

## ET2032 28-PIECE ELECTRIC TEST CONNECTOR SET



### 1. INTRODUCTION

This Wiring Assistance Kit is very useful in automotive wiring circuits and components troubleshooting and checking.

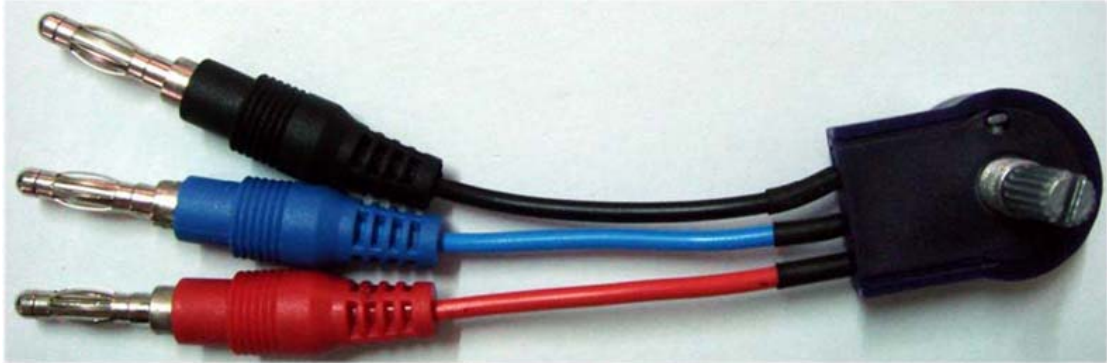
With this tool in place, it has made the job much easier and faster without splicing or cutting the wires to access to the circuits during measurement. When use in combination with test equipments such as multimeters, oscilloscope, etc, it has made the connection and checking much faster. It comes with various connecting terminals (round, flat, male and female) to cater for your needs.

The Kit 's Contents:

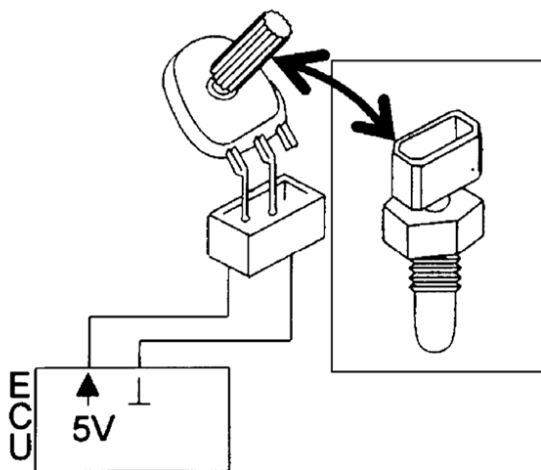
• 5k $\Omega$ Potentiometer (Variable resister)	2
• Signal Tester /LED stroboscope	2
• Two self centering piercing probes(1 yellow/1green)	2
• Test Probe Extension	2
• SRS (Airbag) Connector	1
• Big Mouth Crocodile Clip Adaptor	2
• Needle Probe	4
• Two self centering piercing probes(1 yellow/1green)	2
• 1 to 1 way Banana Plug Extension	4
• Various automotive flat terminals	8
• Hard Carry Case	1

## 2. FUNCTIONS OF INDIVIDUAL COMPONENT

### a. 5k $\Omega$ Potentiometer (Variable resistor)



This Resistance Signal Simulator is a 5K $\Omega$  potentiometer which can simulate the resistance signals of the coolant temperature sensor, throttle valve sensor, etc.



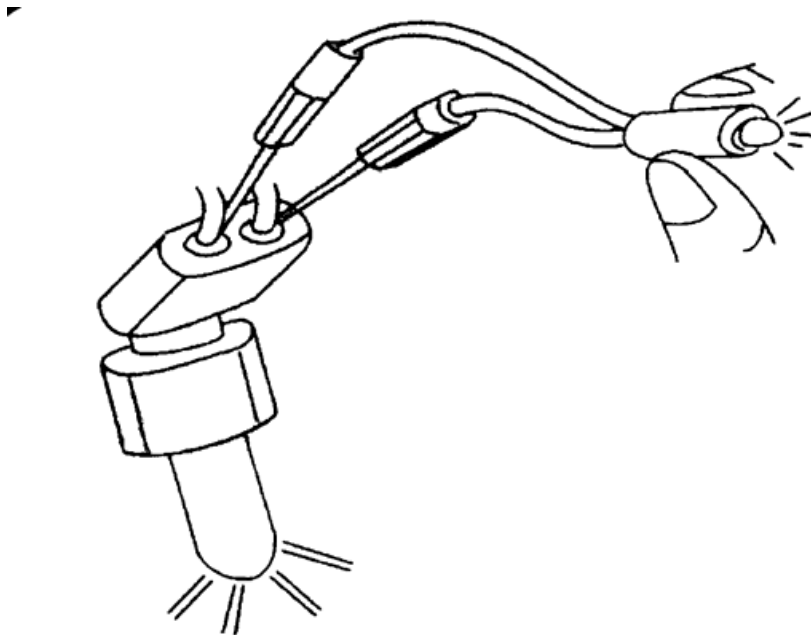
Simulating the temperature sensor signal

This can determine the condition of the sensor whether it is good or bad before replacing it when diagnosing with a diagnostic scanner.

## b. Signal Tester /LED stroboscope



This Signal Tester is very useful for checking the pulsing signals of the control systems. Its LED light will blink according to the signals received.



Detecting the injection pulse signal

Some examples of pulse signals can be detected from Hall Effect sensor, injectors, photoelectric sensors, transmission gear electromagnetic valves, control signals, etc.

It can also be used to detect the power (+) side of the circuit.

**c. Two self centering piercing probes(1 yellow/1green)**

Two self centering piercing probes not only save finger tips but make wire piercing a snap. The large and small probes enable the technician to pierce wires from 28 gauge to 8 gauge while assuring the wire is centered every single time.



**d. Test Probe Extension**



Test Probe extension with banana socket at one end

This Test Probe extension allows the multi-meter tester probes to be extended.

φ 2 MM tip probe with the end of φ 4mm jack

IEC/EN61010-031 CAT III 1000V/CAT IV600V 10A



Test Probe extension with banana plug extension cable

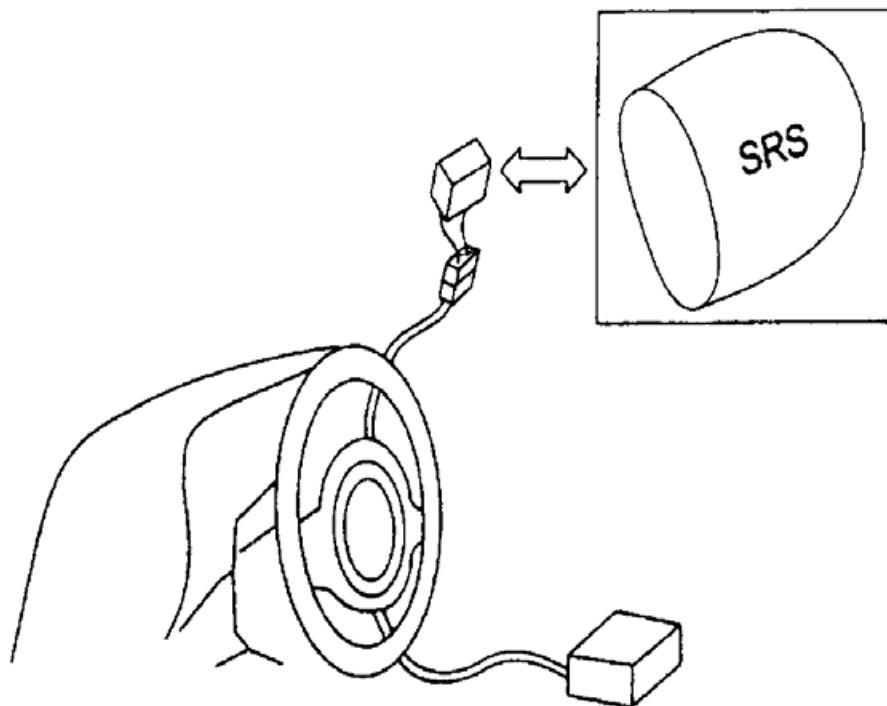
It can also be used with the banana plug extension cable to lengthen the reach of the test probes.

#### e. SRS (Airbag) Plug



The SRS(Airbag) Plug is used to test the functionality of the airbag or safety seat belt retractor circuitry.

This will ensure that the SRS or safety seat belt retractor wiring circuit is in proper working order before fixing on with the new unit. By doing so, it can avoid any damage done to the new unit in event that there is problem with the circuit



Note:

The SRS (Airbag) Plug is fused at 0.25 Amps. If the current supply is over this rating, its fuse will blow.



**f. Big Mouth Crocodile Clip Adaptor**



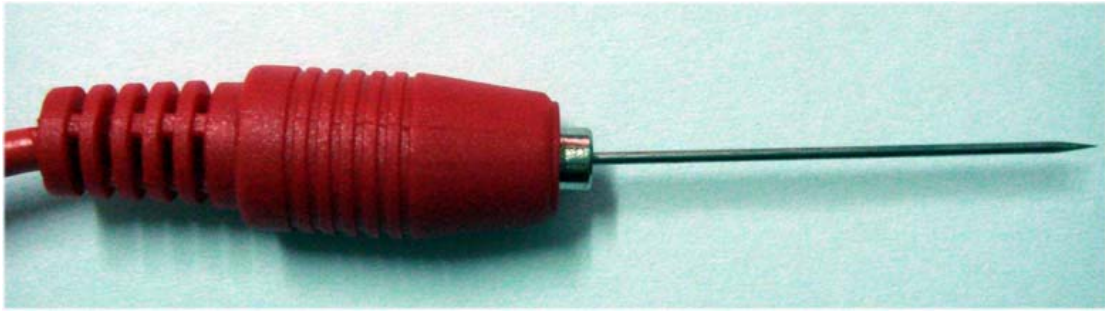
These crocodile clip adaptor comes in pair (Red & Black)  
The Big Mouth Crocodile Clip Adaptor can be used in conjunction with the test probes or banana plug extension cable.



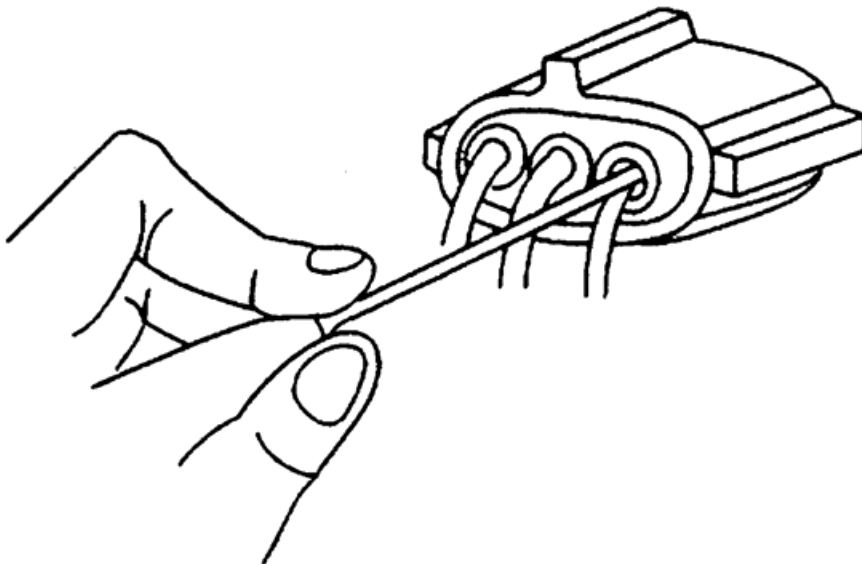
Crocodile clip with banana plug extension cable  
Its fine tooth provides a very firm grip on fine wires to a maximum jaw opening of 36mm wide.

CAT III 1000V/CAT IV600V 10A—32A

#### **g. 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.



Needle probe used at the sensor connector end

Caution:

Due to its hardened sharp pointed end, be careful when inserting or piecing the wire to avoid injuring your fingers.

#### **h. DMM Test lead set for Two self centering piercing probes**

1 black/1 red

DMM Test lead set IEC 1010 CAT III 1000V 10A Length:1200mm STD



#### **i. 1 to 1 Way Banana Plug Extension**

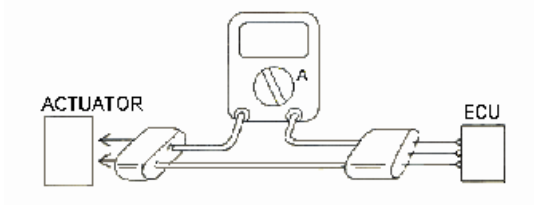


This 1 to 1 banana plug extension cable has both the socket and plug at its connector end.

Typical application:



#### **J . Various automotive flat terminals**



The assortment of Round and Flat Terminal or Socket connector cables can be used as a breakout connection for measuring signals with test equipments.