Small Japanese shallow, late model Audi/VW external thread header tanks
SVT27513	Cap Adaptor (Orange)	Late model BMW, Land Rover and Range Rover
SVT27514	Cap Adaptor (Gray)	Late model Mercedes with thread type



SVT275

### Hose Cutters and Removers Blue-Point

#### YA9344 Heater Hose Disconnect Tool.

- Removes heater hoses with 3/4" or 5/8" quick disconnect couplings from rear heater core on 1987 and later Dodge Caravan and Plymouth Voyager vans
- Gets into difficult access area next to firewall on 1986 and later Ford Aerostar vans plus 1990 and later Ford Econoline vans



YA9344

#### YA1000A Multi Cutter.

- Ideal for cutting heater hoses, fuel line hoses, copper wiring, PVC pipes, wiper hoses and air brake hoses, plus any resilient or semi-resilient material with a 0" to 1 1/8" diameter
- Comfort contoured handles with plastic grips
- Wire loop for safe storage: 9 5/8" long



YA1000A



PWC60

#### PWC60 Compound Leverage Hose Cutter.

- 8 1/2" compound action multiplies normal hand pressure to easily slice through rubber and plastic hose up to 1 1/8" in diameter
- Includes stainless steel cutter blades and internal components



HCR1

#### HCR1 Heater Hose Coupler Removal Tool.

- Removes broken heater hose couplers on GM engines
- Can be used with an impact wrench

### Fan Clutch Wrenches/Pulley Holders Blue-Point

#### YA9325 Ford Fan Clutch Wrench Set.

- 36 and 58mm set
- Includes YA9325-1 and YA9325-2. Applications: E-Series trucks 4.9L (1984-1991), F-Series trucks 4.9L (1984-1992), Bronco II and Ranger 2.8L (1984-1985), Ranger 2.9L (1986-1992), Aerostar 3.0L (1986-1988), Aerostar and Ranger 4.0L OHV (1990 and later), Explorer 4.0L OHV (1991 and later), Mazda Navajo 4.0L OHV (1991-1994), Mazda B4000 4.0L OHV (1995 and later), Explorer 4.0L V6 SOHC (1997 and later) and Mountaineer 4.0L V6 SOHC (1998 and later)



YA9325

**YA9325-1 Metric Flat Wrench.** 36mm wrench size, 343mm long.

**YA9325-2 Crowfoot Wrench.** 58mm wrench size, 58.7mm long.

**YA9521 Flat Wrench.** 36/48mm wrench size, 356mm long.



YA9521



**WARNING**



• Read safety precautions on pages 594 to 597

# AIR CONDITIONING

## Service Tools



### Fan Clutch Wrenches

#### FCT706 Fan Clutch Wrench.

- Fan clutch wrench for heavy duty truck engines
- Hole pattern on tool aligns with fasteners on fan hub
- Use with open end wrench to remove fan clutch
- 24 1/2" length for maximum leverage
- Applications: International (VT365, T444E, DT466, DT350 and HT530), Ford Power Stroke (7.6L and 6.0L), Detroit Diesel (Series 40) and John Deere

#### YA6180 Fan Clutch Wrench Blue-Point.

- Use on GM and Ford diesel and gas engines with a 48mm fan clutch nut
- Provides extra leverage needed to remove the fan clutch nut
- Overall length of 20 1/8" (511.2mm)
- Head width of 4 1/8" (104.8mm)
- Head thickness of 3/8" (9.5mm)



HCP48CP

HCP9

### Heater Hose Clamp Pliers

#### HCP48CP Mobeas Heater Hose Clamp Pliers.

- 8"
- For 3/4" to 2" diameter clamps
- Jaws close to within 1/8"

#### HCP9 Corbin Heater Hose Clamp Pliers Blue-Point.

- 9"
- Removes or replaces all spring wire hose clamps
- Deep slotted jaws swivel 180° and lock in 3 different positions

### Fan Clutch Wrenches/Pulley Holders Blue-Point®

#### YA9526 Ford Fan Clutch Wrench.

- 40mm open end wrench
- Use with YA9325-2 or YA9522
- Applications include 4.9L Econoline vans (1992-1996) and 4.9L F-Series pickups (1993-1996)

#### YA9980 Water Pump Fan Clutch Pulley Holder.

- Use on vehicles with pressed-on pulleys
- Use on GM (4.8L V8, 5.3L V8, 6.0L V8 1999 and later) and Chrysler (3.9L V6, 4.7L V8, 5.2L V8, 5.9L V8, 8.0L V10 1998 and later)
- Cannot be used on Chrysler 4.7L V8 using factory replacement water pumps

#### YA6120 Fan Clutch Wrench Set. Ford/Lincoln/Mercury

Applications: E-Series trucks 4.9L (1984-1991), F-Series trucks 4.9L (1984-1992), Bronco II and Ranger 2.8L (1984-1985), Ranger 2.9L (1986-1992), Aerostar 3.0L (1986-1988), Aerostar and Ranger 4.0L OHV (1990 and later), Explorer 4.0L OHV (1991 and later), Mazda Navajo 4.0L OHV (1991-1994), Mazda B4000 4.0L OHV (1995 and later), Explorer 4.0L V6 SOHC (1997 and later) and Mountaineer 4.0L V6 SOHC (1998 and later). GM Applications: Astro and Safari vans 4.3L, Blazer, Jimmy and Bravada SUV 4.3L, S10, Sonoma and Isuzu Hombre pickups with 2.2L 4 cylinder and 4.3L V6, C1500, C2500, C3500, K1500, C1500/C2500/C3500/K1500 Sierra pickups, G1500/G2500 Chevy Express, G1500/G2500 Savana vans 4.3L V6, 5.0L V8 and 5.7L V8; and Suburban, Tahoe, Yukon, Escalade, Denali and Envoy 5.7L V8.

#### YA6160 Universal Fan Clutch Pulley Holder.

- Removes and replaces the fan clutch on vehicles using "bolt-on" water pump pulleys
- Reverse pulley holder for assembly operations
- Use with YA9521 36/48mm wrench or YA9526 40mm wrench for many Chrysler, Ford, Lincoln, Mercury and GM applications

#### YA6210 BMW/Audi/VW Fan Clutch Wrench.

- 32mm fan clutch wrench is used with YA6160 fan clutch pulley holding tool to service Audi vehicles (1996 and later), VW Passat 3.0L V6 (1998 and later) plus BMW 3, 5, 6, 7, 8, X and Z series vehicles
- YA6160 works on all models listed except 4.0L and 4.4L V8 engines
- Made from heat treated steel
- Overall length of 17" (431.8mm)



HCP10

HCP20

#### HCP10 Mobeas Heater Hose Clamp Pliers Blue-Point.

- 9"
- Same as HCP9, except for new style hose clamps found on GM, Ford, VW, BMW, Toyota, Volvo and Audi cars

#### HCP10RK Service Kit Blue-Point.

- Includes 1 pair of replacement tips plus a replacement spring for HCP10

#### HCP20 Mobeas Heater Hose Clamp Pliers Blue-Point.

- For heater and radiator hoses found on 1988-1990 GM, Ford, Chrysler and most imports
- Jaws pivot to almost any angle



YA497A



PHP1



PHP3



SHCP1

### Heater Hose Clamp Pliers Blue-Point®

#### YA497A Hose Removal Pliers.

- Simplify removal of 5/32" to 1/2" vacuum and fuel hoses
- 8" in overall length

#### PHP1 Hose Clamp Pliers.

- Clamp off hoses up to 1 1/4" in diameter
- Swivel jaws for parallel clamping action
- 9 1/4" in overall length

#### PHP2 Hose Clamp Pliers.

- Clamp off hoses up from 1 1/4" to 2 3/4" in diameter
- Swivel jaws for parallel clamping action
- 4 3/8" jaw length
- 14" long

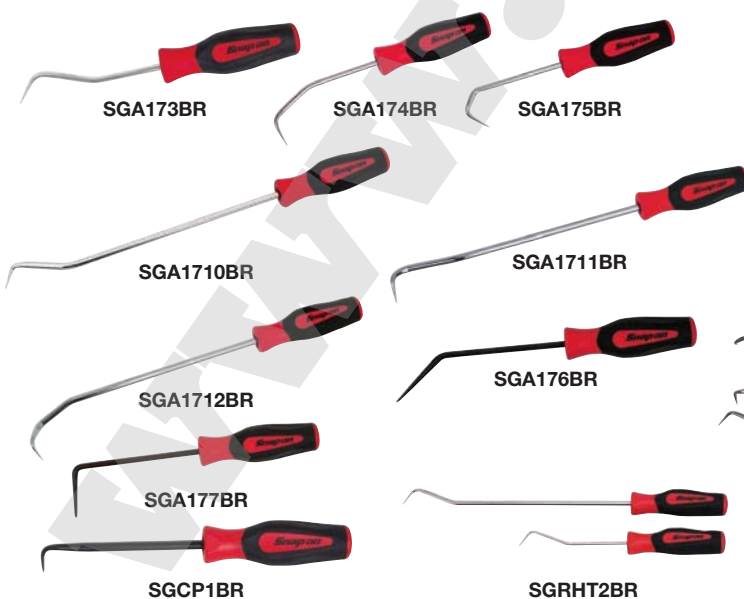
#### PHP3 Hose Clamp Pliers.

- Clamp off hoses up to 3/4" in diameter
- Swivel jaws for parallel clamping action
- 1 1/4" jaw length
- 5 1/2" long
- Black industrial finish

### Soft Grip Hose Picks

- Ideal for removing and replacing hoses and clamps
- Unique hose blade design for getting around the most difficult obstacles
- Soft, solvent resistant handle material provides a sure, comfortable grip

Stock No.	Finish	Blade Length, inches (mm)	Length, inches (mm)
SGA173BR	Chrome	5.43 (137.9)	10.33 (262.4)
SGA174BR	Chrome	4.94 (125.5)	9.84 (249.9)
SGA175BR	Chrome	4.61 (117.1)	9.51 (241.6)
SGA1710BR	Chrome	11.66 (296.1)	16.56 (420.6)
SGA1711BR	Chrome	10.89 (276.6)	15.79 (401.1)
SGA1712BR	Chrome	11 (279.6)	15.91 (404.1)
SGA176BR	Industrial Finish	5.62 (142.9)	10.50 (266.7)
SGA177BR	Industrial Finish	4.12 (104.7)	9.00 (228.6)
SGCP1BR	Industrial Finish	3.75 (95.3)	8.50 (215.9)



**WARNING**



- Plastic coated handle does not protect from electric shock
- Read safety precautions on pages 594 to 597

### Heater Hose Clamp Pliers

#### SHCP1 Hose Clamp Pliers.

- Unique jaw design will work on all 3 styles of hose clamps in the automotive market (standard, space saver & pre-opened)
- Bi-mold grips provide more comfort and control while reducing hand fatigue
- Cable snap provides an easy storage feature
- Round base ratcheting system provides a larger catching surface area on the locking feature
- Lock lever has 2 matched locking gears with a deep cut to prevent slipping and wearing
- Flexible cable reaches into tight places with minimal effort

#### SGA173BR Radiator Hose Pick.

- Use for easy access applications

#### SGA174BR Radiator Hose Pick.

- Perfect for tight access firewall applications

#### SGA175BR Radiator Hose Pick.

- Ideal for getting behind hoses and pulling

#### SGA1710BR Radiator Hose Pick.

- Longest pick for extra reach

#### SGA1711BR Radiator Hose Pick.

- Length and angle are designed for tight access and long reach firewall applications

#### SGA1712BR Radiator Hose Pick.

- Long pick easily maneuvers around obstacles

#### SGA176BR Radiator Hose Pick.

- 45° pick for restricted access applications

#### SGA177BR Radiator Hose Pick.

- 90° pick for restricted access applications

#### SGCP1BR Cotter Pin Puller.

- Make short work of pulling even large pins
- Heat treated shank provides maximum strength
- Soft grip handle: 8 1/2" long

#### SGRHT2BR Radiator Hose Pick Set.

- Includes SGA173BR and SGA1710BR

#### SGRHT6BR Radiator Hose Pick Set.

- Includes SGA173BR, SGA174BR, SGA175BR, SGA1710BR, SGA1711BR and SGA1712BR

#### SGRHTLB3BR Radiator Hose Pick Set.

- Includes SGA176BR, SGA177BR and SGCP1BR