



EQP-106

ELECTRICAL TEST CONNECTOR SET

28 PIECE



CONTENTS AND APPLICATIONS

1. INTRODUCTION

This comprehensive automotive test lead set can assist the technician in obtaining accurate readings for automotive wiring circuits and eliminate connector damage, without splicing or cutting wires.

When used in conjunction with a variety of test equipment including the PlusQuip range of automotive electrical test products, the connecting and testing times are reduced.

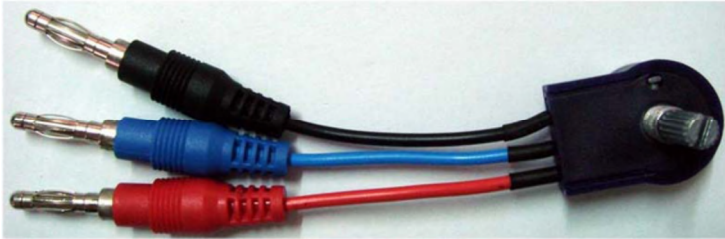
This kit includes a selection of the most commonly used connecting terminals and probes. Displayed in a hard carry case, that includes a handy multi-use 5k ohm potentiometer that can substitute many sensor output signal/voltages.

Kit Contains:

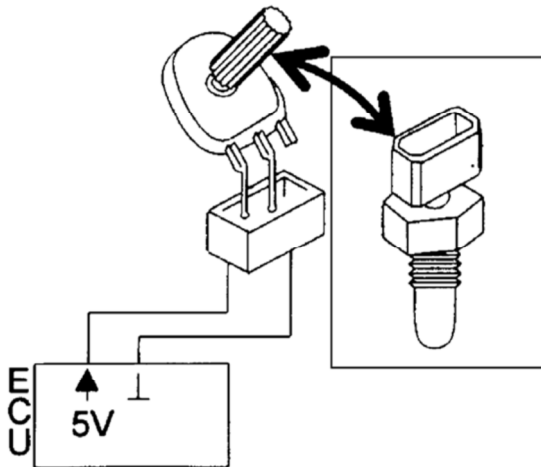
| Type | Qty |
|--|-----|
| 5kΩ Potentiometer (Variable resister) | 1 |
| Signal Tester /LED stroboscope | 2 |
| Two self-centring piercing probes (1 yellow/1 green) | 2 |
| Test Probe Extension | 2 |
| SRS (Airbag) Plug | 1 |
| Big Mouth Crocodile Clip Adaptor | 2 |
| Needle Probe | 4 |
| 1 to 1 way Banana Plug Extension | 6 |
| Various automotive flat terminals | 8 |
| Hard Carry Case | 1 |

2. FUNCTIONS OF INDIVIDUAL COMPONENT

a. 5k Ω Potentiometer (Variable resistor)



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



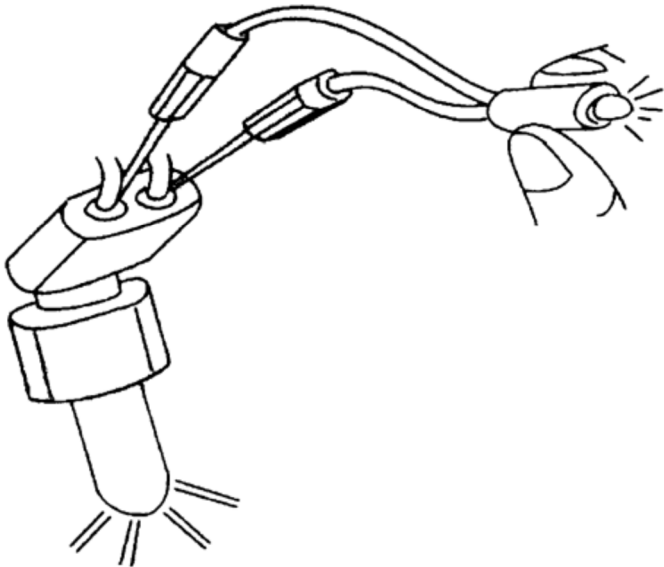
Simulating the temperature sensor signal;

This can assist in determining the condition of the sensor and related wiring.

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 the 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-centring piercing probes (1 yellow /1 green)

Two self-centring piercing probes supplied can assist with safely piercing insulated wires for testing. The large and small probes enable the technician to pierce wires from 28 gauge to 8 gauge while assuring the wire is centred every 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.

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

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



Test Probe extension with banana plug extension cable

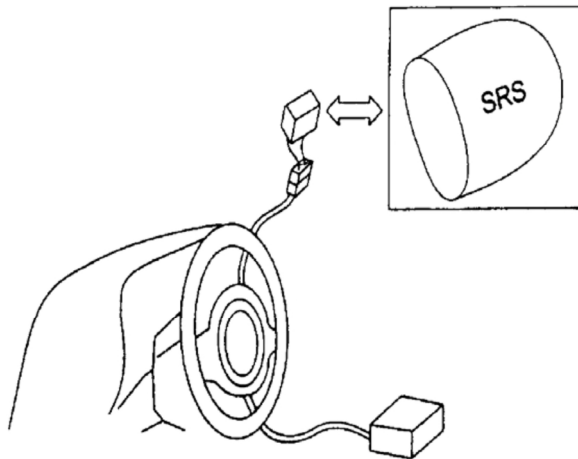
It can also be used with the banana plug extension cable to lengthen the reach of the test probes.

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 the event that there is a 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 adaptors are supplied as a pair (Red & Black)

The Big Mouth Crocodile Clip Adaptor can be used in conjunction with the test probes or banana plug extension cable.

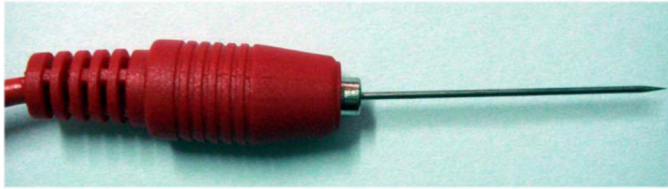


Crocodile clip with banana plug extension cable

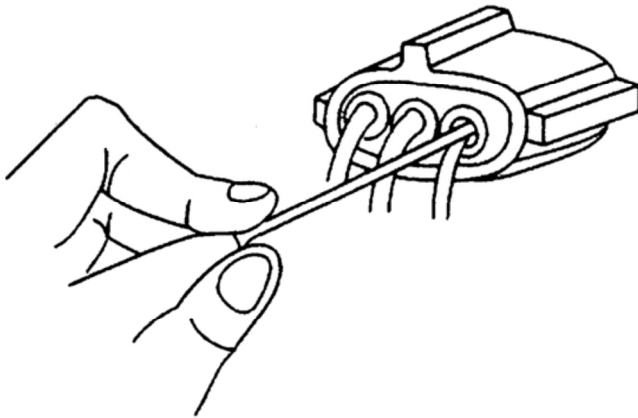
Its fine tooth provides a very firm grip on fine wires to a maximum jaw opening of 36mm.

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 is used for piecing through the insulation without noticeable damage to 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-centring 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**

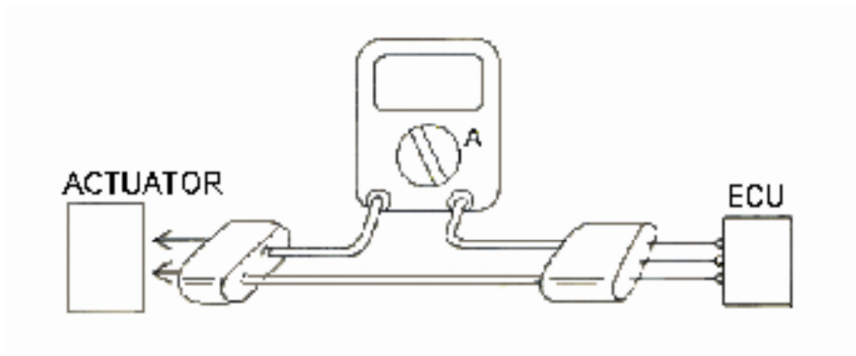


This 1 to 1 banana plug extension cable has both the socket and plug at its connector end.

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 equipment.



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