



KA-5138 Calibrated Ignition Tester (HEI SYSTEM)

- Use to accurately check for spark in ignition systems without removing spark plug from engine
- Verifies that energy is sufficient for spark plug to fire if voltage on hei tester is great enough the center electrode is not used.
- To use attach spark plug wire to tester end. Clamp tester to engine as ground. Crank engine and check for spark.
- Caution: wear safety goggles.



KA-5139 Calibrated Ignition Tester

(STANDARD IGNITION SYSTEM)



KA-5170 Spark Plug Tester

- Plastic shockproof construction
- Check dead spark plugs in automotive, if ignition circuit is complete, bulb will flash.
- Suitable for all spark ignition engines. Quick and simple fault diagnosis.

Brake Fluid Tester

KA-1033 (Round Type)

KA-1033A (Flat Type)

The tester can be used as a digital brake fluid tester suitable for determining brake fluid quality. Developed for professional use in automotive repair shops and in servicing. Quality it tested and indicated on five LEDs in terms of "per cent of water in the brake fluid".

Ready for Brake Fluid Test

- Unscrew the brake fluid reservoir, and pull off the cap of the brake fluid tester.
- Dip the test probes into the brake fluid up to the plastic rim of the device.
- Battery(incl): one 1.5V, type AAA

To Check Fluid Quality

Press the button for power on, green LED will light up. Insert the tester into reservoir for one second then the test result will be correctly indicated by LEDs.

The tester will automatically power off after 12 seconds of inactivity.

Product Labelling Indication

Green: Battery OK, i.e: no water contained in the brake fluid.

Yellow: Less than 1% of water content in brake fluid.

Yellow/Yellow: Approx 2% of water content in brake fluid.

Yellow/Yellow/Red: Approx 3% of water content in brake fluid. The brake fluid should be changed.

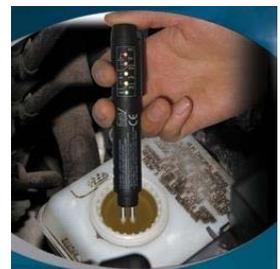
Yellow/Yellow/Red/Red: At least 4% of water content in brake fluid. The brake fluid must be changed urgently!



KA-1033 (round type)



KA-1033A (flat type)



KA-3489BF Brake Fluid Tester



This tester can be used as a digital brake fluid tester suitable for determining brake fluid quality. Developed for professional use in automotive repair shops and in servicing.

- Length: 125mm
- Compact and Accurate
- Easy to Use
- CE, RoHS Conformity

Operation

- Press switch to turn on- green LED illuminates to indicate battery OK (red LED replace battery).
- Note: Tester has auto-off function
- Immerse probe of the tester into brake fluid (probe tip must be at least 10mm above bottom of fluid reservoir).
 - Green LED= Brake Fluid H₂O<1.5%
Brake Fluid OK/ Battery OK
 - Yellow LED= Brake Fluid H₂O<1.5~3%
Low percentage of water
Change again within 6 months
 - Red LED = Brake Fluid H₂O>3%
Change Brake Fluid

Battery Installation:

- Remove switch cap
- Withdraw circuit board
- Fit battery - positive towards LED.
- Slide circuit board into case, ensuring it engages in slots on side of case.
- Lay back switch cap.

Calibration Check:

To confirm correct operation, immerse probe in plain water, red LED will illuminate if tester is operating correctly. REMEMBER TO DRY TESTER BEFORE USING IN BRAKE FLUID.

* Wear Eye, Face and Hand Protection when Testing the Brake Fluid.



KA-3338 Battery Tester

- Avoid dead battery and help to extend battery life
- Test battery life hot or cold detects overcharge.
- Applicable: 6, 12, 24 Volts systems.



KA-3339 Anti-Freeze Tester

- Avoid winter freeze-ups and summer boil-over.
- Test all permanent (Ethylene Glycol) solutions with radiator hot or cold.
- Two scales show freeze point of radiator solution and boiling point of summer coolant.



KA-3252B



KA-3252A



KA-3253



KA-3254

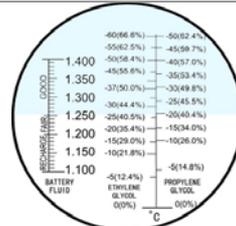
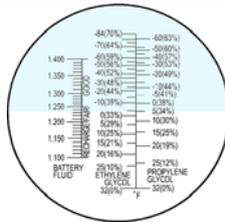
ANTI-FREEZE TESTER

- KA-3252B Length: 8-1/2" , packing: color box
- KA-3252A Length: 8-1/2" , packing: blister card
- KA-3253 Length: 7" , packing: blister card
- KA-3524 with thermometer

Battery / Antifreeze / Wiper Fluid



ITEM NO.	Measuring Range:				Resolution Factor:				Size	Weight (KG)	Remark
	Ethylene Glycol	Propylene Glycol	Battery	Cleaner	Ethylene Glycol	Propylene Glycol	Battery	Cleaner			
KA-4125	-84~32°F	-60~32°F	1.100~1.400sg	--	5°F	5°F	0.01sg	--	15.3cm X Ø2.9cm	0.23	Without ATC
KA-4125ATC	-84~32°F	-60~32°F	1.100~1.400sg	--	5°F	5°F	0.01sg	--	15cm X Ø2.9cm	0.24	ATC
KA-4126	-60~0°C	-50~0°C	1.100~1.400sg	--	5°C	5°C	0.01sg	--	15.3cm X Ø2.9cm	0.23	Without ATC
KA-4126ATC	-60~0°C	-50~0°C	1.100~1.400sg	--	5°C	5°C	0.01sg	--	15cm X Ø2.9cm	0.23	Without ATC
KA-4127	-60~32°F	-60~32°F	1.15~1.30sg	--	10°F	10°F	0.01sg	--	15.7cm X Ø2.9cm	0.23	Without ATC
KA-4128	-50~0°C	-50~0°C	1.15~1.30sg	-40~0°C	5°C	5°C	0.01sg	5°C	15.7cm X Ø2.9cm	0.23	Without ATC
KA-4129	-50~0°C	-50~0°C	1.100~1.400sg	-40~0°C	5°C	5°C	0.01sg	5°C	15.3cm X Ø2.9cm	0.23	Without ATC
KA-4130	-60~0°C	-50~0°C	1.100~1.400sg	--	5°C	5°C	0.01sg	--	--	--	Without ATC
KA-4130ATC	-60~0°C	-50~0°C	1.100~1.400sg	--	5°C	5°C	0.01sg	--	--	--	ATC
KA-4131	-60~32°F	-50~32°F	1.10~1.40sg	-40~0°C	10°F	10°F	0.01sg	--	15.3cm X Ø2.9cm	0.23	Without ATC
KA-4132	-70~0°C	-60~0°C	1.100~1.400sg	--	5°C	5°C	0.01sg	--	15.3cm X Ø2.9cm	0.23	Without ATC



KA-4125

This model has a fairly larger measurement and has only one unit system: °F for freezing point. And it can also measure the concentration of the antifreeze liquids.

KA-4125ATC

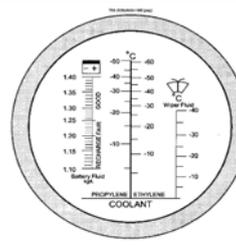
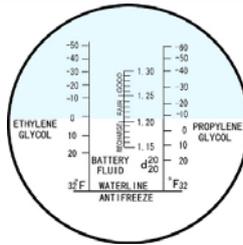
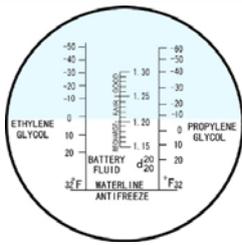
This model has a built-in Auto Temperature Compensation System and it's scale is same as the KA-4125.

KA-4126

This model's usage is same as KA-4125. But it's freezing point unit system is °C.

KA-4126ATC

This model is same as KA-4126. But it has a built-in Auto Temperature Compensation System.



KA-4127

This model can be used for measuring the freezing point of either ethylene glycol or propylene glycol based cooling systems. It can be used for checking the strength of electrolyte solution batteries. It's freezing point unit system is °F

KA-4128

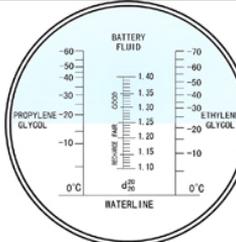
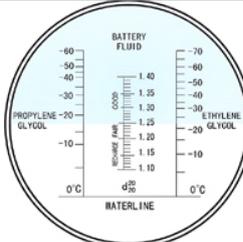
This model is added a scale can measure the freezing point of cleaning fluid. It's freezing point unit system is °C.

KA-4130

This model has a fairly larger measurement and has only one temperature scale: °C for freezing point

KA-4130ATC

This model is same as KA-4130. But it has a built-in Auto Temperature Compensation System.



KA-4129

This model is added a scale can measure the freezing point of windshield cleaning fluid. It's freezing point unit system is °C.

KA-4131

This model's usage is same as the model KA-4127. But this unit provides with two unit systems: °C And °F

KA-4132

This model has a fairly larger measurement and has only one temperature scale: °C for freezing point. And it can also measure the concentration of the antifreeze liquids.

Infrared Thermometer

KA-TN102



KA-TN159



KA-TN103



KA-TN104



KA-TN153



KA-TN15A



KA-TN105i2



KA-TN105C



KA-TN110
KA-TN110RB (with rubber)



KA-TN185



Model No	KA-TN102 KA-TN159 KA-TN104 KA-TN15A	KA-TN102B KA-TN103 KA-TN153	KA-TN110RB KA-TN110	KA-TN105i2	KA-TN105C	KA-TN185
Measurement Range	-55°C ~ 220°C (-67 ~ 428°F)		-33°C ~ 220°C (-27.4 ~ 428°F)	-55°C ~ 220°C (-67 ~ 428°F)		-55°C ~ 250°C (-67 ~ 482°F)
Operating Range	-10 ~ 50°C (14 ~ 122°F)					
Accuracy (Tobj=15-35°C, Tamb=25°C)	±0.6 °C					
Full Range Accuracy	±0.2°C of reading or 2°C (whichever is greater)				-55 ~ 0°C: ±(2+0.05/deg)°C, above 0°C, ±2°C or ±2°C of the reading, whichever is greater	
Resolution (-9.9-199.9°C)	0.1°C / 0.1°F					
Distance: Spot			1:1			5:1
Emissivity Range	0.05 ~ 1.00		0.95 Fixed	0.05 ~ 1.00		
Wave Length	5µm ~ 14µm					
Power Supply	CR 2032 x 1					



KA-CHY122 Infrared Thermometer

Temperature Specifications

- Sensor: Thermopile (6-14µm)
- Range: -30°C to 300°C (-22°F to 572°F)
- Resolution: 0.1/1°C (auto), 1°F
- Response Time: 0.5 second
- Accuracy: ±(0.6°C / 1.2°F) on 20°C to 40°C (68°F to 104°F)
±(1°C/2°F) on 40°C to 120°C (104°F to 248°F) ±2°C or 2% in rest of range.
- Emissivity (ε): 0.1 to 1.0
- Field of view: 1 @ φ1.1cm



KA-1027 In/Outdoor Thermometer with Backlight

- Freeze Alert
- °C/°F selectable
- Measuring range: indoor temp. -0 ~ +50°C
Outdoor temp. -50 ~ +70°C
- Easily Mounter
- Clock display
- Requires one AAA or Lr03 battery (not included)



KA-1038 Infrared Thermometer

Main functions:

- Laser indicator
- Changeable between °C and °F
- Temperature range: -20 ~ 500°C
- Operating temperature: 0 ~ 50°C
- Relative humidity: 10% ~ 95% RH not condensing
operating humidity: max. 80% RH storage

Technical specification:

- Resolution: 0.1°C (0.1°F)
- Storage temperature: -20°C ~ 50°C
- Response time: 0.8 second
- Precision: ±2.5% or ±3°C
- Distance to spot ratio: 10:1
- Power supply: 9V battery
- Laser classification: output < 5mW Class IIIa
output < 1mW Class II or 2

KA-1030 Wireless Thermometer & Hygrometer & Temperature Emitter

KA-1028 Wireless Thermometer & Hygrometer

Large LCD display of clock, interior/exterior temperature and humidity.

- Clock: time format of 12hr or 24HR for selection.
- Indoor temperature: 0°C ~ 50°C (32°F ~ 122°F)
- Indoor humidity: 20% ~ 95%
- The testing period for indoor temperature and humidity is 20 seconds, and for outdoor temperature is 80 seconds.
- Alarm clock
- Outdoor temperature: it could receive 3 exterior temperature at most, temperature range: 0.0°C ~ 50.0°C
- Storage of MAX-MIN temperature and humidity.
- Requires two AAA batteries (not included)

KA-1029 Wireless Temperature Emitter

- Temperature measuring range: 0°C ~ 50°C
- The measured data will be transmitted by RF, and there will be indicated on both LCD and LED while transmitting.
- Temperature measuring period is 80 seconds.
- Low voltage indication: while the battery voltage lower than 2.5V
- Resolution: 0.1°C, Accuracy: ±1°C
Temperature unit of °C and °F for your selection.
- There are selectable 3 channels to display temperature, by slide switch to select (CH1; CH2; CH3) (This operation is effective while reinstall of battery or press reset button)
- Reset function.
- Requires two AAA or LRO3 batteries (not included).



KA-1028

KA-1029

Petrol Engine Testing & Cleaning Kit

KA-6780



KA-6780K



KA-6692K



KA-6692KN



* For All Petrol Engine Cars

- Clean the following parts: Intake Valve, Combustion Chamber, Vacuum Hose
- Test the following parts: Engine System Pressure, Petrol Pump Pressure, Vacuum System Pressure

* Fuel Injector

The opening of the fuel injector is as thin as the human hair. The accumulation deposits at the tip would affect and upset the air/fuel mixture.

- The Problem Symptoms:
 - Stumble during acceleration. Power Loss.
 - Emissions of Hydrocarbons and Carbon Monoxide Increases.

* Intake Valve

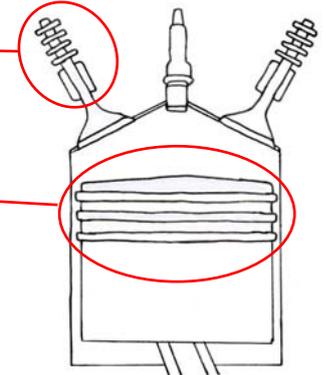
While the engine is warming up, the intake valve absorbs fuel and leaves out the air/fuel mixture.

- The Problem Symptoms:
 - Poor Driveability. Power Loss.
 - Emissions of Hydrocarbons and Carbon Monoxide Increases.

* Combustion Chamber

As the deposits keep accumulating, the compression temperature increases, and lead to auto-ignition of the air/fuel mixture.

- The Problem Symptoms:
 - Poor Acceleration, Run-On, Knocking, Pinging, Octane is increasingly required.
 - Emissions of Nitrogen Oxide increases.



NEW TYPE	OLD TYPE
	
The removable pin can avoid the cleaner from flowing during installation.	Regular Valve
☆ SPECIAL FEATURE ☆	
<p>KA-6692KN A new upgrade design for cleaning the carbon deposit for fuel injector. KA-6692KN is made with Pressure Adjusting Device which also adjusts the flow rate, so only adequate amount of cleaner flow through, to avoid ignition difficulties caused by too little or too much of cleaner.</p>	

Re-Discover The Power of Your Car Engine

Before



After





KA-7230B Leak-Check Kit w/o Fluid

Detects certainly cracks and water leaks on cylinder heads, seals and engine blocks. The test detector will color immediately if there are leaks.



KA-7230C Leak-Check Kit With Fluid 250c.c.



KA-7230D Cylinder Leakage Test Kit 250c.c.

- Test chamber with rubber cone
- A rubber bulb & a brass adaptor
- # 3 radiator cap : Mercedes (W123 、 W126 、 W124 、 W201) 、 GM(Buick) 、 Jeep
- # 4 radiator cap : Peugeot, Subaru, Chrysler, Acura, GM (Nova, Spectrum, Sprint), Mitsubishi, Nissan, Mazda, Toyota, Infiniti, GEO, Suzuki, Isuzu, Mercedes
- # 5 radiator cap : Honda, Toyota, Suzuki, Mitsubishi, Chrysler, Acura



KA-2401 Universal Independent Engine Cylinder Leakage Tester

Design for workshop service people easy to check the common engine cylinder condition by oneself.

Set contains a support holder capable of holding an axle center of an engine crankshaft stationary, and consisting of a base, a frame, an adjusting plate and a coupling member; a leakage-detecting device adapted to detect leakage of an engine, and having 3 connectors and a connector-tube assemble provided with a pressure gauge and a switch. Quickly find worn valves 、 crack in cylinder walls 、 worn cylinder seal.

Easy check engine leakage, convenient in operation by a single person..

The other engine cylinder leakage testers need two peoples (one people operates tester, another one holds crankshaft). The adjusting plate design allows the operator to make an adjustment to required position.

Test Procedure:

1. Run engine until achieves normal operating temperature.
2. Take out spark plug and rotate the crankshaft to cylinder TDC.
3. Use **engine crankshaft support holder** to support the crankshaft pulley center bolt stationary. (Fig. 1-8)
Firstly, place the support holder on the ground. Secondly, adjust the height of the adjusting plate to make the location hole aligned to the axle center of the engine crankshaft, and then screw the nuts with the studs of the frame tightly. Thirdly, insert one end of the coupling member through the location hole of the adjusting plate, fit the other end of the coupling member into a general socket, and then couple the general socket over an axle center of an engine crankshaft tight so as to hold the axle center of the engine crankshaft stationary to prevent the crankshaft from rotation.
4. Choice applicable connector to screw in spark plug hole (Fig. 9) then quick-coupling gauge assembly (Fig.10, 11, 12)
5. Supply workshop compressed air into cylinder.
6.
 - a. If crack in cylinder walls.
You will find leakage air sound from oil dipstick tube or bubbles in the water cooling system.
 - b. If worn valves.
You will find leakage air sound from intake/exhaust manifold.
 - c. If worn seal between cylinder and piston
You will find leakage air sound from oil dipstick tube.



KA-7301 12 Volt UV Detection Light

For air condition leakage check



KA-7384 Cylinder Leakage Testers

- PSI & Bar Percentage Gauge
- 26" Extra Long Hose

Allows you to accurately diagnose engine problems such as bad valves, worn rings, cracked cylinder walls and blown gaskets.

Works from shop airline and has 14 & 18mm adaptor fittings to fit most engines. Blow-by readings shown in percentages. Dual gauges allow mechanic to monitor input line pressure. Supplied in plastic blow mold case.



KA-7385 Cylinder Leakdown Tester

Allows you to accurately diagnose engine problems such as bad valves, worn rings, cracked cylinder walls and blown gaskets.

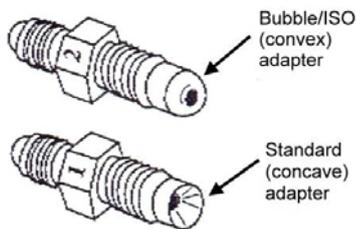
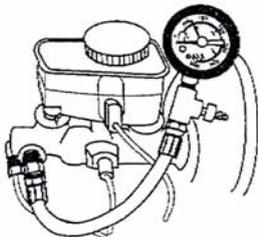
Work from shop airline and has 14 & 18mm adaptor fittings to fit most engines. Blow-by readings shown in percentages. Supplied in plastic blow mold case.



KA-7421B Master Cylinder Pressure Test Kit (Brake & Clutch)

- Gauge: 0 ~ 3000 PSI
- 11 pcs Adapter:
 - A. Pressure Gauge 0 ~ 3000 PSI
 - B. 45° adapter
 - C. 90° adapter
 - D. Master Cylinder Adapters

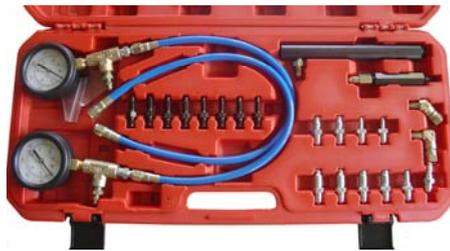
Adapter Code	Thread Specs	Flare Type
1	10 x 1.0	Concave
2	10 x 1.0	Bubble
3	3/8 x 24	Concave
	12 x 1.0	Bubble
5	11 x 1.5	Bubble
6	13 x 1.5	Bubble
7	1/2 x 20	Concave
8	9/16 x 20	Concave
9	1/16 x 24	Concave
10	9/16 x 18	Concave
11	10 x 1.25	Bubble



KA-6640NA Cylinder Compression Test Kit

- Air gauge with quick coupling & release valve.
- High-tension connecting pipe with safety lock coupling
- Crank shaft type test pipe with rubber plug.
- Transverse axis test pipe with rubber plug
- M10 x 1.0 adapter
- M12 x 1.25 adapter
- M14 x 1.25 adapter
- M18 x 1.5 adapter
- Gauge : 0~300PSI
0~21BAR

KA-7421A ABS Brake Pressure Tester Kit

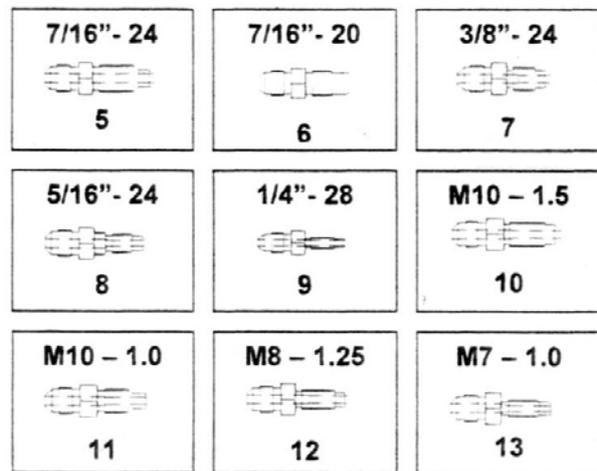
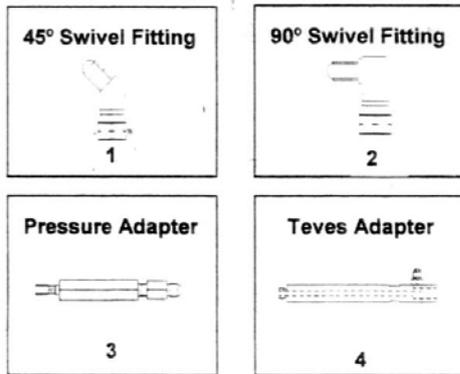


- For ABS system (anti-lock brake system), Non-ABS systems
- Contents:

2 - 3000 PSI Gauge Assembly	2 - 3/8-24 Straight Fitting
1 - Pressure Adapter	2 - 5/16-24 Straight Fitting
1 - Teves Adapter	2 - M10-1.5 Straight Fitting
1 - 45° Swivel Fitting	2 - M8-1.25 Straight Fitting
1 - 90° Swivel Fitting	2 - M10-1.0 Bleeder Adapter
2 - 7/16-24 Straight Fitting	2 - 7/16-20 Straight Fitting
2 - 1/4-28 Straight Fitting	2 - M7-1.0 Straight Fitting
- Caution: Wear approved safety glasses when using the Brake Pressure Test Kits. Do not discount hose under pressure. Pressurized fluid may cause injury.
- The brake pressure test kit tests abs or conventional brake systems for most makes and models.
- Always read instructions carefully prior to use.
- This kit comes complete with steel gauges, plastic lens; brass/steel fittings; high pressure hose.

BLEEDER SCREW REFERENCE CHART

ADAPTER CHART



KA-7530K Transmission Pressure Tester

For all major manufacturer domestic and import vehicles. Set contains two gauge assemblies for high and low pressure ranges. Nine adaptors to test a wide variety of domestic and import automatic transmissions. Four special fittings are also included for connection to hard-to-reach test ports in areas requiring a 45° or 90° angle. All contained in a plastic storage case.



Parts List:

Desc.	Q'ty
0-100 PSI low pressure gauge assembly	1
0-500 PSI high pressure gauge assembly	1
Adaptor hose 1/8-27 NPT	1
Adaptor 1/8-27 to 1/4-18 NPT	1
Adaptor 1/8-27 to 1/8-28 BSPT	1
Adaptor 1/8-27 to M10-1.0	1
Fitting 1/8-27 90° steering elbow	1
Fitting 1/8-27 nipple 2" long	1
Fitting 1/8-27 coupling	1
Adaptor 1/8-27 to M8-1.0	1
Adaptor 1/8-27 to M8-1.25	1
Adaptor 1/8-27 to 5/16-24 NF	1
Adaptor 1/8-27 to 1/16-27 NPT	1
Fitting 1/8-27 45° steering elbow	1
Adaptor 1/8-27 to VW Audi	1

KA-7042A Master Fuel Injection Test Kit

The adapter set tests fuel injection systems on most vehicles: ACCURA HONDA HYUNDAI MAZDA, SUZUKI, TOYOTA, AUDI, BMW, MERCEDES, PUEGOT, PORSCHE, SAAB VW, VOLVO W/ CISE OR K.JETRONI.

CONTENTS:

- | | |
|---------------------------------|---|
| 1 - 1/4x1/4 inch Pipe Plug | 1 - 8mm-1.00 Banjo Bolt Adapter |
| 2 - 5/16x1/4 inch NPT Hose Barb | 1 - 10mm-1.00 Banjo Bolt Adapter |
| 2 - 1/4x1/4 inch NPT Hose Barb | 1 - 12mm-1.25 Banjo Bolt Adapter |
| 1 - 0-50 PSI (0-3.5BAR) Gauge | 1 - 12mm-1.50 Banjo Bolt Adapter |
| 1 - 0-100 PSI (0-7BAR) gauge | 1 - Honda Adapter |
| 4 - Hose Clamps | 1 - 12mm-1.50 Male X 10mm-1.00 Male x 1-9/16 inch Adapter |
| 1 - 5/16 inch Hose | 1 - 12mm-1.50 Male X 10mm-1.00 Female X1-1/4 inch Adapter |
| 1 - 1/4 inch Hose | 1 - 12mm-1.50 Male X 8mm-1.00 Female X 5/16 inch Adapter |
| 1 - Ford Spring Lock Adapter | 2 - 12mm-1.50 Male X 8mm-1.00 Male Adapter |
| 1 - 1/4 inch NPT Tee with Valve | 1 - 12mm-1.50Male X 8mm-1.00 Male X 3 inches Adapter |
| 1 - GM T.B.I. Adapter | 1 - 12mm-1.50 Male x 5/8-18mm-1.5 Male x 1-9/16" Adapter |
| 1 - GM Quick Connect Adapter | 1 - 5/8-18 union |
| 1 - GM 2.2L Adapter | 1 - 12mm-1.5 Male x 16mm-1.5 Male x 1-9/16" Adapter |
| 1 - Ford Hair Pin Adapter | 1 - 16mm-1.5 union |
| 1 - 13 inch Ford Adapter Hose | 1 - 14mm-1.5 union |
| 1 - Bleed-Off Hose | 1 - 12mm-1.5Male x 14mm-1.5 Male x 1-9/16" Adpater |
| 1 - Bosch C.I.S Hose | 1 - 1/4 PT-19 union |
| 1 - Basic Hose, 24 inch | 1 - 12mm-1.5 Male x 1/4 PT-19 Male x 1-9/16" Adapter |
| | 1 - 12mm-1.5Male x 14" -3/8" Hose Barb |

**KA-7236K Fuel Injection Pressure Test**

- A large 3-1/2" gauge with dual readings of 0-145 psi and 0-1000 kpa. Also a low pressure 2-1/2" gauge for an accurate reading below 15 psi.
- All adapters, gauges, and hose assemblies feature a quick coupling system for speedy and efficient testing connection.
- The uniquely designed relief valve relieves the pressure and the fuel safely. Also allows checking for sufficient fuel flow.
- No need for wrenches.
- Come with instruction manual.
- ACCURA, HONDA, HYUNDAI, MAZDA, SUZUKI, TOYOTA, NISSAN, SUBARU, FIAT, BOSCH, JAGUAR, PUEGOT, PORSCHE, RENAULT, VW, VOLVO, TRIUMPH, FORD, PFI, TBI, CHRYSLER, GM, AUDI BMW, BENZ, SAAB, CISE

**KA-7237K Instructions For Multi-Port Fuel Injection Pressure Testing**

Contents of kit:

- Gauge and blow down hose assembly
- Adapter hose for schrader test ports with 7/16-20 threads
- Adapter hose for schrader test ports with .308-32 threads
- Single end hose connector 1/4", 5/16: and 3/8"
- Double end hose connector 5/16" and 3/8"
- 6mm fuel bolt adapter

**KA-7545K Fuel Injection Fitting Kit**

- For European cars
- For Audi, Mercedes Benz, Volkswagen, and other European automotive engines, and diagnose most common fuel system problems involving low fuel pressure and low fuel volume at the injectors. It even works on CIS and CISE systems. Each fitting comes with a quick-connect Schrader valve for asfe, easy hookup to the gauge assembly.
- Fitting seals are compatible with most popular cleaning solvents.

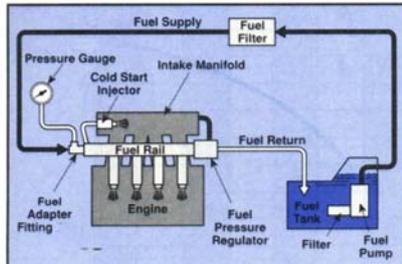




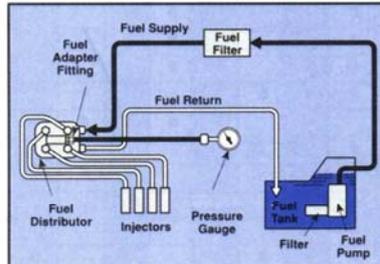
KA-7532K Gasoline Engine Injecting Pressure Tester Kit

SERVICES BOTH IMPORT AND DOMESTIC FUEL INJECTION SYSTEMS.

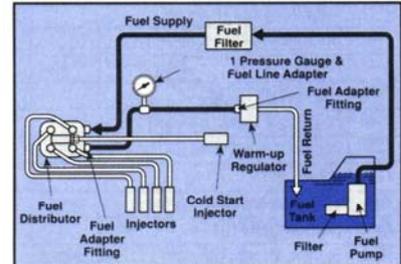
Allows you to diagnose and clean fuel injection systems. Includes all the necessary fittings, hoses, adapters, disconnect tools, and gauges. The newest fuel line disconnect tools included in this set. Use your set to check system pressure, or pair it with fuel injector cleaner to offer complete fuel injection service.



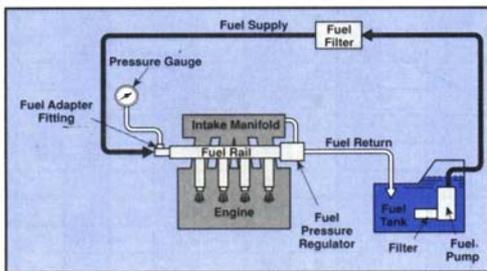
Typical Asian import fuel system connection.



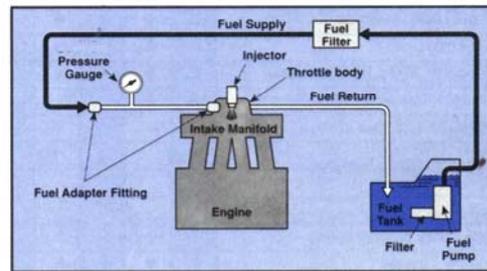
Typical European import CISE fuel system connection.



Typical European import CIS fuel system connection.



Typical domestic fuel system connection.



Typical GM low pressure TBI fuel system connection.



KA-7546K Fuel Injection Fitting Kit

- For Asian cars
- Diagnoses fuel related problems such as hesitation, stumble, stall, and lack power on nearly every Asian import system by simply checking fuel pressure and volume. With just a few quick connections you'll know if the problem caused by low fuel pressure, a defective fuel pressure regulator, low fuel volume to the injectors plus much more.
- Each fitting comes with a quick-connect Schrader valve for safety and easy hookup to the gauge assembly.
- Fitting seals are compatible with most popular cleaning solvents.
- Set includes an organizer and storage tray.
- Operating instructions included.



KA-7370K 3-In-1 Fuel Injection Service Kit

- Cleans injectors.
- Decarbonizes the intake system.
- Checks fuel pressure
- Gauge: 3.5"
- Dual gauge readings: 220PSI/15BAR/15KG/CM²/1500KPa



KA-7663 Fuel Injection Canister Cleaner

- Two gauge design allows vehicle fuel pressure to be checked and cleaned
- Top gauge allows easy setting of cleaning pressure by simply checking the vehicle fuel pressure on the bottom gauge
- Allows for cleaning of carbon from cylinders, intake valves and fuel passages
- Allows cleaning of fuel injectors to restore spray patterns
- Unit uses standard shop air and any professional canister cleaning solution.



KA-7241N Fuel Injection Pressure Test Kit

- The set designed for most Japanese car.
- Model No.: A, D, HE, HN, HO, HP, HQ, HR, HA, HE, F, Repair Kit, Instruction Manual.



KA-7240N Fuel Injection Pressure Test Kit

- The set designed for most European car.
- Model No.: A, D, G, F, AMx2, AE, AI, AT, AA, AB, AL, AG, AK, AC, E, Repair Kit, Instruction Manual.



KA-7376 Instruction For Multi-Fuel Injection Pressure Test Kit

- Gauge and blow down hose assembly
- Adapter hose for Schrader test ports with 7/16-20 threads
- Adapter hose for Schrader test ports with 0.308-32 threads
- Single end hose connector 1/4" , 5/16 and 3/8"
- Double end hose connector 5/16" and 3/8"
- 6mm fuel bolt adapter



KA-2897K

Common Rail Injector Set (return flow pressure measurement tester)

For testing the return flow pressure from common rail injectors of Bosch, VDO/Siemens & Delphi engine system.

Suitable for testing the condition of a piezo pass or fail statement.



KA-7191E Petrol Engine compression Tester Deluxe Kit

KA-7191E includes a large 2-1/2" gauge fitted with protective cover and 445mm hose. The gauge has scale from 0-350 psi (0-25 bar) and conforms to BS 1980-1985. For petrol engines with 10,12,14, or 18mm spark plugs. KA-7191E also includes a long reach adaptor for 16V and V6 engine. The 445mm hose and quick release connector is included for air input.



KA-4365 Oil Pressure Gauge Set

Use on diesel and gasoline engines . Includes standard and metric adaptors for most popular domestic and import cars, trucks, tractors and stationary engines Includes:

1. 0-100 PSI (0-700 kPa) Gauge Assembly
2. Adaptor (1/8-27 to 1/4-18)
3. Adaptor (1/8-27 to 1/-28 BSPT)
4. Adaptor (1/8-27 to M12-1.5)
5. Street Elbow
6. Coupling
7. Hose Assembly
8. Adaptor (1/8-27 to 3/8-18)
9. Adaptor (1/8-27 to 10-1.0)
10. Adaptor (1/8-27 to M14-1.5)
12. 2" Large Nipple



KA-7231A Engine Oil Pressure Tester

- Check engine oil pressure in both cars and trucks. Easy to read dual scale gauge. Complete with 24" (600mm) of oil proof hose with 1/8"NPT.
- Also includes 1/4" NPT and 3/8" NPT adaptors.
- Dual gauge readings: 0 to 300psi (0 to 21bar)
- Gauge diameter: 2.5"



KA-7687K Oil Pressure Check Kit

For testing engine oil pressure at the oil filter on most cars and light trucks. Adapters are included for both domestic and imported engines. Gauge range 0-100PSI.



KA-7382 Engine Oil Pressure Tester

- Check engine oil pressure in both cars and trucks.
- Easy to read dual scale gauge.
- Complete with 24" (600mm) of oil proof hose with 1/8"NPT.
- Also includes 1/4"NPT and 3/8"NPT adaptors.
- Features handy built-in gauge hook.
- Packed in vinyl pouch.
- Dual gauge readings:
0 to 400psi (0 to 28bar)
Gauge diameter: 2.5"



KA-7548 Transmission & Engine Oil Pressure Tester

- Designed to check engine oil pressure in automatic transmissions and engines in both cars and trucks.
- With two easy to read dual scale gauges. Both of two gauges with quick set-up. Complete with 6ft(1.8m) of oil proof hose, nine adaptor fittings, and instructions.
- Packed in Sturdy PVC case.
- Dual gauge readings:
A: 0 to 400psi (0 to 28bar)
B: 0 to 100psi (0 to 7bar)
Gauge diameter: 2.5"

KA-6722KN Heavy-Duty Oil Pressure Tester Kit

- Helps to diagnose work oil pumps and engines faulty oil pressure switches and warning indicators easy to use.
- Accurately tests oil pump pressure, switch & warning indicators.
- Large clear dual scaled gauge 0 - 10 bar.
- Quick coupling adapters with shut-off valve, for speed & security.
- Permanently oil primed, long, flexible hose
- APPLICATIONS: ALFA, MITSUBISHI, AUDI, NISSAN, BMW, OPEL, CTTROEN, PEUGEOT, DAIHATSU, RENAULT, FIAT, ROVER, FORD, SAAB, HONDA, SKODA, HYUNDAI, SUBARU, ISUZU, SUZUKI, JAGUAR, TOYOTA, LADA, VAUXHALL, LANCIA, VW, MAZDA, VOLVO, MERCEDES-BENZ, ZASTAVA



Gauge Assembly:

	Hose overall length	Gauge Diameter	Scale
A	1300mm	83mm	0-10 bar (0 ~ 150psi)
	Adapters	Adapters Thread	
B		1/8x28PT	
C		1/8x27NPT	
D		1/4x18NPT	
E		3/8x20UNF	
F		1/2x20UNF	
G		M10x1.0	
H		M12x1.5	
I		M14x1.5	
J		M16x1.5	
K		M18x1.5	
L		90° ELBOW	
M		SERVICE KIT	

KA-6722KN-A Oil Pressure Tester Kit

- Helps to diagnose work oil pumps and engines faulty oil pressure switches and warning indicators
- Easy to use.
- Accurately tests oil pump pressure, switch & warning indicators.
- Large clear dual scaled gauge 0 - 10 bar.
- Quick coupling adapters with shut-off valve, for speed & security.

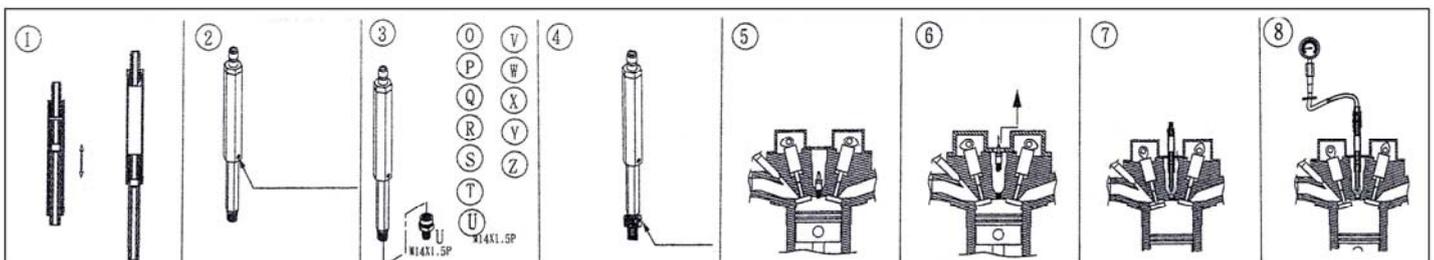


Gauge Assembly:

	Hose overall length	Gauge Diameter	Scale
A	1300mm	83mm	0-10 bar (0 ~ 150psi)
	Adapters	Adapters Thread	
B		1/8x28PT	
C		1/8x27NPT	
D		1/4x18NPT	
E		3/8x20UNF	
F		1/2x20UNF	
G		M10x1.0	
H		M12x1.5	
I		M14x1.5	
J		M16x1.5	
K		M18x1.5	
L		90° ELBOW	
M		SERVICE KIT	

Preparation before Testing:

1. Adjust the Cylinder Pressure Testing Rod (M or N) to Required Length
2. Secure the length with Screw A.
3. Select the Suitable Adapter (O ~ Z)
4. Insert the Suitable Adapter into the Threaded End, and Tighten the Screw B.
5. & 6. Remove the Spark Plug from the Engine Chamber
7. Insert the Cylinder Pressure Testing Rod into the Engine Chamber
8. Connect the Cylinder Pressure Testing Rod with Pressure Testing Gauge.





KA-6721KN Heavy-Duty Petrol Engine Compression Tester Kit

- Petrol compression tester for vehicles with m10, m12, m14 and m18 spark plug thread. Complete with extensions, thread chasers and service kit.
- Easy to use.
- Checks condition of valves piston rings. Gaskets & cylinder heads.
- Pressure relief valve enables repeated testing of a cylinder without removing the gauge. DUAL SCALE 83MM DIA GAUGE 0~300PSI & 0-20 BAR.

	Description	Over all Length	Gauge diameter	Scale	Applications
A	Gauge assembly	200mm	83mm	0-20Bar (0-300psi)	Compressor tester general purpose M14 & M18 plug ports
B	Thread chaser	DIA. x L 21Hx64	THREAD M10X1.0	THREAD M12x1.25	
C	Thread chaser	21Hx77	M14x1.25	M18x1.5	
		DIA. x L	INT. THREAD	EXT. THREAD	
D	Adapter	5/8x63.5	M14x1.25	M10x1.0	Extension M10 x 1.0-63.5mm Motorcycles
E	Adapter	5/8x63.5	M14x1.25	M12x1.25	Extension M12 x 1.25-63.5mm Motorcycles
F	Adapter	5/8x63.5	M14x1.25	M14x1.25	<ul style="list-style-type: none"> ■ For use on engines with deep sedated plug ports ■ For difficult access due to obstruction. Two extensions included in this set, F and G, which can be used separately or together
G	Adapter	5/8x70	M14x1.25	M14x1.25	
H	Adapter	19HX69.5	M14x1.25	M18x1.5	Provides easy & Improved access on ford pinto engines as used in sierra & cortina models.
I	Service Kit				



KA-7238K Compression Test Kit

Compression test on vehicles with gasoline engines. Long flex hose and adapters eliminate the need to remove secondary equipment such as power brakes, steering, air conditioning, and manifold components. Side release valve for quick re-testing of cylinder. Set includes gauge and 14mm/18mm solid short adapter, 14mm/18mm long flexible adapter, 14mm long reach adapter, and instruction manual.

- Large 2-1/2" gauge with dual inch/metric readings: 0 to 300 PSI and 0 to 21 kg/cm².
- Boot on gauge provides extra protection from rough handling.
- Small 1-1/2" gauge w/dual inch/metric readings 0-200 PSI and 0 to 14 kg/cm².



KA-7238A Compression Test Kit (Electronic Gauge)

Compression test on vehicles with gasoline engines. Long flex hose and adapters eliminate the need to remove secondary equipment such as power brakes, steering, air conditioning, and manifold components.

Side release valve for quick re-testing of cylinder. Set includes gauge and 14m/18mm solid short adapter, 14mm/18mm long flexible adapter, 14mm long reach adapter, and instruction manual.

- Large 2-1/2" electronic gauge with dual inch/metric readings: 0 to 300 PSI and 0 to 21 kg/cm².
- Boot on gauge provides extra protection from rough handling.
- Small 1-1/2" gauge w/dual inch/metric readings 0-200 PSI and 0 to 14 kg/cm².
- Application: American Motors, Chrysler, Ford, GM, Mitsubishi, Nissan, Peugeot Porsche, Subaru, Suzuki, Toyota, Jeep, Saturn, Saura, Audi, BMW, Daiha, Hoda, Hyundai, Infiniti, Isuzu, Jaguar, Kia, Land rover, Lexus, Mazda, Mercedes.



KA-7380 2-In-1 Compression Gauge Set

- Supplied with interchangeable stems to allow four different tester configurations.
- Quick set-up.
- Supplied in sturdy vinyl storage pouch.
- Dual gauge readings:
 - 0 to 300psi (0 to 21 bar)
 - Gauge diameter: 2.5"

KA-7235K Compression Tester

Checks cylinder compression from 0 to 300 psi (0 to 21 kg/cm²).

Adapters fit 14 and 18mm spark plug holes and a special air-hold valve is included to easily reset gauge. Has a 12" rubber hose.

Instructions:

1. Run engine long enough to bring crankcase oil to normal operating temperature.
2. Stop engine and remove all spark plugs and their gaskets.
3. Block choke and throttle valve in "open" position.
4. On standard ignition, remove high tension cable from distributor cap and ground it. On HEI, remove three terminal connectors and battery connector.
5. Select the correct size threaded adapter.
6. Screw adapter into the spark plug hole.
7. Crank the engine four compressions to obtain maximum reading. Make a note of the pressure in each cylinder.
8. To remove the gauge from spark plug hole, depress the valve below the dial, releasing the pressure. If compression readings vary more than 10% between cylinders further tests should be performed. See Manufacturer's Service Manual.

**KA-7373 Compression Tester**

Easy-reading 2-1/2" diameter gauge features color-coded quadruple calibrations 0-300 psi, 21kg/cm, 21bar & 2100kpa.

13" durable rubber hose with 14mm/18mm adapter.

6" heavy-duty stem with universal rubber cone adapter fits all plug holes.

Convenient pressure-holding side release valve.

Provides an accurate reading on high performance engines.

**KA-7373A Compression Tester**

Checks cylinder compression from 0 to 300 PSI (0 to 21kg / cm²).

Fit 10mm spark plug threads

Equipped with air-hold valve and gauge reset button

11" flexible rubber hose

**KA-7373B Compression Tester**

Checks cylinder compression from 0 to 300 PSI (0 to 21kg / cm²).

Fit 10 and 12 mm spark plug threads

Equipped with air-hold valve and gauge reset button

11" flexible rubber hose

**KA-7373C Compression Tester**

Checks cylinder compression from 0 to 300 PSI (0 to 21kg / cm²).

Fit 14mm spark plug threads

Equipped with air-hold valve and gauge reset button

11" flexible rubber hose

**KA-7373D Compression Tester**

Checks cylinder compression from 0 to 300 PSI (0 to 21kg / cm²).

Fit 18mm spark plug threads

Equipped with air-hold valve and gauge reset button

11" flexible rubber hose





KA7243 Compression Tester

Quickly and accurately check compression on Gasoline Engines.

- Gauge includes release valve and 400mm (15") of hose. Dial reads from 0-300 PSI and 0-21 BAR.
- A 15" flexible with 14mm & 18mm in one Thread Head, unique swivel end quick coupler allows the operator to use quickly and easily.



KA-6640N Heavy Duty Compression Test Kit

1. Compression gauge with protective rubber 2-1/2"
2. Extension alum. tube
3. Angled extension alum. tube
4. NBR hose fit no.M14 & M18
5. Extension thread head
Inner: M14 Outer: M14
6. H/D release valve



KA-7688K Universal Compression Tester Kit

This versatile kit provides a quick method to obtain cylinder compression pressure on engines with deep, recessed spark plugs and difficult access.

A special air-hold valve is included for easy resetting of the gauge, which is graduated from 10 to 300 psi (0 to 21 kg/cm²). Gauge assembly includes pressure relief valve.



KA-7372 Flexible Shaft Compression Tester

- Tester can be screwed into spark plug hole by hand with just a few turns. Side release valve allows multiple re-testing without removing the tester.
- Has a 14 & 18mm adaptor attached to end of hose, plus separate 14mm long reach adaptor.
- Tests engines with both 5/8" and 13/16" hex spark plugs.
- Supplied in sturdy vinyl storage pouch
- Dual gauge readings:
0 to 300psi (0 to 21bar)
Gauge diameter: 2.5"
(10 & 12mm Adaptors available separately)



KA-7374 Compression Tester

- Easy-reading 2-1/2" diameter gauge features color-coded quadruple calibrations with 0-300 psi, 21 kg/cm, 21 bar & 2100 kpa.
- 13" durable rubber hose with 14mm/18mm adapter.
- 6" heavy-duty stem with universal rubber cone adapter fits all plug holes.
- Convenient pressure-holding side release valve.
- Provides an accurate reading on high performance engines.



KA-7531K Power Steering Tester

- For accurate, reliable power steering analysis.
- Determines if trouble is in front suspension or steering linkage.
- Saves valuable time when rebuilding or replacing parts not actually defective.
- Set contains 2,000PSI gauge with metering valve, connection hose, 13 adapters and power steering pressure specifications.
- All packed in a plastic storage case.



KA-7268K Oil Pressure Test Kit

- Quick and accurate check engine oil pressure, and also available for checking oil pressure in automatic transmission.
- Available for domestic and import vehicles, passenger cars and light trucks, gasoline and diesel cars.

Specification:

- Mechanical gauge (0 ~ 150psi)
- Quick tester clamp (only for connecting with oil filter)
- Tester adapters:

Black (SAE threads)	Silver (Metric threads)
1/2" x 20 UNF	M10 x P1.0
3/8" x 20 UNF	M12 x P1.5
1/4" x 18 NPT	M14 x P1.5
1/8" x 27 UPT	M16 x P1.5
R 1/2" DIN	M18 x P1.5

Instruction:

Test Way 1: Remove the screw and choose a suitable test black / silver adapter provided and connect the gauge and hose for testing oil pressure.

Test Way 2: Quick test for connecting hose, gauge and the quick test clamp with oil filter.



KA-7268 Quick Test Clamp For Oil Pressure (parts for oil pressure test kit (KA-7268K))

Specification:

- Body size: L: 187mm, W: 109mm
- Body material: SCM440
- HRC: 45 ~ 48 degree
- Sharp max length: 19mm
- Sharp material: SUJ2
- HRC: 55 ~ 58 degree

KA-6719KN Diesel Engine Compression Tester Kit

- Comprehensive test kit for both direct and indirect diesel injected cars.
- Simple & easy to use.
- For use on both direct and indirect injection engines.
- Checks engine compression under cranking conditions.
- Small profile, quick coupling adapters for speed & security
- Built-in pressure relief valve enables repeat tests without dismantling.
- Flexible hose (355mm) gives access to restricted plug & injector ports.



	DESCRIPTION	OVERALL LENGTH	GAUGE DIAMETER	SCALE
A	GAUGE ASSEMBLY	560MM	83MM	0-70BAR (0-1000PSI)
B	CENTRE PILLAR	LENGTH	INT. THREAD	EXT. THREAD
		165	M8x1.25	1/2x20UNF
C	SPACER SET	LENGTH	INT. DIAMETER	EXT. DIAMETER
		38.3	17	20.1
		25.6	17	20.1
		19.1	17	20.1
		12.65	17	20.1
		6.6	17	20.1
		LENGTH	INT. THREAD	EXT. DIAMETER
D	END ADAPTER	30	1/2x20UNF	21
E	END ADAPTER	32	1/2x20UNF	24
F	END ADAPTER	41.5	1/2x20UNF	24
G	90° ELBOW			
		LENGTH	WIDTH	HOLE DIA
H	CLAMP PLATE	78	25	17
I	CLAMP PLATE	64	25	17
J	REPLACEMENT SEAL AND WAHSER SET			

KA-6720KN Diesel Engine Compression Tester Set (Cars)

Comprehensive test kit for both direct and indirect diesel injected commercial, marine and industrial engines.

- Simple & easy to use.
- Checks engine compression under cranking conditions.
- Small profile, quick coupling adapters for speed & security
- Built-in pressure release enables complete test without dismantling.
- Flexible hose (355mm) gives access to restricted space.

©APPLICATIONS

BMW, HOLDEN, NISSAN, VAUXHALL, CARBODIES, ISUZU, OPEL, VOLKSWAGEN, CITROEN, LAND ROVER, PEUGEOT VOLVO, DACIA, LEYLAND/DAF, RENAULT, DIAHATSU, MAZDA, ROVER, FIAT, MERCEDES-BENZ, SEAT, FORD, MITSUBISHI, TOYOTA



	DESCRIPTION	OVERALL LENGTH	GAUGE DIAMETER	SCALE
A	GAUGE ASSEMBLY	560mm	83mm	0-70 BAR (0-1000PSI)
B	GLOWPLUG ADAPTER	OUTSIDE DIA	LENGTH	THREAD
		14H	74	M10X1.25
C	GLOWPLUG ADAPTER	5/8H	54	M12X1.25
D	GLOWPLUG ADAPTER	19H	72	M14X1.25
E	DUMMY INJECTOR	Ø21	114	N/A
F	DUMMY INJECTOR	27H	65.5	M24X2.0
G	STANDYNE DUMMY INJECTOR	Ø19	112	N/A
H	GLOWPLUG ADAPTER	12H	114	M10X1.25
I	GLOWPLUG ADAPTER	12H	119	M10X1.0
J	DUMMY INJECTOR	21H	76	M20X1.5
K	90° ELBOW			
L	REPLACEMENT SEAL AND WAHSER SET			
		LENGTH	WIDTH	HOLE DIA.
M	CLAMP PLATE	64	25	17

KA-7191 Diesel Engine Compression Tester Set

- Measures cylinder pressure on diesel equipped cars and trucks.
- Supplied with one gauge and all necessary adapters.
- Gauge includes release valve and 368mm (14.5") of hose, dial reads from 0 - 1,000 psi and 0 - 70 bar.
- Unique swivel end quick coupler allows the operator to connect the adapters quickly and easily.





KA-7191A Heavy Duty Global Diesel Compression Test Set

Contains compression tester and an assortment of adapters to test a wide variety of vehicles, trucks, heavy-duty equipment deluxe gauge with rubber boot.

- ALLIS CHALMERS, BEDFORD, J.I CASE, JOGN DEERE, FLAT ALLIS, FORD TRACTOR, AUD, BENZ, VW, VOLVO, CUMMINS, NAVISTAR, DETROIT DIESEL, CATERPILLAR.



KA-7191B Diesel Compression Tester

2-1/2" dial, glycering filled gauge with glass lens in stainless steel housing. 4,500 PSI rated nylon jacketed pressure hose assembly. Dual scale -0-1,000 PSI; Metric Scale -0-70 BAR. 13 Piece adapter set (Deere & BMW adapters included)

- AUDI, VOVO, BENZ, PEUGEOT, BMW, CUMMINS, FIAT ALLIS, TOYOTA, ONAN, WAUKESHA, FORD, GM, NAVISTAR...etc

KA-2402 Diesel Engine Compression Tester Set

(FOR CUMMINS ENGINES)



ITEM NO.	ENGINE	TESTING PORT	THREAD
0201	2.9L, 3.9L, 5.9L	FUEL INJECTOR	24.0mm - 1.5
0202	6 BT, 4.02"bore, 5.9 liter	FUEL INJECTOR	24.0mm - 2.0
0203	V-185, V-210, V-225 V-555, VT-255, VT-555	FUEL INJECTOR	
0204	These 5.5" bore engines: NH(855 cubic inches), V-6, V-8, V-12 & 903 V-8 Cylindrical PTB	FUEL INJECTOR	
0205	GAUGE INCLUDES RELEASE VALVE AND 368mm(14.5") OF HOSE, DIAL READS FROM 0-1,000 PSI AND 0-70 BAR.		

KA-2402A Diesel Compression Tester With Adapters



Easy-to-use compression tester is designed specifically for medium-duty engines equipped with glow plugs. Dual reading gauge measures compression to 1000 PSI and 7000 kPa. Gauge has a push-button release valve and quick disconnect fittings on the hose end. Tester comes with all the necessary glow plug and nozzle adapters in a handy storage case. Tester service these engines:

- Cummins B and C
- Navistar DT466/DT360
- Ford/Navistar 6.9 & 7.3L
- GM 6.2L and 6.5L
- Hino diesel and Mitsubishi Fuso truck engines



KA-2402B Automotive Diesel Compression Test Set

- Tester with handy deflator for releasing air & retesting.
- A 16-1/2" wire reinforced hydraulic hose with a quick coupler on a swivel for ease of connection.
- A 2-1/2" gauge. Records pressures from 0-1000 PSI and 0-70 bar.
- Adapters for All GM, Isuzu, Lincoln Mark VII and Continental, Ford/Navistar, Audi, Mercedes, Peugeot, Toyota, VW, Volvo-Bacharach conversion adapter also included.
- In a red metal box with insert; instructions and specifications included.



KA-7234KA Master Cummins Diesel Fuel Injection Test Kit

Includes the fitting gauge needed to check fuel pressure, fuel volume, and fuel restrictions. Contents:

- Special quick-disconnect banjo fitting (M14 x 1.5 male).
- Two fuel injection quick-coupler adapters.
- Quick disconnect banjo fitting (M12 x 1.5 male).
- Gauge assembly.
- Fuel volume test adapter.
- Diesel fuel inlet restriction test adapter.
- Application: 1988-98 Dodge pickups and vans with 5.9L 12-valve, and 1998 1/2-newer 5.9L 24-valve Cummins Diesel engines.

KA-7239K Diesel Compression Tester Set(For Mack Truck Engines)

Set contains one gauge and a complete adapter system for testing cylinder compression through the injector port on most mack truck engines. Gauge includes release valve and 368mm(14.5") of hose, dial reads from 0 - 1,000psi and 0 - 70bar. Unique swivel end quick coupler allows the operator to connect the adapter quickly and easily.



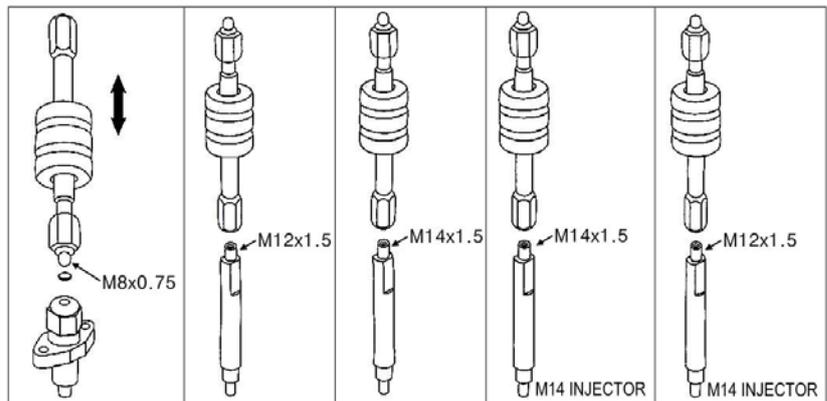
Application	Engine
Allis chalmers	6000, 7000, 10000, 11000
Bedford	200, 220, 300, 330, 466
Case, J.I.	all models not using pencil nozzle
Deere, John	404, 466, 531, 619
Fiat Allis	8035-02-300, 8035-02-301, 8035-02-302, 8045-02, 8045-03
Ford Tractor	all
International Harvester	D/DT 361, D/DT 429, DV 462, DV/DVT 550 DT/DV/DVT 573, 361, 407
Mack Truck	END 405, 457, 475, 510, 519, 605, 672, 673, 674, 711, 864, ENDT 673, 675, 676, 865, 866
Onan	DSL, MDSL
Waukesha	180DLC, 190D, 195D, 197D
White Farm	66, 77, 88, 99, 166, 177, 188, 199, 550, 660, 770, 880, 950, 1550, 1555, 1600, 1650, 1655, 1750, 1755 & 1800



KA-2877N Diesel Injector puller

Assists removal of stubborn bosch and lucas diesel injectors - saves time and money when injectors are difficult to remove.

- With M8 - M12 - M14 adapters
- L:230mm





KA-2899K Flow Meter common Rail Set

The purpose of this instrument is to measure rapidly and effectively the amount of fuel that every injector returns to the deposit tank, so that you will know if any injector is damaged.

Features:

- Direct measurement of return flow of the injector
- Measurement of return flow using external flow meter
- Possibility of simultaneous measurement of up to 6 injectors



KA-2899K1 Flow Meter Common Rail Adaptor Set

This kit is design to measure the amount of the fuel that every injector returns to the deposit tank rapidly and effectively.

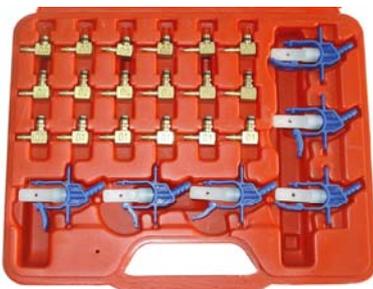
Therefore, you can detect if the injector is damaged.

Special Feature:

- 24 injector adaptors for BOSCH, SIEMENS, DENSO and DELPHI injector
- Direct measurement of return flow of the injector.
- With use of external flow meter to measure return flow.
- Possibility of simultaneous measurement of up to 6 injectors.
- Blow molded case



KA-2899K1-C



KA-2899K2 24pcs Flow Meter Common Rail Set

- Direct measurement of return flow of the injector
- Measurement of return flow using external flow meter
- Possibility of simultaneous measurement of up to 6 injectors
- Box for transportation and storage is included
- 24pcs injector adaptors: apply for BOSH-01, SIEMENS-02, DENSO-03 and DELPHI injector



KA-2899K2-C



**KA-2899K3
Return Fuel Volume Tester for Common Rail Injectors (8V)**

Specification & Application:

1 off measuring unit with 8 off 1000mm rubber hoses.

1set (8 unit) C1 adapters for BOSCH injectors

1set (8 unit) C2 adapters for SIEMENS injectors

1set (8 unit) C3 adapters for DENSO injectors

1set (8 unit) C4 adapters for DEPHI injectors

Packing: Blow Case 10sets/1.2'

“ QUICK REPLACEMENT TYPE “

The purpose of this instrument is to measure rapidly and effectively the amount of fuel that every injector returns to the deposit tank, so that you will know if any injector is damaged.



KA-2899KQC

36pcs For Flow Meter Common Rail (Quick Replacement)

Can used with old type of KA-2899K, KA-2899K1

- Direct measurement of return flow of the injector
- Measurement of return flow using external flow meter
- Possibility of simultaneous measurement of up to 6 injectors
- Box for transportation and storage is included
- Set included 24pc injector adaptors : apply for BOSH-01, SIEMENS-02 , DENSO-03 and DELPHI injector



KA-2898KQC Flow Meter common Rail Set (Quick Replacement)

Features:

- Direct measurement of return flow of the injector
 - Measurement of return flow using external flow meter
 - Possibility of simultaneous measurement of up to 6 injectors
- Box for transportation and storage is included



KA-2898KQC1

Flow Meter Common Rail Adaptor Set (Quick Replacement)

Features:

- Direct measurement of return flow of the injector
- Measurement of return flow using external flow meter
- Possibility of simultaneous measurement of up to 6 injectors
- Box for transportation and storage is included
- Set included 24pc injector adaptors : apply for BOSH . SIEMENS . DENSO and DELPHI injector



KA-2898KQC2

24pcs For Flow Meter Common Rail Set (Quick Replacement)

(Quick Replace Something)

- Direct measurement of return flow of the injector
- Measurement of return flow using external flow meter
- Possibility of simultaneous measurement of up to 6 injectors
- Box for transportation and storage is included
- Set included 24pc injector adaptors : apply for BOSH-01, DENSO-03 and DELPHI injector



KA-7191C Diesel Engine Cylinder Leakage Test Kits

KA-7191C covers most popular cars and vans. KA-7191C has additional glow plug adaptors for more coverage and KA-7191C also includes the adaptor set for clamp-type injectors to cover more car, van, truck, bus, agricultural and marine applications.

Glow plug adaptor application:
 Alfa, BMW, Chrysler, Daewoo, Ford, Hyundai, Isuzu, Land Rover, LDV, Mazda, Mercedes Benz, Mitsubishi, Nissan, Opel, PSA, Renault, Saab, Suzuki, Toyota, VAG, Vauxhall, Volvo Diesel Engine.
 Injectors: M20, M22, M24 & Ford Stanadyne injector plus clamp-on injector.



KA-7191D Diesel Engine Compression Tool Kit

KA-7191D includes the additional Clamp-on Injector Adaptor Set, the large 2-1/2", 70 bar (1000psi) gauge with rubber bumper, straight and right angled connect fittings, wide range of glow plug and injector adaptors which enables KA-7191D to cover the majority of car, van, truck, bus, agricultural and marine diesel engines.

Glow plug adaptor application:
 Alfa, BMW, Chrysler, Daewoo, Ford, Hyundai, Isuzu, land Rover, LDV, Mazda, Mercedes Benz, Mitsubishi, Nissan, Opel, PSA, Renault, Saab, Suzuki, Toyota, BAG, Vauxhall, Volvo Diesel Engine.
 Injector: M20, M22, M24 & Ford Stanadyne injector plus clamp-on injector.



KA-7018 Heavy-Duty Diesel Engine Nozzle Testing & Cleaning Set

FOR ALL DIESEL ENGINE CARS & TRUCKS

For Testing injection nozzle opening pressure, leakage spray pattern, Atomization & Chatter Characteristic & Cleaner.

Capacity: SAFE WORKING PRESSURE

- Max.: 9000 PSI (640 KG/CM²)
- Adapters: M-12 x P1.5, M-14 x P1.5, M-16 x P1.5
- Weight: 8 kg
- Pressure Gauge: 70mm, Pump: 11mm, Stroke: 20mm
- Discharge Amount: 2.0cc
- Simple & Easy to operating by hand
- Follow New International Standard
- Clean the Nozzle with **3M** Cleaning Solution for Diesel Nozzle.
 (Please fill the Cleaning Solution in the white pot)

WARNING

1. Before operating, please fill the pump with approx. 6cc diesel fuel to avoid idling.
2. To avoid injury by high pressure spraying while operating, do not stand in front of the nozzle, do not place hands in front of the nozzle, do not expose any body parts in front of the nozzle, please do not operate when any person is standing in front of the nozzle.
3. Please wear safety goggle or slippery-proof footwear.
4. Please do not operate near fire.

Pressure unit conversion table

	psi	bar	kg/cm ²
1PSI	1.0	0.069	0.07
1BAR	14.5	1.0	1.02
1kg/cm ²	14.2	0.98	1.0

1bar=100kPa



KA-7018A Diesel Engine Nozzle Testing & Cleaning Set

- The liquid tank is provided with a filter.
- Supplied with M14xM14 and M14xM12 pipes.
- Weight: 2 kg
- 3.5" dial gauge reading 0-600 bar also reading 0-8700 lbs/sq.Inch.

WARNING

1. Keep away from any heat places
2. We recommend using special fluids to operate this device properly, such as Shell oil S.9365. or 1P Fanum Fluid Cd.

KA-7230K Universal Radiator Pressure Tester Kit**(For cooling system testers)**

Availability range for the testing head:

NO 0: Needle type thermometer.

NO 1: Manual pumping set.

NO 2: TRUCK, GM (CADILLAC)

NO 3: BENZ, FORD, TRUCK, JAPANESE 123 SERIES, GM (BUICK), JEEP

NO 4: PEUGEOT, JAPANESE 124 SERIES (MITSUBISHI, NISSAN, MAZDA, TOYOTA, SUBARU, INFINITI, GEO, SUZUKI, ISUZU, LEXUS)

NO 5: JAPANESE 125 SERIES (HONDA, TOYOTA, SUZUKI, MITSUBISHI)

NO 6: OPEL, VW, FORD, BMW245, SAAB, JAGUAR

NO 7: VOLVO, SAAB, AUDI, CITRON, RENAULT, FIAT, PEUGIOT, ALFA, JEEP

NO 8: NEW VW

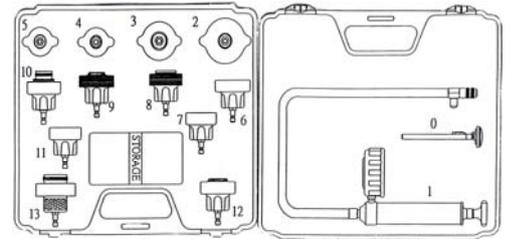
NO 9: VW T4, NEW AUDI A4, A5, A6, BMW 345

NO 10: BMW

NO 11: AUDI, VW

NO 12: FORD, INTERNATIONAL, GM, ROVER

NO 13: BENZ

**KA-7230G Cooling System & Radiator Cap Pressure Tester****Extra Device for vehicles which not covered in above 14 adapters:**

A. The extra device is a bonus device to overcome a situation in case those adapters we prepared are out of dimensions to fit a vehicle with rare design in cooling system. In this case, the useful device will provide you good quality service to you customer.

Caution: Do not apply this device as your routine way to test cooling system. Always wait until the coolant has drop to room temperature to avoid possible steam burnt.

Composition: "T" shape brass joint – both ends are designed to fit 3/8" or 5/16" hose. One piece of 5/16" hose one piece of 3/8" hose. Two pieces of metal clamp.

B. Disconnect the hose with radiator and main cooling system.

C. Select either 5.16" or 3/8" hose which the system applied; and then connect with "t" brass joint with proper size hose with clamp.

D. Connect T-joint with main cooling system with original hose at the other end with clamp.

E. To ensure the security of the loop, metal clamps should be used always. Apply the pump head to connect T-joint.

F. Operate the pump to input air pressure to desired pressure level (10 PSI to 20 PSI recommended). The indicator hand will tell you the fact of the cooling system being tested.

Key Specifications/Special Features:

- With bonus extra device for vehicle not covered in following 14 adapters

- Adapter No. 1: GM 4 cylinder (Buick, Chevrolet, Oldsmobile, Pontiac, Cadillac)

- Adapter No. 2: Truck

- Adapter No. 3: Mercedes-Benz, Ford, Chrysler, GM, Jeep, Truck, Peugeot

- Adapter No. 4: Acura, Dodge, Eagle, Geo, Honda, Isuzu, Lexus, Mazda, Mitsubishi Suzuki

- Adapter No. 5: Toyota, Infiniti, Nissan, GM (Nova, Spectrum, Sprint), Peugeot, Ford, Chrysler

- Adapter No. 6: Buick, Chevrolet, Ford, Lincoln, GM, OPEL, VW, SAAB, Benz (ML-Class), Jaguar, Rover

- Adapter No. 7: Jeep, Renault, SAAB, VOLVO, AUDI, CITRON, FIAT, Peugeot, Alfa, Sterling, VW

- Adapter No. 8: VW

- Adapter No. 9: AUDI (A4,A6,A8), VW (Passat 1997-2002, GOLF, JETTA)

- Adapter No. 10: BMW

- Adapter No. 11: VW, AUDI

- Adapter No. 12: FORD, GM International, ROVER, OPEL, Jaguar, BMW 245 (BMW up to 1987)

- Adapter No. 13: Mercedes-Benz Sedans with threaded neck

- Adapter No. 14: SAAB, OPEL

- 2.3 cap adapter and 4.5 cap adapter: testing pressure cap

- Cooling system pump with pressure gauge

- T shape joint: 5/16 and 3/8 inches

- Oil hose: 5/16 and 3/8 inch, hose clamp x 2

- For all cars

- Patented



KA-7230KV
25pcs Radiator Pressure Tester & Vacuum-Type Cooling System Kit



KA-7230KVN
27pcs Radiator Pressure Tester & Vacuum-Type Cooling System Kit



1. Contents:

1.1 Specification- Radiator Pressure Tester:

No.	Radiator Cap Application	KA-7230KV	KA-7230KVN
0	Thermometer	•	•
1	Pressure Testing Pump with Gauge	•	•
2A	Connector R123/R124(Black color)	•	•
2B	Connector R123/R125(Blue color)	•	•
3	Mercedes Benz(w123, w126, w124, w201) GM(Buick) Jeep	•	•
5	Honda, Toyota, Suzuki, Mitsubishi, Chrysler, Acura, Lexus	•	•
6	Mercedes Benz (ML-class, W163, W164) GM(achiva, skylark, grand am-1992-2002)	•	•
7	Volvo, Saab, Sterling, Citroen, Renault, Fiat, Alfa, Jeep, Mini	•	•
8	VW(Vento, T4, Passa-1996, Golf, Beetle, Sharan)	•	•
9	Audi(A4, A5, A6), BMW 345, VW(Passa-1997-2002), Porsche (Cayenne)	•	•
10	BMW (E46, E36, E34, E39, E38, E32, E90)	•	•
11	Audi, VW	•	•
12	Ford Mondeo, International, Land Rover, Opel, Ssangyong motor	•	•
13	Mercedes Benz(C-class, E-class, S-class, W140, W220, W124, W210, W211, W215, W216, W221, R230)	•	•
14	Ford Mondeo, Focus, C-MAX03	•	•
15	Mazda (M3)	•	•
16	Mercedes A-class (W168)	•	•
17	BMW E60, E63, E64, E65	•	•
18	VW Sharan 1.8T2.8	•	•
19	Toyota-Rav4, Previa	•	•
20	SAAB		•
21	Lincoln, Mercedes, Mercury, Oldsmobile, Pontiac, Saturn, Buick, Cadillac, Chevrolet, GMC, Hummer, International, Jaguar, Land Rover		•

1.2 Specification- Vacuum Purge & Refill Tool

KA-7230V Vacuum-type Cooling System Filler Kit



part	Advantage
Gauge	Could turn almost 180°
Radiator test adaptor	Two application provides more accurate fitting (1) universal cone radiator cap (2) specific radiator cap
on/off button	User select if the air goes

2. Instruction of radiator pressure tester

2.1 check leakage in radiator system with radiator caps (material-Nylon 66)

Step 1: Remove the original radiator cap.

Step 2: Choose an available radiator cap from the test kit and install it on radiator opening.

Step 3: Work the hand pump till the pressure up to 10~15 psi. (see fig. 1 & 2)

Step 4: Check the gauge reading, if the reading drops automatically, and it means that there is leakage might occur in radiator. Please inspect the radiator system and repair it if necessary.

2.2 Check leakage on original radiator cap

Step 1: Choose the #2A or #2B with available steel radiator.

Step 2: Work the hand pump for few times, and then check the gauge reading for testing leakage. (see fig. 3)

Step 3: Follow the pressure standard shows on original radiator cap.



3. Instruction of vacuum purge & refill tool

3.1 Purge the air in radiator

Step 1: Please empty water from the radiator as clear as possible.

Step 2: Raise the vehicle bonnet and hand the hook in available position.

Step 3: Connect the universal radiator rubber adaptor provided or suitable radiator cap on radiator. (see fig. 4 & 5)

Step 4: Ensure the switch No.3 is ON, No.7 is OFF. (see fig. 6)

Step 5: Connect air line. Press button "ON" to allow the air goes (see fig. 7). Turn switch No.3 "OFF" when the pressure reaches 20-25 inHG (50-60cmHG) (see fig. 8). Then press button "OFF".



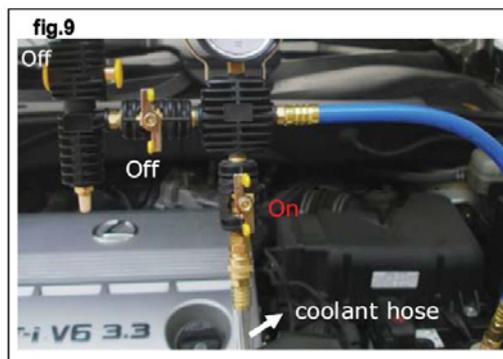
3.2 Refill the Coolant

Step 1: Connect the coolant hose.

Step 2: It is necessary to ensure the No.3 is "OFF" before refilling coolant, then ensure coolant hose is filled with coolant.

Step 3: Turn No.7 "ON" to allow the coolant sucked into radiator. (see fig. 9)

Step 4: The work is done when the needle points will be back to "zero."



Note: Please check if the radiator is fully filled with coolant or not. If not, please fill the coolant by yourself until the radiator is full of coolant.



KA-7230N Universal Radiator Pressure Tester Kit

Operating Instruction

1. Remove the lid of radiator. If the radiator is in high temperature, wait till it cool down or cover with wet towel until reach normal temperature.
2. Select the correct Test Adapter, then screw on the radiator.
3. Attach the correct Test Adapter, then screw on the radiator.
4. Press the Hand Pump to inflate the pressure up to 15~20psi.

Caution : Do not exceed the Max. Pressure of the Gauge.

5. Check the Pressure Gauge. If the pointer is down, you must inspect the lines of radiator, then repair or replace the damage parts.
6. After servicing, press the release button to release the pressure of radiator until the pressure gauge point to zero
- 7.0 Before storing :
- 7-1 Attach the Test Adapter to quick coupler of Hand Pressure Pump, then press the Hand Pressure Pump few times to push remnant water out the Test Adapter.
- 7-2 Drop pneumatic oil into the air hole of the Hand Pump end to lubricate the piston of Hand Pump
8. Use this tool with care and clean thoroughly.

Description/Specification

0 : Temperature

1 : Pressure Testing Pump With Gauge

2A: Connector R123/R124 (Black color)

2B: Connector R123/R125 (Blue color)

3 : Benz \ GM(Buick) \ Jeep

4 : Peugeot \ Subaru, Chrysler, Acura, GM(Nova, Spectrum, Sprint), Mitsubishi, Nissan, Mazda, Toyota, Infiniti, GEO, Suzuki, Isuzu, Ford

5 : Honda \ Toyota \ Suzuki \ Mitsubishi \ Chrysler \ Acura

6 : Benz(ML-class) \ GM(achiva \ skylark \ grand am-1992~2002)

7 : Volvo \ Saab \ Sterling \ Citroen \ Renault \ Fiat \ Alfa \ Jeep

8 : VW(Vento \ T4 \ Passa-1996 \ Golf \ Beetle \ Sharan)

9 : Audi(A4 \ A5 \ A6) \ BMW345 \ VW (Passa-1997~2002) \ Porsche(Cayenne)

10 : BMW

11 : Audi \ VW

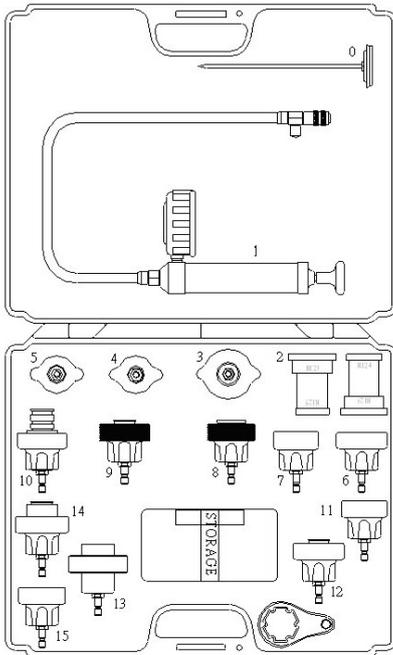
12 : Ford \ International \ Land Rover \ Opel \ Jaguar \ Benz

13 : Benz(C-class \ E-class \ S-class)

14 : Ford

15 : Mazda(M3)

H : Hand Pump



KA-2878K Cooling System Vacuum Purge & Refill Kit (for all cars)

1. Please empty water of radiator. Choose a suitable rubber bush, and put it between cooling system adapter and radiator tightly. (See Figure 1)
2. Connect cooling system adapter to vacuum pump, and connect shop air to air connector. Please turn on the switch. (See Figure 2)
3. Allow air pressure to reach a vacuum level of approximately between 20~25 inches of mercury. Please turn off the switch, and take off the vacuum pump. (See Figure 3)
4. Connect coolant hose to cooling system adapter and then turn on the switch. (The coolant hose should have filled with coolant, and put in the box which filled with coolant) (See Figure 4)
5. The coolant will flow to the radiator via coolant hose.

The Air Usually Enter the Radiator when the Mechanics Refill the Coolant In and Causes Damages to the Car Engines.

The new KA-2878K Cooling System Vacuum Purge & Refill Kit can prevent this problem.

- Enable total Vacuum of the Radiator.
- Prevent the Air Entering the Radiator.

FIGURE 1.

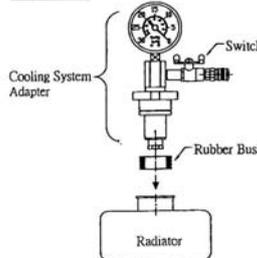


FIGURE 2.

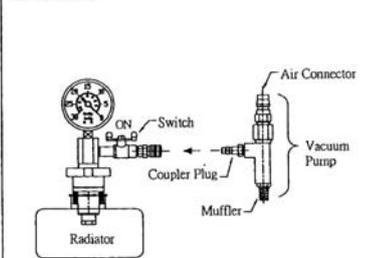


FIGURE 3.

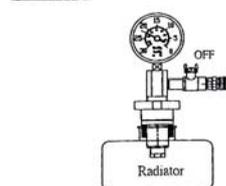
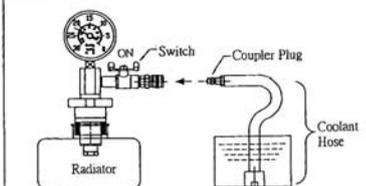


FIGURE 4.





KA-7230E
Cooling System & Radiator Cap Pressure Tester
(European Type Quick Coupling)

- This kit suitable for Mercedes-Benz, BMW, VW, Audi
- The cooling system tester's quick coupling fit the European type nipple for quick coupling
- Can be sold separately



KA-7230H Cooling System & radiator cap pressure tester

Key Specifications/Special Features:

- Cap No. 1: GM 4 cylinder (Buick, Chevrolet, Oldsmobile, Pontiac, Cadillac)
- Cap No. 2: trucks
- Cap No. 3: Mercedes-Benz, Ford, Chrysler, GM, Jeep, Truck, Peugeot
- Cap No. 4: Acura, Dodge, Eagle, Geo, Honda, Isuzu, Lexus, Mazda, Mitsubishi Suzuki, Toyota, Infiniti, Nissan, GM (Nova, Spectrum, Sprint), Peugeot, Ford, Chrysler
- Cap No. 5: Toyota, Honda, Mitsubishi, Suzuki, Lexus, Chrysler, Acura, Dodge, Geo
- 2.3 cap adapter (testing pressure cap)
- 4.5 cap adapter (testing pressure cap)
- Cooling system pump (with pressure gauge)



KA-7230J

Cooling System & Radiator Cap Pressure Tester For "Japanese Cars"

Key Specifications/Special Features:

- #0 Temperature Thermometer
- #1 Pressure testing pump with gauge
- #2-A Switch connector of radiator lid
- #2-B Switch connector of radiator lid
- #3 Adapter - Benz, GM (Buick), Jeep
- #4 Adapter - Peugeot, Subaru, Chrysler, Acura, GM(Nova, Spectrum, Sprint) Mitsubishi, Nissan, Mazda, Toyota, Infiniti, Geo, Suzuki, Isuzu, Ford
- #5 Adapter - Honda, Toyota, Suzuki, Mitsubishi, Chrysler, Acura



KA-7230A Universal Radiator Pressure Tester Kit

This tester kit is used for checking the radiator to see if any water leaked because of the body or the connector not fitted properly or any broken. It is tested through pressure increase by using an adapter for closing the master or second inlet of the radiator then pushing the manual pump by hand.

Contents:

- No.0: Needle Thermometer
- No.1: Manual pump with quick joint & release valve
- No.2: Universal adapter with 3 rubber rings (used for cars not listed on Nos. 3-5) (See Fig.1, 2, 3)
- No.3: Japanese R123 adapter- suitable for Benz, GM (Buick) & Jeep
- No.4: Japanese R134 adapter- suitable for Peugeot, Subaru, Chrysler, Acura, GM(Nova, Spectrum & Sprint), Mitsubishi, Nissan, Mazda, Toyota, Infiniti, Geo, Suzuki, Isuzu & Ford
- No.5: Japanese R125 adapter- suitable for Honda, Toyota, Suzuki, Mitsubishi, Chrysler & Acura

Operation:

1. According to the type of car, choose a suitable adapter and screw it in the inlet of radiator then have the manual pump pressure increased to 15-20PSI and stay the level 5-10 minutes for checking. If the pressure in the meter lower automatically, then check the body of radiator or the connector joint to see if any leaked. If the pressure is kept same, then the radiator is in good condition.

Before using no. 2 universal adapter, be sure to clear up the inlet of the radiator then check its size and chose an appropriate rubber ring to fit then screw securely to the inlet of the radiator. Before loosening the adapter and the manual pump, be sure to leak out the pressure to prevent the water coming out from the radiator.

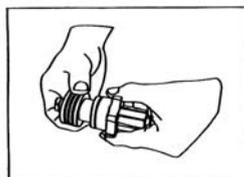
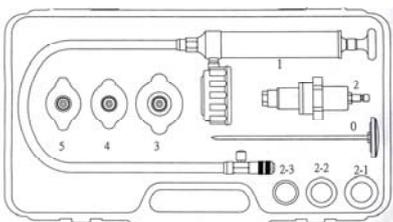


Fig. 1

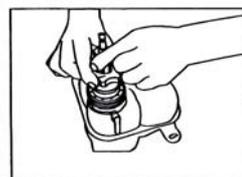


Fig. 2

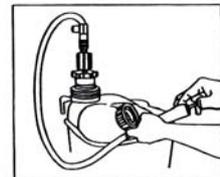


Fig. 3

KA-6542AB Radiator Pressure Tester Kit

- Pressure tester to check leakage of radiator.
- Multi adaptors included which apply for most car models in the market.
- 0-35psi, color-coded gauge, pressure release valve, plastic carrying case.
- Comprehensive operating instruction enclosed.
- Dimension: 410x380x90mm
- Weight: 2.94kgs
- Quantity: 16pcs



KA-6542AC

**Engine Cooling System Leakage Tester**

KA-4277A for U.S.A. system vehicles

KA-4277B for European system vehicles

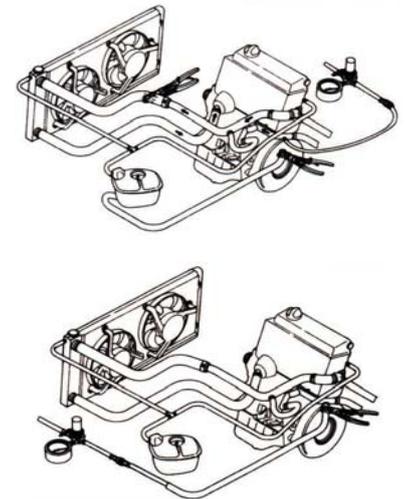
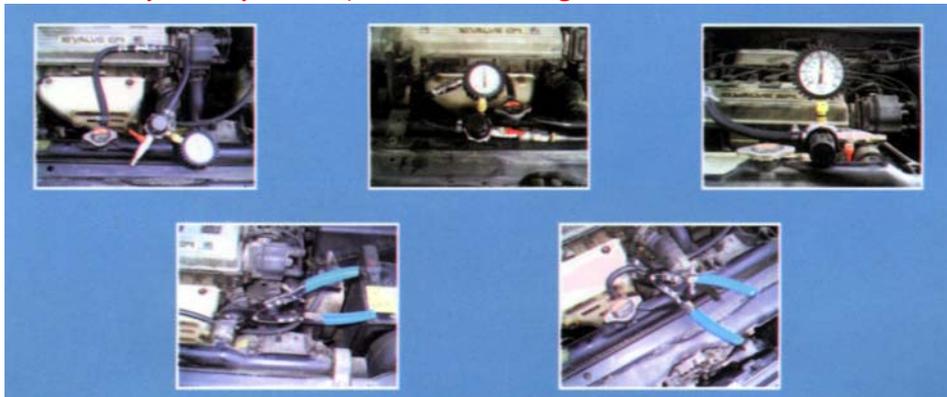
Designed to check cooling system for leaks on common cars. Tester set includes air pressure regulator with gauge, different diameter connecting tube (1/4", 5/16") and hose clamp pliers (8", 10", 12").

Easy to use and quickly find leaks in cooling system.

Test Procedure:

1. Let engine cool down until close to room temperature.
2. Close the manual valve on pressure regulator assembly. Connect the pressure regulator assembly with connecting tube to colling system. Supply compressed air into pressure regulator assembly.
3. Open the manual valve on regulator assembly. Adjust regulator assembly until gauge display approx 1kg.
4. Close the manual valve on pressure regulator assembly again. Unconnect tompsoned air to pressure regulator assembly.
5. Hold the gauge pressure on regulator. If pressures reduce, lokking for where appears cooling water to find leakage position in cooling system. Swivel hose clamp pliers' jaws for parallel clamping cooling system hoses.

WARNING: always wear eye or face protection when using these tools





KA-7200 Carburetor & Synchronizer

For testing fuel pump, carburetor and transmission check auto with 2 ~ 4pcs Carburetors

1. 4pcs 3-1/2" synchronizer gauges with fixed plate
2. Rubber hose 4pcs 8x5x7500mm
3. Extension tube
 - 4pcs 3.9 x 122mm
 - 4pcs 3.9 x 52mm
4. Cone Type Connector
 - 8pcs 8x40mm
 - 4pcs 10x53mm (M6x0.75)
 - 4pcs 10x60mm (M6x1.0)



KA-7201 Vacuum Tester

For testing fuel pump carburetor and transmission check auto with 2 ~ 4pcs CARBURETORS

1. 4pcs 3-1/2" synchronizer gauges with fixed plate
2. Pressure range: 0~76cmHg
3. Rubber hose 4pcs 4PC 8x5x7500mm
4. Extension tube
 - 4pcs 3.9 x 52mm
 - 4pcs 3.9 x 122mm
5. Cone Type Connector
 - 8pcs 8x40mm
 - 4pcs 10x53mm (M6x0.75)
 - 4pcs 10x60mm (M6x1.0)



KA-1237 Carburetor Synchronizer (Vacuum, Mini-Type)

- Four pieces Gauges
- Dial Diameter: 2"
- Pressure Range: 0~76cmHg
- Housing: Painted Steel
- Ring: Painted Steel
- Lens: Arcylic
- Pointer: Flat Red-Painted Aluminum

Accessories:

- Fixed Plate
- Rubber Hose:
 - Ø8x Ø5x950mm(4pieces)
- Extension Tube:
 - M5x0.8x100mm(4pieces)
 - M5x0.8x169mm(4pieces)
- Cone Type Connector:
 - M6x1.0x60mm(4pieces)
 - M6x0.75x53mm(4pieces)
 - Ø6x55mm(1pieces)



KA-1238 Carburetor Synchronizer

- One piece Gauges
- Dial Diameter: 2"
- Pressure Range:
- Vacuum or Compound available
- Housing: Painted Steel
- Ring :Painted Steel
- Lens: Arcylic
- Pointer: Flat Red-Painted Aluminum

Accessories:

- Rubber Hose:
 - Ø8x Ø5x950mm
- Extension Tube:
 - M4x Ø0.7x169mm
 - M4x0.7x100mm
- Cone Type Connector:
 - M6x1.0x60mm
 - M6x0.75x53mm
 - Ø6x55mm



KA-7383K Vacuum Tester

- For engine pressure testing
- Gauge: 0 ~ -76 CMHG (0 ~ -30 INHG)



KA-7202 Vacuum & Fuel Pump Tester

- Large 3-1/2" diameter gauge with color-coded easy-reading scales.
- Extra long heavy-duty rubber hose and 14mm/18mm manifold adapter.
- Checks for worn or defective parts in fuel pumps, vacuum system.



KA-7383 Vacuum & Fuel Pump Pressure Tester

- Enlarged graduations for accurate readings. Checks for leaky valves, timing, fuel pump vacuum and pressure, fuel line leakage etc.
- Gauges are equipped with 4ft(1.2m) of high quality rubber hose with taper vacuum fitting.
- Complete operating instruction manual included.
- Supplied in sturdy vinyl storage pouch.
- Dual gauge readings:
 - 0 to 30inHg (0 to 76cmHg)Vacuum
 - 0 to 15psi(0 to 1kg/cm²) Pressure
- Gauge diameter: 2.5"



KA-4425K Vacuum Pump / Brake Bleeding Kit

A COMPLETE KIT FOR VACUUM TESTING AND ONE-MAN BRAKE BLEEDING

Testing:

1. Diagnosing mechanical engine conditions
2. The fuel system
3. Ignition system service
4. Engine tune-ups
5. Computerized engine control systems
6. Emission control system components
7. Automatic transmissions
8. Brake systems
9. Body and accessories
10. Motorcycle and marine vehicle
11. Ship honing fluids

***** TOTAL 25 FUNCTION *****



KA-3000K



KA-6690 Vacuum Testing Brake Bleeding Kit

A COMPLETE KIT FOR VACUUM TESTING AND ONE-MAN BRAKE BLEEDING

Useful Information:

1. The kingtool vacuum pump
2. The automotive vacuum system
3. Dianosing mechanical engine conditions.
4. The fuel system
5. Ignition system service
6. Engine tune-ups
7. Computerized engine control systems.
8. Emission control system components.
9. Automatic transmissions
10. Brake systems
11. Body and accessories
12. Motorcycle and marine vehicle.
13. Ship honing fluids.

***** TOTAL 25 FUNCTION *****

VACUUM READING: 0 ~ 760mmHg(0 ~ 30 INCH Hg)



KA-4422K Vacuum/Pressure Pump

- **Mechanical engine condition**

1. Vacuum gauge
2. Cylinder leakage
3. Valve stem oil seals
4. Heavy duty diesel piston pin retainer leakage
5. Turbocharger waste gates motorcycle and marine
6. Sealing & Defective gaskets

- **Testing**

Vacuum pump provides many tests including but not limited to the following.

1. Automatic transmission

- * vacuum modulators

2. Body and accessories

- * vacuum reservoirs
- * air conditioning and heating
- * heater cores

3. Brake systems

- * antilock brake system
- * conventional brake system
- * power brake system

4. Computerized engine control systems

- * FORD EED-III and MCU system
- * CHRYSLER electronic fuel control system
- * American motors engine controls

5. Emission control system

- * heated-inlet air system
- * EGR (Exhaust gas recirculation) system

6. Engine tune-up

- * carburetor adjustments and service
- * carburetor chokes
- * propane carburetor service

7. Fuel system problems

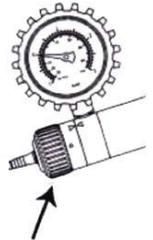
- * fuel tank
- * fuel lines
- * fuel pumps
- * fuel pressure regulator

8. Ignition system services

- * system functions
- * ignition timing
- * power brake system

- Vacuum reading from 0 to -1 bar / 0 to 760 mmHG with 0.05 gauge increments
- Pressure reading from 0 to 4 bar / 0 to 60 PSI with 0.05 gauge increments

CHANGES FROM VACUUM TO PRESSURE INSTANTLY





KA-6323
Mechanics Stethoscope



KA-6324
Mechanics Stethoscope



KA-7034
Mechanics Stethoscope
– Supplied with trumpet.

Features

- Professional mechanic quality. Sensitive instrument.
- Provides a fast and easy way to locate troubles in engines, bearings and other moving parts.
- Plastic earphones shut off outside noises.
- Aluminum alloy probe/needle for finding the exact location of unusual noises.
- Plastic and rubber parts make the instrument shockproof.
- Ideal for pinpointing unusual vibrations or suspected leaks (valves, piston rings, gaskets, etc).



KA-4294K I.C. Engine Mechanic's Stethoscope

Provides a fast and easy way to locate troubles in engines, bearings and other moving parts.



KA-4294K1 Combination 4 Channel Electronic Stethoscope Kit

Engine stethoscope:

- Use to locate & identify engine noise
- Super sensitive microphone pick-up
- Flexible non-conductive shaft
- Cushioned headphones

Component stethoscope

- Detect & isolate noisy components
- Enables road test diagnosis
- 4 channel sensor selector unit
- 4 pick up sensors – 4.8m long cords



KA-4294K2 Combination 6 Channel Electronic Stethoscope Kit

- Use to locate & identify engine noise
- Super sensitive microphone pick-up
- Flexible non-conductive shaft
- Cushioned headphones

Component stethoscope

- Detect & isolate noise components
- Enables road test diagnosis
- 6 channel sensor selector unit
- 6 pick up sensors – 4.8m long cords

Use for: * road test diagnosis * under chassis * under hood * fuel injectors

The chassis EAR is a versatile electronic listening tool, which is designed to allow the user to listen to amplified sounds through a professional set of headphones during a road test.

There are 6 extremely sensitive microphone/clamps that can be attached adjacent to many difficult to diagnose vehicle parts and 1 extension lead.

Instructions

Electronic stethoscope

- Connect headphone jack into stethoscope unit
- Turn unit on with volume control dial & set to mid level
- Put headset on & place probe onto part to be tested.
- Use to detect & diagnose worn pistons, faulty lifter, bearing & gear noise, manifold leaks – also use to locate wind & water leaks in doors & windscreens.

Component stethoscope

- Attach 4 or 6 sensor clamps to suspected source of noise
- Use either Velcro straps or cable ties to secure the clamp wires.
- Plug headphone jack into selector box & turn on with volume control & set to midlevel
- Operate component or test drive vehicle to duplicate the problem noise.
- Adjust volume to desired level & rotate the selector box knob between the 4 or 6channels, until the source of the noise is isolated.
- Use to trace drive-train, under-bonnet & under-dash source of noises.

Stethoscope & 4 or 6 channel selector box require a 9 volt battery – supplied.