



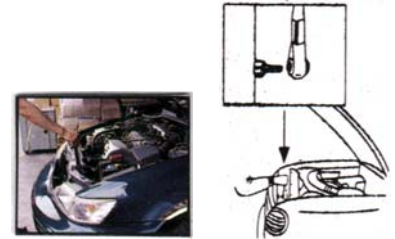
KA-6500 Headlight Adjusting & Brake Spring Hook

This tool made from heat treated alloy steel is especially designed for removing and installing hard-to-reach headlight adjusting springs. OAL 6"



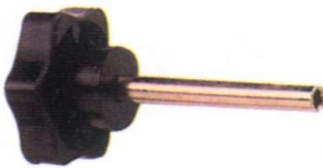
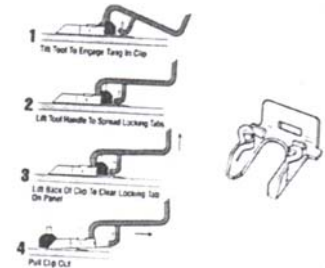
KA-9122A Headlight Adjusting Ratchet For Ford

- Used to adjust aerodynamic headlights with rear mounted adjusters on newer Ford vehicles
- These adjusters are not easily accessible and require this tool for adjusting
- The extra-long handle allows easy access to hard-to-reach spaces
- 4mm hex with a roller clutch for infinite settings.



KA-6824 Ford Headlight Retaining Clip Tool

- Two fingers spread locking tabs to release them
- Tang of tool lifts back of clip to clear locking tab on panel
- Removes clip without damage even in confined spaces



KA-6066 Headlight Adjuster For Ford

Fit 4mm hex headlight adjusting bolts on late model Ford, Mercury and Lincoln cars and pickups with aerodynamic headlights.



KA-3874 Spark Plug Electric Wire Remover

- The tool is designed to separate the electric wire from spark plug
- Applicable: VW VR6, PASSAT, BENZ, V-CLASS

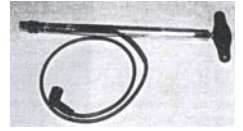


Spark Plug Socket Remover

The tool is designed to separate the electric wire from spark plug.

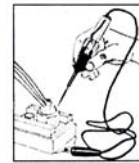
KA-3874A L: 352.2mm

KA-3874B L: 225mm

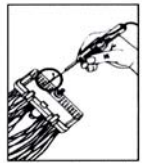


KA-2720 Finger Saver Wire Piercing Guide

An ingenious device that eliminates stabbed fingers. Quickly, easily and safely guides the pick point of any circuit tester into the center of all primary automotive electrical wire. Also holds the circuit tester in position allowing you to work with both hands free. Resists gasoline, oil, thinners, and other shop chemicals.



Tests standard primary electrical systems.



Tests computer controlled electrical systems.



KA-4193 Trailer Light Tester (4pole)

The ideal tester for the workshop and service station.

Permits the testing of connections at tractor unit plug socket (not for checking the flasher indicator lamps on the dashboard)



KA-7244 Tractor Unit Electrical System Tester (European For Cars)

Economical tractor unit tester with plastic housing, for 12V LED's indicate correct polarity and function. Cable length 100cm (39")

Test Functions:

- Flashers right/left
- Brake lights
- Tail lights right/left
- Rear fog lamp



KA-7245 Tractor Unit Electrical System Tester (American For Cars)

Economical tractor unit tester with plastic housing, for 24V LED's indicate correct polarity and function. Cable length 100cm (39")

Test Functions:

- Flashers right/left
- Brake lights
- Tail lights right/left
- Rear fog lamp



KA-2543 Remote Starter Switch

- Heavy duty, push button remote starter allows technicians to bump or crank engines while under the hood.
- Long, 5 ft. leads.
- Heavy duty insulated alligator clips.
- Rugged rubber housing.
- Great for high-use environments.



KA-7016 Remote Starter Switch

Heavy clips with insulated sleeves attach to ground and starter solenoid switch. Thumb activated switch. 6-foot (183cm) heavy insulated wire for long tool life.



KA-7015 Auto Computer Memory Unit

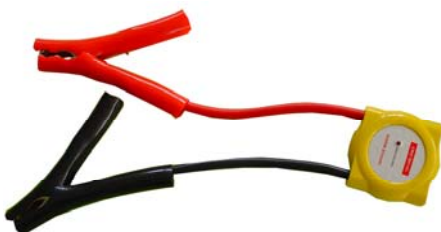
Maintains the memory of car radios, clocks and computer functions when is disconnected. Simply attach a 9-volt battery and plug into cigarette lighter. Will retain settings up to 4 hours. Will not power any lights or other accessories.



KA-2544 Fibre Optic Noid Light Extension Cable

Insert noid light into the cup of extension cable then connect it to the vehicle wiring harness. The extra long fibre optic cable can be secured with suction cup to the windscreen, bonnet etc. to observe the flashing noid light through the lens of the fibre optic cable.

- Length: 6ft (1.8m)



KA-7303 Anti-Zap Service Minder

This unique electronic device provides total protection against transient voltage spikes or surges generated by modern welding units like Argon ARC, MIG, TIG, and plasma cutters. Designed for use on 12-volt systems. Protects: computer and EFI fuel systems, mobile phones and faxes, all modern L.E.D. instrumentation, radio cassette tapes, alarms, C.D players. Connects easily to battery terminals.

1. Connect the red nipper to the cable positive (near the terminal).
2. Connect the black nipper to the cable negative (near the terminal).
3. Light the green LED: clamps correctly connected Battery being tested is in good condition. Proceed.
4. If it's not in good condition the battery. no star a vehicle and change battery.



KA-6725GH IAC Signal Tester

Use testers for checking the electronic control module signal that provides direction to the idle air-control motor on GM vehicles with throttle body or port fuel injection systems.



KA-6724 Deluxe Noid Set

- The most economic way to check electronic fuel injection (EFI) signals
- Fast and easily checks for systems of GM TBI, Bosch PFI Ford TBI, GM PFI, Geo TBI and GM SCPI just disconnect the fuel injector, plug the Noid Lite into injector, Plug the Noid Lite into injector wiring harness then crank the engine.



KA-6724A Deluxe Noid Lite Set

- The most economic way to check electronic fuel injection (EFI) signals
- Fast and easily checks for systems of GM TBI, Bosch PFI Ford TBI, GM PFI, Geo TBI and GM SCPI just disconnect the fuel injector, plug the Noid Lite into injector, Plug the Noid Lite into injector wiring harness then crank the engine.

IAC Signal Test Lights

Use testers for checking the electronic control module signal that provides direction to the idle air-control motor on GM vehicles with throttle body or port fuel injection systems.



KA-6724B Noid Lights/ IAC Test Lights & Ignition

Set includes:

- GM TBI Noid Lite
- Bosch PFI Noid Lite
- Ford Noid TBI Lite
- GM Multec 2 Noid Lite
- GM PFI Noid Lite
- Geo TBI Noid Lite
- GM SCPI Noid Lite
- Bosch 2 Noid Lite
- '82 and newer GM TBI/PFI with square 4 pin connector
- '87 and newer Model 700 TBNI/PFI with flat 4 pin connector



KA-6724BL

10pcs Deluxe Noid Light/ IAC Test Kit Plus One Fibre Optic Noid Light Extension

- Sets includes enght noid lights for testing GM PFI, Ford TBI, Geo TBI, Bosch PFI, GM TBI, GM SCPI, GM MUL TEC 2, Bosch 2.
- One IAC signal test lights for GM TBI and PFI fuel injection system, and one for GM model 1987 or newer GM model 700 TBI and PFI fuel injection system. Plus one fibre optic Noid Light extension

**KA-1282****281pcs Professional Crimper and Stripper Assorted Terminals Tool Kit**

Ins-Ring Terminal#10[AWG12-10]	3 pcs
Ins-Ring Terminal#14[AWG12-10]	3 pcs
Ins-Spade Terminal#10[AWG12-10]	3 pcs
Ins-Spade Terminal#14[AWG12-10]	3 pcs
Ins-Spade Terminal#6[AWG16-14]	10 pcs
Ins-Ring Terminal#8[AWG16-14]	10 pcs
Ins-Spade Terminal#8[AWG16-14]	10 pcs
Ins-Ring Terminal#6[AWG16-14]	10 pcs
Ins-Ring Terminal#6[AWG22-16]	10 pcs
Ins-Spade Terminal#6[AWG22-16]	10 pcs
Ins-Ring Terminal#8[AWG22-16]	10 pcs
Non-Ins Ring Terminal#6[AWG22-16]	5 pcs
Non-Ins Ring Terminal#6[AWG16-14]	5 pcs
Non-Ins Spade Terminal#6[AWG22-16]	5 pcs
Non-Ins Spade Terminal#6[AWG16-14]	5 pcs
Non-Ins Ring Terminal #6[AWG 12-10]	3 pcs
Non-Ins Spade Terminal #6[AWG 12-10]	3 pcs
Ins-Butt Connectors[AWG12-10]	3 pcs
Ins-Male Disconnectors[AWG 12-10]	3 pcs
Ins-Female Disconnectors[AWG 12-10]	3 pcs
Ins-Butt Connectors[AWG 16-14]	5 pcs
Ins-Male Disconnectors[AWG 16-14]	3 pcs
Ins-Female Disconnectors[AWG 16-14]	3 pcs
Ins-Butt Connectors[AWG22-16]	5 pcs
Ins-Male Disconnectors[AWG 22-16]	3 pcs
Ins-Female Disconnectors[AWG 22-16]	3 pcs
Non-Ins Butt Connectors[AWG22-16]	5 pcs
Non-Ins Butt Connectors[AWG16-14]	5 pcs
Non-Ins Butt Connectors[AWG12-10]	3 pcs
Open Barrel Female Terminals	5 pcs
Open Barrel Male Terminals	5 pcs
PVC Cover for Open Barrel Terminals	5 pcs
Cord End Terminal 1.0mm,L:8mm	25 pcs
Cord End Terminal 0.75mm,L:8mm	25 pcs
Cord End Terminal 1.5mm,L:8mm	25 pcs
Cord End Terminal 0.5mm,L:8mm	25 pcs
Cord End Terminal 10.0mm,L:18mm	2 pcs
Cord End Terminal 6.0mm,L:18mm	2 pcs
Cord End Terminal 16.0mm,L:18mm	2 pcs
Jaw for crimping Insulated Terminals	1 set
Jaw for crimping Non-insulated Terminals	1 set
Jaw for crimping Open Barrel Terminals	1 set
Jaw for crimping Cord-End Terminals	1 set
Jaw for core-end terminal	1 set
Quick Interchangeable Heavy-duty Ratchet Crimper	1 pcs
Interchangeable Heavy-Duty Stripper	1 pcs

**KA-1275****5pcs Professional Quick Interchangeable Ratchet Crimping Tool Set**

Jaw for 4P4C / RJ22 Plug	1 set
Jaw for 6P2C,6P4C, / RJ11,6P6C/RJ12 Plugs	1 set
Jaw for 8P8C/RJ45 Plugs	1 set
4.4" Professional Wire Stripper	1 pcs
Quick Interchangeable heavy-duty crimper	1 pcs
or	
4.4" Professional Wire Stripper	1 pcs

**KA-1278****7pcs Professional Quick Interchangeable Ratchet Crimping Tool Set**

Jaw for Insulated Terminal	1 set
Jaw for non-insulated terminal	1 set
Jaw for open barrel terminal	1 set
Jaw for cord-end terminal-small size	1 set
Jaw for BNC connector	1 set
Jaw for cord-end terminal-large size	1 set
Quick Interchangeable heavy-duty crimper	1 pcs

**KA-1276**
1000pcs Quick Interchangeable Ratchet Crimping Tool & Terminals Kit (Ins. & Non-Ins. Terminals)

- 1000pcs jaws and professional crimping tool-changeable
- Insulated Jaw and Non-Insulated Jaw each one pcs
- crimping tool body-one
- 997pcs terminal

**KA-1277**
3pcs Quick Interchangeable Heavy-Duty Ratchet Crimping Bags

- Jaw for Crimping Insulated Terminal- 1 set
- Jaw for Crimping Non-Insulated Terminal- 1 set
- Quick Interchangeable Heavy-Duty Crimper- 1 pcs

KA-1279 11pcs Quick Interchangeable Ratchet Crimping Tool Kit


Jaw for Insulated Terminal	1set
Jaw for non-insulated terminal	1 set
Jaw for open barrel terminal	1 set
Jaw for cord-end terminal	1 set
Jaw for BNC connector	1 set
Jaw for cord-end terminal (For large size)	1 set
Jaw for Open Barrel Terminals (For large size)	1 set
Jaw for 4 Position 4 Contact Connector	1 set
Jaw for 6 Position 6 Contact Connector	1 set
Jaw for 8 Position 8 Contact Connector	1 set
Quick Interchangeable heavy-duty crimper	1 pcs

Material→ AISI-4140

Procedure→ Precision and Wax-lost Casting

Treatment→ Finished with heat treatment (HRC 38° - 45°) and Zinc Phosphate Surface Treatment

Jaw's Instruction

<p>A jaw Insulated Terminals For AWG 22-18/16-14/12-10 or Din 0.5-1.0/1.5-2.5/4-6mm²</p>	<p>B jaw Non-insulated Terminals For AWG 20-18/16-14/12-10/8 Din 1.5/2.5/6/10mm² Jis 1.25/2/5.5/8mm²</p>	<p>C jaw Open Barrel Terminals For AWG 20-18/16-14/12-10 DIN 0.5-1.0/1.5-2.5/4-6mm²</p>	<p>D jaw Insulated Cord-End Terminals For AWG 22/20/18/16/14/12 DIN 0.5/0.75/1.0/1.5/2.5/4.0mm²</p>	<p>E jaw RG Type Coaxial Cable Connector(BNC) Coaxial cable connectors (6.48/5.41/2.50/1.72/8.23mm) (0.255"/0.213"/0.1"/0.68"/0.324") and coaxial cable connectors have to fit for coaxial cable RG type 58.59.62.6</p>
<p>F jaw Insulated Cord-End Terminals (Huge AWG) For AWG 10/8/6 DIN 6/10/16mm²</p>	<p>H Jaw Open Barrel Terminals For AWG 14-22/8-6 JIS 2.5/0.5/8-10mm²</p>	<p>G1 Jaw 4 Position 4 Contact Connector For 4P4C / RJ22 PLUG</p>	<p>G2 Jaw 6 Position 6 Contact Connector For 6P2C, 6P4C/RJ11 6P6C/RJ12 PLUGS</p>	<p>G3 Jaw 8 Position 8 Contact Connector For 8P8C / RJ45 PLUGS</p>



KA-7305 Electric Marking Pencil

This ETCHING PENCIL will operate from either 6 or 12 volts. The recommended hook-up is shown below using the leads supplied with the pencil.



(Recommended Hook-Up)



KA-6806 High Tension Tester

Set of four testers of quick check on H.T. System. If the testers flash, the H.T. supply to the plugs is good. If the tester does not flash, check the H.T. Leads points, distributor, coil, etc. Supplied for 4 cylinder engines, but can be tested in all combinations.



KA-3569 Ignition Extension

Convenient, Simple, Accurate

- Check ignition timing, engine RPM, ignition state
- Allows for inductive couplers to be used on engines that have no HT leads to diagnose engine faults.
- Ideal for coil-pack diagnose a fault without unnecessary component changing.
- Simply plugs in-between the coil-pack and spark plug.
- Length: 600mm



KA-3576

KA-3576 Leakage Current Catcher Without Spark Tester

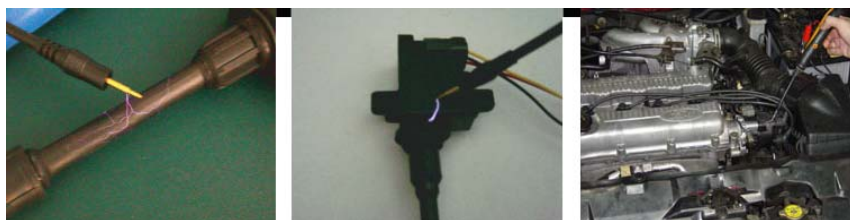
KA-3576A Leakage Current Catcher With Spark Tester

(with KA-5162 x 2sets)

- Find the leakage quickly.
- Apply the ignition leakage tester are very easy. All we need to do is to connect the electric source wires according to their colors. (red wire connect to the positive of the battery, black to the negative), if the LED is flashing, the electric leakage has occurred.



KA-3576A



To operate gasoline engine have to accompany with ignition system, is combined by ignition coil, high tension cable, spark plug, distributor, ignition amplifier, etc. The coil produce the power of high voltage surge, it is the most difficult part to diagnose. Choice the IGNITION EXPERT can help you to judge the defect accurate and rapidly. To solve the ignition problem by the redouble function tools.



KA-5174 Ignition Expert (simply)

Standard coil connectors:

Mitsubishi x 2 / Nissan x 1 / Ford x 1 / Toyota x 1 / Honda x1
(connector type could collocate you want)



KA-5174A Ignition Coil Connectors

Coil connectors type: Benz, Volvo, Suzuki, Toyota, Luxgen, Honda, Nissan, VW/Audi, Ford, Hyundai, GM, BMW, Mitsubishi
(connector type could collocate you want)



KA-5174K Ignition Expert (professional)

Operation:



Step 1:

Connect the ignition coil and spark tester (will ground connected).
Connect the adapter cable with ignition coil



Step 2:

Ensure that the testers speed adjustment knob is turned to the left end (counterclockwise for minimum)



Step 3:

Connect the tester's power supply clips to the battery terminals. Plug the power cable into the tester's power input socket



Step 4:

When the DC 12V power is supplied, the tester's Red LED will light up. The unit will run through a Self-test for about 2 seconds and the Green LED up start the flash



Step 5:

Connect the coil power and signal cable with tester.



Step 6:

Turn the knob to change the ignition speed fast or slow. After test finished turn the knob to the left end (counterclockwise)

- Apply to any Automotive Multi-meter, the extended line of probe for oscilloscope.
- More convenient connection and checking rapidly.
- When checking the electric current, only use the lines to connect the circuit, do not need to cut the electric wires.
- Various wires in this box, it is suitable for the Europe, America and Japan terminal. High common use and convenience.












KA-1608 23pcs Car Testing Line Kit

- CE UL APPROVAL
- Universal
- Packed in Velcro Pouch Bag



KA-1608C 15pcs Car Testing Line Kit

- CE UL APPROVAL
- Universal
- Packed in white box

	Description	KA-1608	KA-1608C
	Alligator Clip Can be used in conjunction with the test probes or banana plug extension cable	2	2
	Wiring Checking Clip Rated Voltage: 300V Rated Current: 5A	1	1
	Connecting Test Leads	4	4
	Testing Probe Allows the multi-meter tester probes to be extended. Can be used with the banana plug extension cable to lengthen the reach of the test probes	2	2
	Resistance Signal Simulator 5KΩ potentiometer. This can determine the condition of the sensor whether it is good or bad before replacing it when diagnosing with a diagnostic scanner	1	---
	Flat Female Terminals-various sizes Can be used as a breakout connection for measuring signals with test equipments	6	---
	SRS (airbag) Plug Used to test the functionality of the airbag or safety seat belt retractor circuitry	1	---
	LED stroboscope This LED stroboscope is very useful for checking the pulsing signals of the controls systems. Its LED light will blink according the signals received	2	2
	Needle Probe This Needle Probe is very useful due to its fine needle contact. It can reach small tight openings and for piecing through the insulation without noticeable damage the outer insulation	4	4

Various male/ female connectors are designing and making for car factory demand. It's a perfect circuit checking tool. You can use it nimble on the adjustment and assistant the technician checking the car problem rapidly and accurately.



KA-3563 92pcs Multi-Purpose Connector



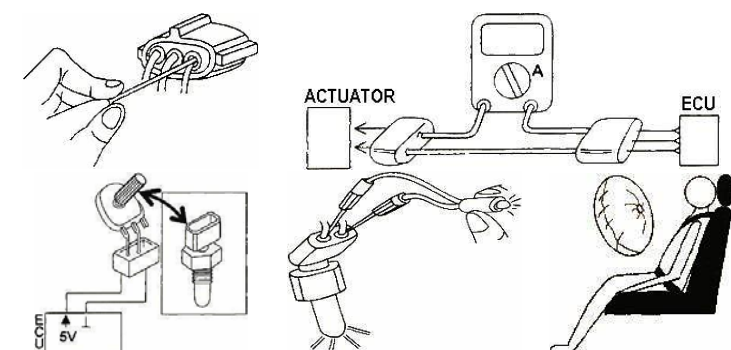
KA-3563A 94pcs Multi-Purpose Connector

Contents	Q'ty	KA-3563	KA-3563A
5KΩ potentiometer (variable resister)	2	●	●
LED stroboscope	2	●	●
SRS Connector	2	●	●
1 to 2 Connector	2	●	●
1 to 1 Male / Female Extension Wire	4	●	●
Alligator clip	2	●	●
Testing Probe	2	●	●
Acicular probe	4	●	●
Wire Checking Clip	2		●
Round terminals	24	●	●
Flat Terminals	48	●	●

*Please see next page
ET-A10-1 for more
function description.*

Application Of Operation:

1. When checking the parts, it could connect the back of terminal directly, would not to damage the circuit, reduce the circuit rust and avoid to adding impedance.
2. Apply to any Automotive Multimeter, the extended line of probe for oscilloscope. More convenient connection and checking rapidly.
3. When checking the electric current, only use the lines to connect the circuit, do not need to cut the electric wires.
4. Variable Resister can simulate the pretend signal of coolant temperature sensor, throttle valve sensor and send the pretend signal to computer. It would avoid risk to change the new parts again.



5. Equip 2 sets LED light. It can supervise hall effect, photoelectric signal, nozzle, electromagnetic valve, electromagnetic valve of transmission shift gear....and control signals.
6. SRS Connector can simulate airbag and routed contracting device of safety belt to avoid accident or miss-judgment.
7. Various wires in this box, it is suitable for the Europe, America and Japan terminal. High common use and convenience.

Parts Function of KA-3563 & KA-3563A:



5KΩ potentiometer (variable resister)

Many parts in vehicle are applied to the variable resister (engine coolant temp. sensor, air charge temp. sensor, oil temp.). You can adjust the resister to meet your demand.



LED stroboscope

2-color and 2-way LED. The LED changes the color when shifting the positive (+) / Negative (-).



SRS Connector

While the SRS airbag or routed contracting device of seat belt is bad or after accident, it needs to set up a new SRS airbag. The SRS connector is used to replace the SRS airbag to connect with the system first. The connector will be burned if the current is over 0.25A.



1 to 2 Connector

1 to 2 Male / Female connectors of banana sockets.



1 to 1 Male / Female Extension Wire

1 to 1 Male / Female connectors of banana sockets.



Alligator clip

Clip the testing part, can be used together with the probe and extended line.



Testing Probe

Probe the testing part, can be used together with the alligator clip and extended line.



Acicular probe

To avoid the damage, please notice the operating angle.(Good strength with carbon steel)



Wire Checking Clip

By clipping the wire with this clip, the needle with in the clip will pierce through the wire, and so user can test the system without unplug the wire or clear all the insulator



Round terminals

1.5mm (Male / Female)+ Female banana socket (3pcs / each)
 2.0mm (Male / Female)+ Female banana socket (3pcs / each)
 3.5mm (Male / Female)+ Female banana socket (3pcs / each)
 4.0mm (Male / Female)+ Female banana socket (3pcs / each)



Flat Terminals

0.8mm (Male / Female)+ Female banana socket (3pcs / each)
 1.2mm (Male / Female)+ Female banana socket (4pcs / each)
 2.0mm (Male / Female)+ Female banana socket (4pcs / each)
 2.5mm (Male / Female)+ Female banana socket (3pcs / each)
 3.0mm (Male / Female)+ Female banana socket (4pcs / each)
 5.0mm (Male / Female)+ Female banana socket (3pcs / each)
 6.0mm (Male / Female)+ Female banana socket (3pcs / each)



KA-3566 Electrical Diagnose Kit

Convenient and fast to examine the electric circuit, electric machinery and parts!!

Specification:

Automotive Current Probe x 1

Wire Checking Clip x 2

- wire checking clip (yellow) x 1
- wire checking clip (red) x 1

Alligator Clip x 2

5KΩ Potentiometer (variable resister) x 2

LED light x 2

SRS connector x 2

Probe x 2

Acicular Probe x 4

Round terminals x 16

- 1.5mm Circular terminal (Male / Female)+ Female banana socket (2pcs / each)
- 2.0mm Circular terminal (Male / Female)+ Female banana socket (2pcs / each)
- 3.5mm Circular terminal (Male / Female)+ Female banana socket (2pcs / each)
- 4.0mm Circular terminal (Male / Female)+ Female banana socket (2pcs / each)

Flat terminals x 34

- 0.8mm Flat terminal (Male / Female)+ Female banana socket (2pcs / each)
- 1.2mm Flat terminal (Male / Female)+ Female banana socket (3pcs / each)
- 2.0mm Flat terminal (Male / Female)+ Female banana socket (3pcs / each)
- 2.5mm Flat terminal (Male / Female)+ Female banana socket (2pcs / each)
- 3.0mm Flat terminal (Male / Female)+ Female banana socket (3pcs / each)
- 5.0mm Flat terminal (Male / Female)+ Female banana socket (2pcs / each)
- 6.0mm Flat terminal (Male / Female)+ Female banana socket (2pcs / each)

1 to 2 connector x 2

1 to 1 connector x 4

9in fast connect wire x 3

- 1.0mm Flat terminal (Male)+(Female) × 1
- 2.2mm Flat terminal (Male)+(Female) × 1
- 3.0mm Flat terminal (Male)+(Female) × 1

User's Manual

Aluminum Carry Case

KA-3565 Wire Checking Clips

- Easy, rapid and convenient measuring checking!!

(Apply to various electric wires.)

Applicative wire diameter	1.5Ø~4.5Ø
Voltage range	0V ~ 330V
Current load	Max 0.5A

Include:

- Wire checking clip (black) x 1
- Wire checking clip (red) x 1

**KA-4044 Terminal Test Kit**

14-piece terminal adapter kit with circuit tester.

Terminals include Weather-Pack, Metri-Pack, and Micro-Pack style terminals.

External-internal design to test the circuit without damaging the connector. Use this tester to check 6 - 24 volt circuits and accessories including lights starters alternators, cooling and heating components, radios and relays. Not recommended for use on computers, sensors or computer wiring. Consult the service manual for circuit diagrams and specific test procedures.

**KA-4045 Terminal Test Kit**

14-piece terminal adapter kit with circuit tester.

Terminals include Weather-Pack, Metri-Pack, and Micro-Pack style terminals.

External-internal design to test the circuit without damaging the connector. Use this tester to check high and low voltages (power and ground) on 6, 12 and 24 volt system. High impedance to protect sensitive electronic sensors, microprocessors, electronic ignition components and air bags. LED indicates red for power (high) and green for ground (low). Connects the red lead to a power source and the black lead to a ground source.

Contents:

PARTS	DESCRIPTION	KA-4044	KA-4045
	Heavy Duty circuit tester	●	—
	LED circuit Tester	—	●
	6.0mm male/female terminal	●	●
	5.0mm male/female terminal	●	●
	3.0mm male/female terminal	●	●
	2.5mm male/female terminal	●	●
	2.0mm male/female terminal	●	●
	1.2mm male/female terminal	●	●
	0.8mm male/female terminal	●	●
	Ø4.0 banana adapter	●	●
	Alligator Clip x 2	●	●
	Wire Check Clip x 1	—	●
	1 to 1 Male/Female Extension Wire x 2	—	●



KA-9301
Plastic Case Battery Brush



KA-9302
Plastic Case Battery Brush



KA-9303
Metal Case Battery Brush
(ZINC PLATED, NICKEL PLATED)



KA-9305
Profession 4 Way Battery Post &
Terminal Cleaner



KA-9307 Battery Post Shims



KA-9308 Battery Filler



KA-9310 3 Way Battery Cleaner



KA-9311
Universal Battery Hold Down
Rubber Clamps



KA-9312
Side Terminal Battery Brush



KA-9345
Steel Battery Terminal Lifters



KA-9201
Large Replacement Battery Tray



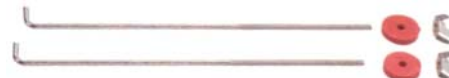
KA-9209
Adjustable Battery Hold Downs



KA-9340 Battery Carrier Strap



KA-9342
12" "J" Style Battery Hold Down
Bolts



KA-9343
10" "L" Style Battery Hold Down
Bolts



KA-9318
Clamp Type Wing Nut
Lead Terminal

A. 5/16" 100CARDS 0.4'
B. 3/8" 72CARDS 0.45'
C. 5/16" 10CARS 0.45'



KA-9322
Heavy Duty Universal
Lead Battery Terminal

72CARDS
GW:19.00KGS 0.45'



KA-9321
Swan Type Battery
Terminals

72CARDS
GW:22.00KGS



KA-9323
Heavy Duty
Replacement Side
Terminal

144CARDS
GW:19.00KGS 0.8'



KA-9325
Angle Type P&N Brass
Battery Terminals

100CARDS
GW:18.00KGS 1.2'



KA-9324
Side Terminal Battery
Wrench

100CARD
GW:16.00KGS 1'



KA-9326
Heavy Duty Universal
Lead Battery Terminal

72CARDS
GW:19.00KGS 0.45'



KA-9331
Speed Japanese Type
Brass Terminal

144CARDS
GW:19.00KGS 0.9'



KA-9327
Wing Nut Marine Brass
Terminals

144CARDS
GW:26.00KGS 2.17'



KA-9332
Universal Solderless
Brass Battery
Terminal

20CARDS
GW:16.00KGS 1'



KA-9328
Side Terminal Cable
Adapters Kit

48CARDS
GW:23.00KGS 1'



KA-9333
Emergency Bolt Type
Brass Terminal (S)

20CARDS
GW:16.00KGS 1'



KA-9329
Slide Terminal Charging
Post

120CARDS
GW:22.00KGS 0.6'



KA-9334
Speed Japanese Type
Zinc Battery Terminal

288CARDS
GW:25.00KGS 0.8'



KA-9330
Standard Universal
Lead Battery Terminal

100CARDS
GW:17.00KGS 0.9'



KA-9335
U Type P&N Brass
Battery Terminal

40CARDS
GW:26.00KGS 1.3'



KA-9336 Grip-Tight Battery Carrier

For all 6 and 12 volt batteries. Rugged, zinc plated steel jaws grip battery securely for lifting. Acid resistant, nonconductive strap. Designed to carry side terminal or post batteries. Easy one hand control.



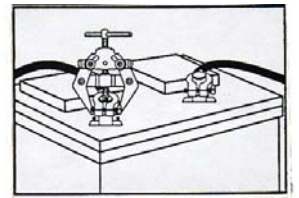
KA-9337 Battery Holder

- Self locking design with rubber grip pads provide a secure grip on batteries 4-1/2" to 7" width.
- Suitable for top and side terminal batteries.
- Allows one handed lifting of batteries in awkward locations.
- Heavy duty zinc-plated steel construction for long life.



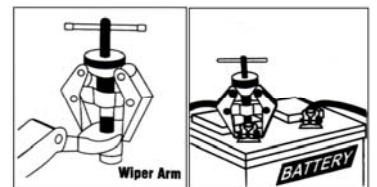
KA-6674 Battery Terminal/Alternator Bearing Puller

The tightest terminals will be lifted off without damage to the battery case or posts, because the sharp jaws are able to engage either below or on the sides of terminals. The centre screw swivel also makes this puller very effective on alternator bearings.



KA-2431 Battery Terminal & Wiper Pick Up Tool

- To working for battery terminal & windshield wiper...etc.
- The tights at terminals will be lifted off without damage to the battery case or posts, because the sharp jaws are able to engage either below or on the sides of terminals.
- The center screw swivel also makes this puller very effective on alternator bearings.
- Travel: 4" Long.



KA-6674A Heavy Duty Battery Cable and Small Bearing Puller

- Use toggle-type action to grip onto all standard post battery terminals.
- Pulls small bearings and gears with 1" reach and spread.
- Weight: 300g



KA-9346
Red & Green Side Post Battery Terminal Protector



KA-9347
Red & Green Top Post Battery Terminal Protectors



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-7501 Battery Tester

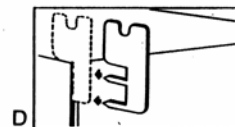
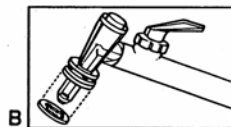
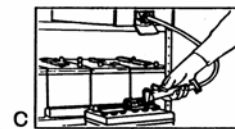
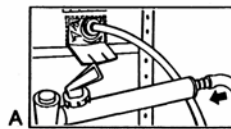
- Deluxe type and more function such as starter motor load, dynamo condition, individual load current.
- Suitable capacity of batteries 18-200 AH 12V (24V).



KA-6842 Battery Tester

- Quickly identifying problems in battery, electrical or charging systems in 20 second test
- Heavy duty cable and copper plated clamps

KA-6682-1 Dry Charge Battery Filler



Insert points of holder in corrugations
Of front flap of acid pack. Push all the way in.

1. Attach hose from acid bag to ribbed filler nipple. (Be sure hose clip is closed before cutting sealed end off)
2. Add or remove washers to desired cell fill level.
Nozzle of filler should not touch plates or inner fill ring.
3. Open hose clip, revolve 90° and leave open. Take kinks out of hose. Place nozzle in cell, push firmly down on thumb valve.
4. Hold valve down until "EYE" turns black. Cell is full. Move on to next cell.
5. When battery is full, hang filler up on holder card. (Install holder as shown)

NOTE:

When changing to new acid pack, stand old pack on closed end. Hold filler above pack, depress valve to drain unit. Close hose clip and carefully remove filler. Wipe tip of filler with damp soft cloth to maintain "Cell-Eye" image.

Fast neat way to fill dry charge batteries. Positive thumb release valve controls acid flow.

- Helps eliminate spills, burns, and damage to clothing.
- Features "Cell-Eye" to indicate when battery is full.
- Attaches to any standard acid pack tube.
- Ribbed nipple holds tube in snugly.
- Handy hanger card.
- Spacers included for different fill heights.

**KA-6841 Battery Charger**

Input : 100 ~ 240V AC 50/60 HZ

Output: 12V = 4A 65W

LED Indicators:

- Green: power on disconnect (or) full charged
- Red: Charging

**KA-7502 Car Battery & Alternator Checker**

- Led lights indicate car battery condition (engine stop) or output of alternator (engine running).
- Lights show in poor, fair or good condition.
- Magnetic backboard keeps your hands free for checking.

**KA-3568 Battery Analyzer**

- Measure the life of battery easily, quickly, accurately and safely.
- For 12V vehicle battery only
- Working voltage range is 9V ~ 15V DC, don't operate on a series battery(24V)
- Please operate after turn on the headlight 3~5 minutes to clean the surface voltage when the battery was just full recharged

**Accurate**

Unique internal-resist and lifetime, more accurately.

**Easy**

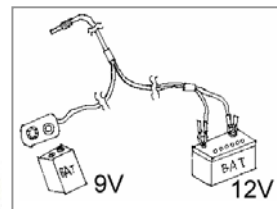
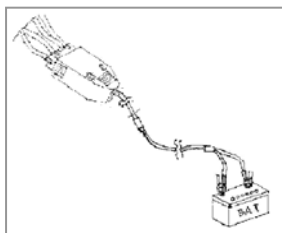
Find and input the battery specification then press enter.

**Safe**

Conductance test, more safe and convenient.

KA-3568A Battery Analyzer (For Motorcycle)**KA-3570 Uninterruptible Power Supply Without On Board Diagnostic II (OBD II 16pin)****KA-3570A Uninterruptible Power Supply With On Board Diagnostic II****(NEW STYLE)**

- * Built-in fuse
- * 2.2M electrical cord.

**Feature:**

Each car is equipped with electronic / computer device. When the battery needs to be replaced or temporarily stop, we need to re-set the system after repair. It makes the system be prone to problems such as "unable to ignite" or "abnormal running". KA-3570 battery power supply would make the power supply interrupt.

Procedure:

1. Please remove the car keys before stop the battery power supply.
2. Connect KA-3570 Uninterruptible Power Supply(OBD II 16pin) to OBD II plug. Observe if KA-3570 illuminate one light to ensure they are firmly connected.
3. Connect the power supply with 12V power, and KA-3570 would illuminate two lights. If the RED light illuminates, the power supply is under 7.5V±0.5. Please do not change batter at the stage.

Warning: Please close all doors before changing the battery to avoid power consumed by car interior light.



KA-V0001 Professional Type Power Master

- Output Voltage: 12V 500A
- Battery: 12V/ 25H
- Charge Time: 20-24 hours (indoor), 4-6 Hour (in car)
(Initial charge time: 48 hours for fully charge power)
- Weight: 8.2 kg
- Indoor Charger, Cigarette Charger, Battery Charger and Car Battery/
Alternator Tester
- U.S. PATENT, TAIWAN PATENT.
- CE Certified/ Approval



APPLICATION

1. Start the Stall Car: Connect the red clamp to the (+) of car battery & black clamp to (-) of car battery.
2. Checking the Car Battery Volume: touch the (-) of car battery with black clamp, put the car Battery tester into the "Hole" for tester, touch the (+) pole of car battery with the Car Battery tester.
3. When Generator is Broken: Ignite the car, connect the power master to the cigarette plug and the Charge/ Release Hole. The power last 2-3 hours.
4. Maintain the Setting / Memory of the Car Stereo System and Computer when changing battery: Connect the power Master with the cigarette plug, then change the battery.
5. Check the Car Motor
6. Emergency Light Source: Turn on the light for illumination. Or connect the working light for illumination.
7. Plug with a Transformer: Power Master provide the power for home appliances such as notebook or fax machine.
8. Emergency Power Sources.
9. Fast Recharge Power: When the Power Master is out of power, you can recharge Power Master with the car battery with battery clamp in only 15 minutes.

(Note: when the Red light illuminates on the indication board, please recharge the power master within 2 days)



KA-V0002 Power Master – Simple Type

- Output Voltage: 12V 500A
- Battery: 12V/ 20AH
- Charge Time: 20-24 hours (indoor), 4-6 Hour (in car)
(Initial charge time: 48 hours for fully charge power)
- Weight: 8.2 kg
- Indoor Charger, Cigarette Charger, Battery Charger

(NO TESTING FUNCTION)

- U.S. PATENT, TAIWAN PATENT.
- CE Certified/ Approval



APPLICATION

1. Start the Stall Car: Connect the red clamp to the (+) of car battery & black clamp to (-) of car battery. It can also start a 3000 cc car.
2. When Generator is Broken: Ignite the car, connect the power master to the cigarette plug and the Charge/ Release Hole. The power last 2-3 hours.
3. Maintain the Setting / Memory of the Car Stereo System and Computer when changing battery: Connect the power Master with the cigarette plug, then change the battery.
4. Emergency Light Source: Turn on the light for illumination. Or connect the working light for illumination.
5. Plug with a Transformer: Power Master provide the power for home appliances such as notebook or fax machine.
6. Emergency Power Sources.
7. Fast Recharge Power: When the Power Master is out of power, you can recharge Power Master with the car battery with battery clamp in only 15 minutes.

(Note: when the Red light illuminates on the indication board, please recharge the power master within 2 days)

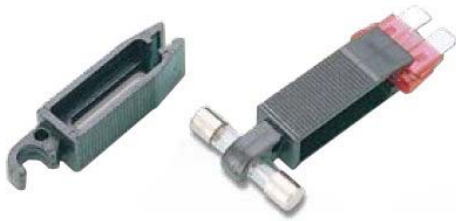


KA-V0003 Portable Power Source

- 12 Volt-2200 Peak Amps, 500 Cold Cranking Amps (CCA)
- 24 Volt-1100 Peak Amps, 250 Cold Cranking Amps (CCA)
- External AC charger (output 1.5A 15V DC)
- 17Ah*2(GS 1217) Battery Type
- able Gauge #2, length-6 ft./72inches/183cm
- Spark prevention
- Clamp: Plastic, 30% nylon w/rugged jaw 600A

Feature:

- Portable power source provide ultimate portable power.
- It contains maintenance free battery delivers high peak amps and crank assist power.
- Polarity connect reverse protection is available.
- Perfect jump starter for professional and emergency rescue.
- Heavy duty copper jaw and metal clamps good for solid connection to battery posts.
- Easy to read battery status LEDs tell user percentage of battery level.
- Integrated PCB will automatically cut off power when integrated battery charged.
- 12VDC outlet equips with overload and short circuit protection for external 12V accessory.
- DC to DC power extension cord to charge from 12V vehicle lighter socket.

**KA-1289 Fuse puller****Blade Fuse & 3AG Fuse - Short-Dual Type Puller**

Applications: ATY-N(ATO/ATC) Fuse & AGC(3AG) Fuse

Body Color: Black

Dimensions(L x W x H): 50 x 12 x 12.3mm

**KA-1283****Maxi Fuse & 5AG Fuse - Dual Type Fuse Puller**

Applications: MAX-N (MAXI & MAX) Fuse & AGU(5AG) Fuse

Body Color: Yellow

Dimensions(L x W x H): 88 x 24.5 x 17.5mm

**KA-1284 ATY-N Fuse Puller**

Applications: ATY-N (ATO/ATC) Fuse

Body Color: Yellow

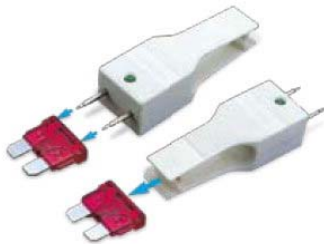
Dimensions(L x W x H): 31.3 x 10.1 x 10.8mm

**KA-1288 Mini Fuse Puller**

Applications: MINI-N(ATM & MIN) fuse

Body Color: Orange

Dimensions(L x W x H): 32.8 x 13.5 x 11.4mm

**KA-1287 Blade Fuse Puller & Tester With LED**

Applications: ATY-N (ATO/ATC) Fuse

Body Color: White

LED □ 3.0mm Color: Green

Dimensions(L x W x H): 65 x 20.1 x 15.1mm

- Fuse Testing:
If the fuse is broken, the LED will not light.
If the fuse remains functional, the LED will light.

**KA-1285 Mini Fuse Puller & Tester With LED**

Application: MIN-N (ATM & MIN) fuse

Body Color: White

Dimensions(L x W x H): 66.6 x 19.7 x 15.2mm

- Fuse Testing:
If the fuse is broken, the LED will not light.
If the fuse remains functional, the LED will light.



KA-1050



KA-1051

Fuse Puller**KA-1050 KA-1051**

- Pulls 0-200 AMP, 250 Volt or 0-100 AMP, 600 Volt fuses.
- Plastic shockproof construction
- For removing or installing fuses.

**KA-1286 Fuse Puller****Blade Fuse & 3AG Fuse -Long-Dual Type Puller**

Applications: ATY-N (ATO/ATC) Fuse & AGC(3AG) Fuse

Body Color: Orange

Dimensions(L x W x H): 105.2 x 10.3 x 13.8mm



KA-6730 Heavy Duty Electric Circuit Tester- Power On

Bulb lights within handle to indicate open, grounded or short circuits on 6-12-24 Volt AC or DC systems, Features heavy duty 4-3/4" (121mm) probe and extra long 60 inch (152mm) cable to reach into open test area. Tension relief spring connects cable to handle for long life. Heavy-duty ground clip is enclosed in thick anti-shock boot cover.



KA-6731 Electric Circuit Tester- Power On

Test 6-12-24 volt circuits for wire breaks, shorts, fuses, lamps, relay armatures. etc. with power on. 4" inspection probe set in threaded ferrule and screwed into plastic handle. 36" (914mm) 16 gauge wire with alligator clip.



KA-6745 Car-Light-Tester 6-24 Volts

- Fully shielded indicator bulb
- Insulated test lead with alligator clip
- Pointed probe for piercing wires.



KA-6758 Circuit Tester For 3-48 Volt

- Circuit tester with test lead for either passenger cars or trucks.
- Checks circuit between 3-48V
- LED indicates polarity.



KA-6755



KA-6756



KA-6757

Car Light Testers, 6-24 Volt

- Solid brass body with a test light
- Prod tip is covered a brass protective screw cap
- 850mm cable with an alligator clip on the end

KA-6755 (Silver)

KA-6756 (Yellow)

KA-6757 (Yellow)



KA-3489 Voltage Testing Tool

- Check 110-250VAC.
- Tests voltage, continuity and polarity.
- By contact 110-250VAC,
- By non-contact 110-600VAC,
- Two LR41 1.5V Batteries Included.



Screwdriver Probe Voltage Testing Tool (CE Conformity)

KA-3490

VDE Approval, testing range from 220 to 250V AC
Length: 140mm

KA-3490A

TUV Approval, testing from 110 to 250V AC
Length: 140mm



KA-1232 Electronic Voltage Detector with Buzzer

- Tester for voltage from 100V to 600V
- Locates break along live, insulated wire and power cords.
- Audible and visual indication.
- 4-sections Power/Sensitivity switch (H, L, M, OFF)
- Two LR44, 1.5V batteries included.



KA-1233



KA-1233A

Non-contact Voltage Tester

- Over voltage category: CAT III
- Power supply: two AAA battery

KA-1233 (Tests for voltage from 100V to 600V AC)

- Light & Sound indications:
 - Low gear(L): red light glows once and one beep
 - Medium gear(M): green light glows twice and two beeps
 - High gear(H): orange light glows three times and three beeps
- Power off automatically and manually

KA-1233A (Tests for voltage from 24V to 1000V AC)

- Light & Sound indications:
 - Low gear(L): red light indication
 - High gear(H): green light indication
- Power off with knob



KA-3573 Screwdriver-Voltage-Continuity tester

- With LED indicator and pocket clip
- Screwdriver tip fits common screw size.
- Check voltage from 12V to 300V AC.
- Two LR44(1.5V) batteries included



KA-1031 Tester Circuit, Multi-voltage

- Compatible with current 12V system plus newer 42V system.
- LED indicates blue for 12V and red for 42 systems.
- Heavy-duty alligator clips help prevent accidental shorts
- New crystal-clear handle provides 360° visibility, even in bright light.

**KA-6775 Heavy Duty Circuit Tester**

- Checks 6V and 12V system
- 5-ft tough flexible rubber cable with spring relief
- Heavy duty insulated ground clip

**KA-6735****KA-6735 Heavy Duty Circuit Tester**

- Checks 6V and 12V system
- 5-ft tough flexible rubber cable with spring relief
- Tough plastic handle lights up if circuit is good

**KA-6735A****KA-6735A Mini Heavy Duty Circuit Tester**

- Checks 6V and 12V system
- 5-ft tough flexible rubber cable with spring relief
- Tough plastic handle lights up if circuit is good

**KA-1026 Adjustable Non-contact Wire Tracer****Features**

- Non Contact Voltage Detection. Voltage Detectable lines between 12-600VAC.
- Reads hot wire with respect to ground. Easy to recognize audible and visual indication.
- Compact, light, sleek, hand-held design, complete with a durable built in pocket clip.

Specifications

- Working voltage range: 12-600 VAC max to ground
- Require two LR44/1.5V batteries (not included)
- Frequency: 50/60HZ
- Dielectric strength: 2000V, 1 minute, 100uA or less during dielectric strength test
- Operating environment: 3°F to 104°F (0°C to 40°C) 80%RH max. 50% RH above 31°C

**KA-1049 Auto Circuit Tracer Detector**

Find short and open circuits fast and easily.

It is designed to identify and trace wires or cables without damaging the insulation, you just simply attach the sender unit to the circuit and follow the wires using the detector. There is a sender and a receiver included in the instrument.

- Suitable for all DC circuits up to 42V
- Checking for short circuit
- Locating open circuit
- Battery voltage indication
- Two 9V batteries required





KA-1035 20A Auto Current Tester

Simply plugs into a fuse slot and the current in the circuit is displayed immediately. Provides an easy-to read LCD display of the circuits performance. Identifies the circuit draining your car battery.

Current Test:

- Maximum load: 20A/48V DC for 10 seconds
- Accuracy: $\pm 2\%$, or 0.2 reading with a decimal point

Voltage Test:

- Test range: 1~ 48V
- Accuracy: $\pm 1\%$ or 0.1 reading with a decimal point

The LCD indicates "Err" condition:

- When the positive or negative pole is connected reversely
- The tested voltage is less than 1V
- When conducting voltage test, the resistance between the measured object is less than 1K

Power Supply: one AAA 1.5V battery(not included)



Auto Circuit Tester

This equipment used to test the automotive electrical system within 6-24Volts. In order to save the testing hours for the automotive electrical system, it is designed to testing the system without re-connection between the vehicle battery and the testing components and it contains the following functions:

- Polarity testing: determine the polarity and circuit circumstance (Short/Open).
- Activating the components with positive and negative current without jumper wire.
- Testing the voltage and continuity of the circuit.
- LED Flashlight.
- Illumination



KA-1234

Multi-functional Auto Tester With LED indication

- Check from 6V to 24V system with LED indicator and illumination



KA-1234A

Multi-functional Auto Tester With LCD indication

- Check from 6V to 24V system with LCD indicator and LED illumination
- Testing the voltage of the circuit and the voltage reading will be indicated on the LCD display within $1/10^{\text{th}}$ of a volt.



KA-1234-2M

- same function to KA-1234, but with different accessories
- Accessories:
 - 2M extended lead
 - 0.8M ground lead
 - 2 alligator clips



KA-1234A-2M

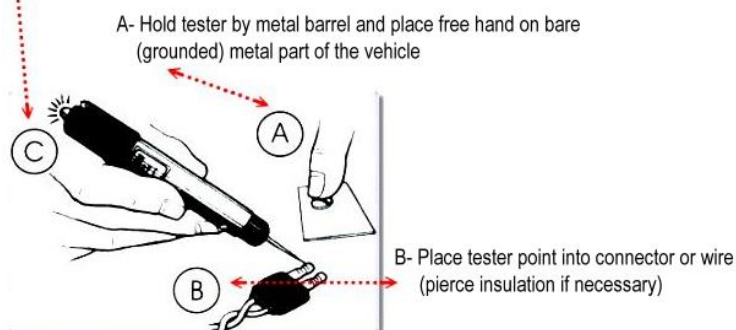
- same function to KA-1234, but with different accessories
- Accessories:
 - 2M extended lead
 - 0.8M ground lead
 - 2 alligator clips



KA-1037 Cordless Circuit Tester

- Checks 3 to 28 volt circuits.
- Safe with ECMs, sensors, transducers, airbags, etc.
- No ground wire or clip required.
- Replaceable long-life alkaline batteries included.

C-Tester will light, buzz and vibrate when a positive voltage is detected



Special designed V-tip Needle Allows Safe piercing & prevents Side-slipping when piercing wire's insulation. V-Tip can be removed to test hard to reach places.



KA-1052

KA-1052A



Voltage Tester

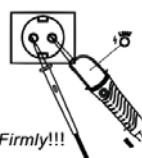
KA-1052 with LED KA-1052A with LCD

- Quickly and safely tests high and low voltages on all vehicle voltages, including computerized engine.
- Self-Diagnostic test.
- Voltage Test: 12-690V AC/DC, with LED and LCD (only KA-1052A)
- Single-pole phase test: 100-690V AC (45-100Hz)
- Polarity indication
- Phase rotation test
- Continuity test
- Auto-power ON/OFF
- Pen light for illuminating measurement points
- Two way clip for adjustable spacing of probes
- Probe cover protects user and probe tips
- IP64
- Compact design (light weight and portable)
- Measurement:

1. Double-pole test

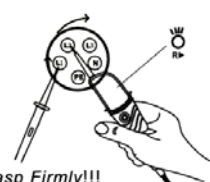


2. Up Voltage indication



Grasp Firmly!!!

3. Phase rotation test



Grasp Firmly!!!

4. Polarity indication

5. Continuity test

6. Pen light function

**KA-6684 10mm Antenna Mast Wrench**

This special pin wrench is used for removing and installing bezel nuts when servicing antennas and aerals on most vehicles.
Designed to service Ford, GM, Chrysler, VW, Toyota and others.

**KA-6638 Ford Radio Removal Tools**

Simply insert these tools into the holes on the radio face plate to release the retaining clips, then use them as handles to pull the radio from the instrument panel.
Two piece set supplied on blister card.

**KA-2540 Radio Removal Tool**

To radio removal on 1992 and newer Mercedes.
Applicable: Models 140, 129, 202 & 210.

**KA-2541 Ignition Lock Removal Tool set**

Contains: 2pcs removal tools for Model W126
2pcs removal tools for Models W124 & 201.

**KA-2403 Pair of Hooks**

For removing instrument cluster.
Applicable: Models W107, 116, 123, 124, 126, 140 & 201

46pcs Radio Removal Tool Set



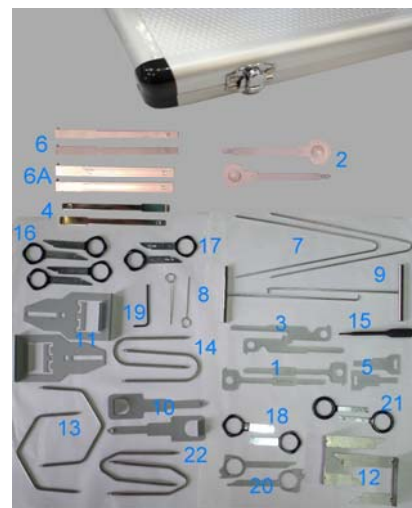
KA-6963K-46

– Aluminum Case



KA-6963K-46B

– Blow Case



Contents:

NO.	Description	QTY	NO.	Description	QTY
1	KENWOOD II 1998-2001	2	12	FIAT BRAVE	2
2	SONY II ab 2002	2	13	OPEL	2
3	KENWOOD III ab 2002	2	14	BLAUPUNKT, GRUNDIG, VW,AUDI, FORD	2
4	PIONEER & JVC	2	15	BMW	1
5	SONY I bis 2001	2	16	VW, AUDI, BECKER, MERCEDES BENZ	4
6	PANASONIC	2	17	BECKER, PORSCHE, MERCEDES BENZ	2
6A	PANASONIC 2006	2	18	VW	2
7	MERCEDES BENZ & BMW	2	19	BMW, OPEL- inbus	1
8	MERCEDES BENZ & BMW	2	20	BECKER NEU ab 2002	2
9	MERCEDES BENZ & BMW	2	21	SKODA NEU ab 2002	2
10	CLARION-NEU	2	22	BLAUPUNKT NEU ab 2002	2
11	CLARION (ALT)				

KA-6963K-52

52pcs Radio Removal Tool Set



Model	QTY
Radio Removal U-Hook (FORD/VW/AUDI/GRUNDIG/BLAUPUNKT)	2 pcs
Special Pentagon Wrench (BMW)	1 pcs
Radio Removal Keys (VW/AUDI/BECKER/MERCEDES-BENZ)	4 pcs
Radio Removal Keys (MERCEDES BENZ/ PORSCHE/BECKER)	2 pcs
Radio Removal Keys (VW)	2 pcs
Allen Hex Wrench (BMW/OPEL)	1 pc
Radio Removal Keys (NEW BECKERS)	2 pcs
Radio Removal Keys (NEW SKODA)	2 pcs
Radio Removal U-Hook (NEW BLAUPUNKT)	2 pcs
Radio Removal Keys (FIAT BRAVA)	2 pcs
Radio Removal U-Hook (OPEL Doppel-Kugel-Inbus)	2 pcs
Radio Removal Keys (MERCEDES BENZ & BMW)	6 pcs
Radio Removal Keys (KENWOOD II 1998-2001)	2 pcs
Radio Removal Keys (SONY II ab 2002)	2 pcs
Radio Removal Keys (KENWOOD III ab 2002)	2 pcs
Radio Removal Keys (PIONEER & JVC)	2 pcs
Radio Removal Keys (SONY Ibis 2001)	2 pcs
Radio Removal Keys (PANASONIC)	2 pcs
Radio Removal Keys (KENWOOD Ibis 1998)	2 pcs
Radio Removal Keys (KENWOOD-NEW)	2 pcs
Radio Removal Keys (CLARION-NEW)	2 pcs
Radio Removal Keys (CLARION(ALT))	2 pcs
Radio Removal Keys (PANASONIC 2006)	2 pcs
Radio Removal Keys (SONY IDIC 2005)	2 pcs



KA-6960K 9pcs Radio Removal Tool Set

Contents:

- For Ford/VW models with a din chassis.
- For BMW models with anti-theft radio.
- For Audi A4, A6, A8 and VW new beetle.
- For 1992 & newer Mercedes 129, 140, 163, 202, 210 models.
- For VW new body style Passat, Jetta and Golf.
- Made of stainless steel



10pcs Radio Removal Tool Set

Contents:

- For Ford/VW models with a din chassis.
- For BMW models with anti-theft radio.
- For Audi A4, A6, A8 and VW new beetle.
- For 1992 & newer Mercedes 129, 140, 163, 202, 210 models.
- For VW new body style Passat, Jetta and Golf.
- For BMW hex key 2mm

KA-6960A – Made of Plate Metal
– Red coated ring & Pouch

KA-6960KA – Made of Stainless Steel
– Stainless



KA-6960KA



KA-6963K



KA-6963KB

18pc Radio Removal Tool Kit

Contents:

- (1) 2pcs blaupunkt (NEW)
- (2) 2pcs For Skoda (NEW)
- (3) 2pcs For Becker (NEW)
- (4) 1pcs For BMW /OPEL
- (5) 2pcs For VW /Becker
- (6) 2pcs For Porsch / Mercedes Benz
- (7) 4pcs For VW / AUDI Becker / Mercedes Bena
- (8) 1pc For BMW
- (9) 2pcs For VW / Ford / AUDI /Groundig /Blaupunkt

KA-6963K – Made of Stainless Steel
– Pouch Bag

KA-6963KB – Made of Stainless Steel
– Blow Case



KA-6963K-20 20pcs Radio Removal Tool Set

Made of Stainless Steel

Set includes the following tools needed to install and remove radios:

- 4pcs Radio Removal Keys (New VW Beetle/Audi)
- 2pcs Radio Removal Keys (Mercedes Benz)
- 2pcs Radio Removal Keys (VW)
- 2pcs Radio Removal Keys (New Skoda)
- 2pcs Radio Removal Keys (New Becker)
- 2pcs Radio Removal Keys (Pioneer)
- 2pcs Din Radio Removal U-Hooks (New Blaupunkt)
- 1pc Allen Hex Wrench (BMW)
- 2pcs Din Radio Removal U-Hooks (Ford/VW/Audi)
- 1pc Special Pentagon Wrench (BMW)



KA-6511K Mercedes & BMW Ignition Lock Set

- Complete kit for removal and installation for Mercedes and BMW motor vehicles. Stored in a plastic case.
- Includes:
 - 2pcs Instrument cluster removal hooks for models: 107, 116, 123, 124, 126, 140 & 201.
 - 2pcs Radio removal tools for 1992 and newer Mercedes vehicles Models: 140, 129, 202 & 210.
 - 2pcs Ignition lock removal tools for models W124 & 201.
 - 2pcs Ignition lock removal tools for models W124, 126 & 201.



KA-6511B 14pcs Radio Removal Tool Set

For Mercedes & BMW ignition lock & radio service



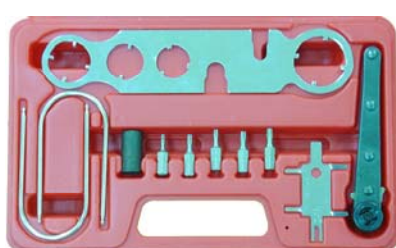
KA-3981 Mercedes-BENZ Dashboard Service Tool Set

- 2pcs removal hooks for instrument cluster on models W107, W116, W123, W124, W126, W140 and W201.
- 2pcs removal tools for ignition lock on model W126.
- 2pcs removal tools for ignition locks on model W124 and W201.
- 4pcs radio removal tools on models W129, W140, W202 and W210.

Antenna Wrench & Radio Service Set



KA-5518A



KA-5518K



KA-5518B

Contents	KA-5518A	KA-5518K	KA-5518B
Universal Antenna Wrench	•	•	•
GM Code Retriever	•	•	•
Chrysler Radio Removal Socket	•	•	•
Ford Radio Removal Lock Pin Set	•	•	•
1/4" Hex Bit Holder Socket	•	•	•
1/4" Hex Torx Bits: T10 & T15	•	•	•
1/4" Hex Tamper Torx Bits: T7, T10, & T15	•	•	•
1/4"DR. Ratchet Wrench		•	
BMW models with anti-theft radio.			•
Audi A4, A6, A8 and VW New Beetle.			•
For 1992 & newer Mercedes 129, 140, 163, 202, and 210 models.			•
For VW New Body Style Passat, Jetta and Golf.			•



KA-8203 Antenna Nut Socket

Four-prong socket has 11/16" external hex. Nickel/chrome finish. Services: 1985-90 Ford Taurus and Mercury Sable, 1990 Lincoln Mark VLL.



KA-8204 Power Antenna Nut Socket

Four-prong socket has 3/4" external hex. Overall length is 44.5mm. Nickel/chrome finish. Services: 1977-current GM cars.



KA-8205 Antenna Nut Socket

Four-prong socket has 11/16" external hex. Nickel/chrome finish. Services: 1988-90 GM Cavalier and Sunbird, 1988-90 GMT400 pick-up trucks C and K, 1989-90 Lincoln Town car and Continental, 1990 Toyota Camry and Celica, Chrysler/Mitsubishi tazer and Eclipse, Mitsubishi Galant and Sigma.



KA-8206 Antenna Nut Socket

Three-prong socket has 11/16" external hex. 3/4" in diameter, 1-1/2" long. Nickel/chrome finish. Services : 1987-current Chrysler vehicles.



KA-8208 Antenna Nut Socket

Two-prong socket has 11/16" external hex. Nickel/chrome finish. Services: 1989-90 Ford probe, 1989-90 Mazda Rx7 and 926, Nissan Stanza and Maxima.



KA-8210 3/8" Drive Remote Control Mirror Socket

Suit Ford. & VW

KA-8209 Radio Trim Nut Socket

Suit GM & Ford vehicles.



KA-8202 5pcs Special Socket Set

These special pin sockets are used for removing and installing bezel nuts when servicing antennas, aerials and remote control mirrors. Suits: Chrysler, Ford, GM, GMC, Mazda, Mercury, Mitsubishi, Nissan, Toyota and other vehicles.



KA-8201 8pcs Special Socket Set

Service: Mercedes, BMW, VW, GM, Audi, Ford, Honda, Mazda, Nissan, Mitsubishi. Toyota vehicles.



KA-6963K-26 26pc Radio Removal Tool Kit & Antenna Wrench Kit

includes the following tools needed to install and remove radios:

- 4pc. Radio Removal Keys (New VW Beetle/Audi)
 - 2pc. Radio Removal Keys (Mercedes Benz)
 - 2pc. Radio Removal Keys (VW)
 - 2pc. Radio Removal Keys (New Skoda)
 - 2pc. Radio Removal Keys (New Becker)
 - 2pc. Din Radio Removal U-Hooks (New Blaupunkt)
 - 1pc. Allen Hex Wrench (BMW)
 - 2pc. Din Radio Removal U-Hooks (Ford/VW/Audi)
 - 1pc. Special Pentagon Wrench (BMW)
 - 7pc. Special Socket Set
 - 1pc. Chrysler Radio Removal Socket
-



KA-6963K-MINI Radio Removal Tool Kit

- Kit provides a variety of keys to cover a wider range of vehicles and ICE units.
 - Each key folds into the body handle like a “Swiss army knife”.
 - Each half of the tool kit allows for an even pulling action.
 - The “compact slide-apart mechanism” makes two halves separated and held together easily via an interlocking channel.
 - Eur./U.S.A./China/ Taiwan Pat.
-
-
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KA-3248 Terminal Release Tools Set (For Car Electronic And Computer)

- This collection of terminal release tools is the most complete around, covering GM, FORD, CHRYSLER, AND a variety of the vehicles.
- When terminals need cleaning or replacing, these tools are the quickest and easiest ways to release them from their plastic connectors without damaging them or delicate computer components.
- Their design makes them easier to hold on to than the key-ring style release tools.



KA-3982 12PCS Universal Terminal Release Tool Set

- Easy quick and professional repair of malfunctions due to loose contacts.
- Cover 80% all plug-type connections in passenger cars and releasing of plug-type connectors, e.g. flat and round connectors without damage.
- Universal application in the field of car electricity.
- 2-color plastic handles with foldable caps to protect the blades from damage and avoid injury.
- Application: FORD, BMW, BENZ MERCEDES, OPEL, VW, FIAT, MAN, SAAB, RENAULT, DIAMLERCHRYLER, PORSCHE, PSA, SKODA, AUDI, MAZDA, TOYOTA



KA-3511K Terminal Tools Kit

Feature:

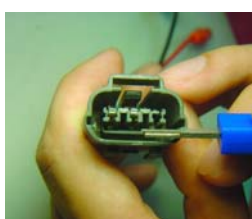
- Fits most GM and American Motors computer connectors and terminals.
- Eliminates damage to wires or terminal blocks
- Compact for easy in handling.



KA-3660 2pcs Terminal Release Tool Set



KA-3575 Housing Disassemble Kit



**KA-7326 Connector Release Tool Set**

- For use on most domestic vehicle's electrical connectors
 - Tools are designed to provide access to and disconnect electrical connectors
 - Individual "puller" and "pusher" style tools provide for easy connection/removal regardless of component location
 - Either tool can be used conveniently with one hand
-
-
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-
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KA-2994A (Blow Case)



KA-2994B (Aluminum Case)

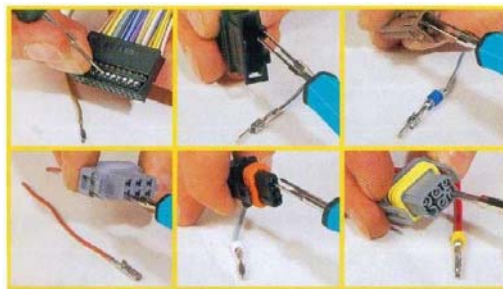
23pcs System Release Tool Set











- Release the Flat Plug Contacts...etc with Ease and Cause NO Damage.
- Easily and Fast Repair the Connection Defects or Corrosion.

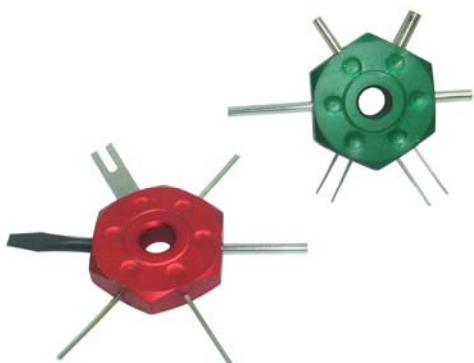
1 BENZ, BMW, OPEL, VW/AUDI	2 BENZ, BMW, JAGUAR, PORSCHE, SAAB, SEAT, SKODA	3 BENZ, BMW, JAGUAR, PORSCHE, VW/AUDI	4 FORD
5 BENZ, BMW, FORD, OPEL, PORSCHE, SEAT, SKODA, VW/AUDI	6 BENZ, BMW, FORD, JAGUAR, SEAT, SKODA, VW/AUDI	7 MERCEDES BENZ	8 BENZ, FORD, JAGUAR, OPEL, PORSCHE, VW/AUDI
9 MERCEDES BENZ, FORD	10 MERCEDES BENZ	11 BENZ, BMW, FORD, JAGUAR, OPEL, SAAB, SEAT, SKODA, VW/AUDI	12 OPEL, RENAULT, SKODA, VW/AUDI
13 MERCEDES BENZ, FORD	14 FORD, JAGUAR, PORSCHE	15 BENZ, BMW, FORD, OPEL, SEAT, SKODA, VW/AUDI	16 BENZ, BMW, FORD, JAGUAR, OPEL, PORSCHE, VW/AUDI
17 MERCEDES, BENZ	18 MERCEDES, BENZ	19 CTTROEN, CHRYSLER, FIAT, FORD, HONDA, MZADA, BENZ, MITSUBISHI, OPEL, PORSCHE, RENAULT, SEAT, TOYOTA, VW/AUSI	20 FORD
21 BENZ, BMW, FORD, JAGUAR, OPEL, PORSCHE, SAAB, SEAT, SKODA, VW/AUDI	22 HONDA, OPEL, TOYOTA, VW/AUDI	23 OPEL, VW/AUDI	 FORD



KA-6512K 15PCS Universal Terminal Release Tool Set



Description	Application	description	Application
<p>CE-01 & CE-02</p>  <p>CE-11 & CE-12</p>  <p>Ejection tools for contact sizes Ø 3.5mm W/dismantling sleeves for contact sizes</p>	<p>BMW, DaimlerChrysler, Fiat, MAN, Opel, Porsche, Seat, Skoda, VW/Audi</p>	<p>CE-05+CE-15</p>  <p>CE-15</p>  <p>Ejection tools for contact sizes Ø2.3 mm W/dismantling sleeves for contact sizes</p>	<p>Ford, Opel, PSA, Renault</p>
<p>CE-53</p>  <p>Cable extractor tool for plugs with one release channel 2.8 and 5.8 mm</p>	<p>BMW, DaimlerChrysler, Ford, MAN, Opel, Porsche, PSA, Renault, Seat, Skoda, VW/Audi</p>	<p>CE-54</p>  <p>Cable extractor tool for plugs with one release channel 2.8mm</p>	<p>BMW, PSA, Renault</p>
<p>CE-56</p>  <p>Cable extractor tool for Micro-Timer II, III contacts Ø1.6mm</p>	<p>DaimlerChrysler, Opel, Porsche, PSA, Renault, Saab, Seat, Skoda, VW/Audi</p>	<p>CE-57 & CE-58</p>  <p>For flat plug-in sockets with asymmetrically positioned latches in terminals with two release channels,</p>	<p>Seat, Skoda, VW/Audi</p>
<p>CE-59</p>  <p>Cable extractor tool for Maxi-Power Timer contacts 9.5 mm</p>	<p>DaimlerChrysler, VW/Audi</p>	<p>CE-62</p>  <p>Cable extractor tool for Pit-Pod contacts</p>	<p>all vehicle makes</p>
<p>CE-74</p>  <p>Cable extractor tool for Micro-Timer I contacts and ABS plug-in housing Ø1.6 mm</p>	<p>Fiat, Ford, Mazda, Opel, PSA, Renault, Saab, VW/Audi</p>	<p>CE-91</p>  <p>Cable extractor tool for plugs with two release channels 2.8 and 5.8 mm</p>	<p>BMW, DaimlerChrysler, Fiat, Ford, MAN, Opel, PSA, Renault, Saab, VW/Audi</p>



KA-7559K Terminal Tools

Fits most GM and American Motors computer connectors and terminals.
Eliminates damage to wires of terminal blocks.
Compact for easy in handling.

KA-7559A Red, fit most GM and American Motors

KA-7559B Green, eliminates damage to wires of terminal blocks

Master Terminal Kit

- Updated kit for most modern vehicles
- Includes newest terminal tools for Audi and Volkswagen
- Specialty tools included for coolant sensors, wiring harnesses and terminal blocks.
- Eliminates potential damage to wires and terminal blocks
- Knurled finish handles for superior grip
- Application chart included



KA-3511K-19



KA-2992A (Aluminum)



KA-2992B (Blow Case)

1 15 System Terminal Tools (General Motors).	2 15 System Terminal Tools (General Motors).	3 Open connectors (General Motors).	4 Open connectors (General Motors).	5 ALDL connectors to access fault codes (General Motors).	6 Open connectors (General Motors).	7 Removal of wires from terminal blocks (Audi & VW).
8 Use to remove wires from terminal blocks for weather pack and pack con terminals on most Domestic and Import vehicles.	9 Use to remove wires from terminal blocks for weather pack and pack con terminals on most Domestic and Import vehicles.	10 Use to remove wires from terminal blocks for weather pack and pack con terminals on most Domestic and Import vehicles.	11 Use to remove wires from terminal blocks for weather pack and pack con terminals on most Domestic and Import vehicles.	12 Use to remove wires from terminal blocks for weather pack and pack con terminals on most Domestic and Import vehicles.	13 For Chrysler, Hyundai, Kia & Mitsubishi.	14 To release tabs on modern terminal blocks (Most Domestic & Imports).
15 Sensors such as coolant temp and throttle position. (Ford, GM, Chrysler, Mitsubishi & Hyundai)	16 General Purpose - Slits harness sheathing without piercing the wires.	17 BMW, Chrysler, Jeep, Ford, GM, Hyundai, Jaguar, Kia, Mercedes, Volvo & VW.	18 For use on Audi, BMW, Chrysler, Ford, GM, Isuzu, Jaguar, Mazda, Mercedes, Mitsubishi, Nissan, Porsche, Subaru, Saab, Volvo & VW.	19 For use on Audi, BMW, Chrysler, Ford, GM, Isuzu, Jaguar, Mazda, Mercedes, Mitsubishi, Nissan, Porsche, Subaru, Saab, Volvo & VW.		