

# INSTRUCTIONS FOR: TEST LEAD KIT



**IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.**

## 1. SAFETY INSTRUCTIONS

### 1.1. PERSONAL PRECAUTIONS

- ✓ When using the test leads, please observe all normal safety rules concerning:  
Protection against the dangers of electric current.  
Protection of the test leads against misuse.

- ✗ DO NOT use leads if damaged or if the internal wire is exposed in any way.

### 1.2. GENERAL SAFETY INSTRUCTIONS

- ☐ WARNING! Never perform resistance measurements on live circuits. Only measure on disconnected circuits.
- ✓ These test leads are designed to be used on automotive circuits only.
- ✗ DO NOT use on 110 - 230V applications.
- ✓ Familiarise yourself with the application and limitations of the test leads as well as the potential hazards. IF IN ANY DOUBT CONSULT A QUALIFIED ELECTRICIAN.
- ✓ When not in use, store the test leads in the case supplied.
- ✓ Keep the work area clean, uncluttered and ensure there is adequate lighting. Keep tools and other items away from the engine and ensure you can see the working parts of the engine clearly.
- ✓ Observe standard workshop safety procedures when using the test leads.
- ✓ Consult the vehicle handbook for fuse positions and check if the fuse has blown. If the fuse has blown, first establish the reason for the fuse blowing before replacing with the same fuse type.
- ✓ Ensure test leads are kept clear of hot surfaces and rotating parts.
- ✗ Never apply voltage or current to the test leads that exceeds the specified maximum.
- ✗ DO NOT use the test leads for any purpose other than for which they are designed.
- ✗ DO NOT get test leads wet or use in damp or wet locations or areas where there is condensation.

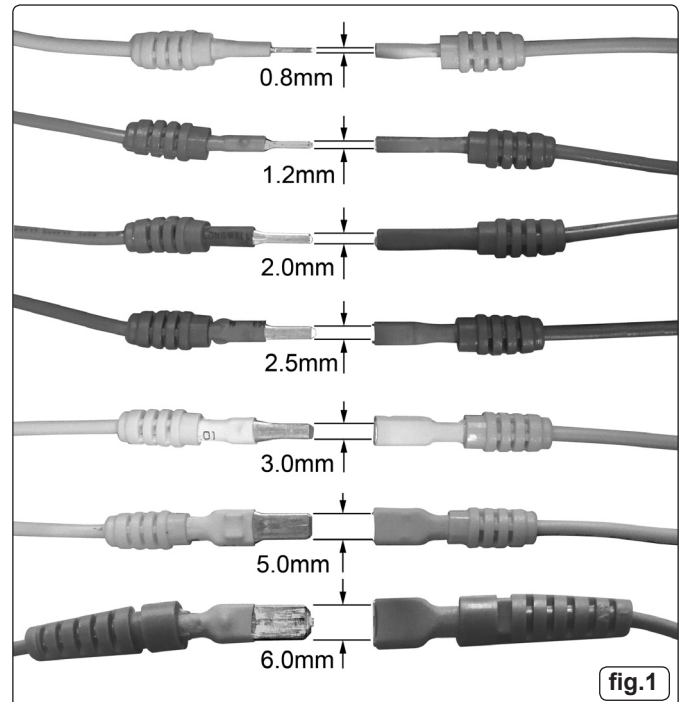
## 2. INTRODUCTION

Comprehensive set of test leads and components suitable for testing, isolating and evaluating automotive electronic circuits. Kit includes standard Ø4mm banana style plugs and sockets suitable for use with most diagnostic multimeters and test equipment. Supplied in sectioned carry-case for quick location of components.



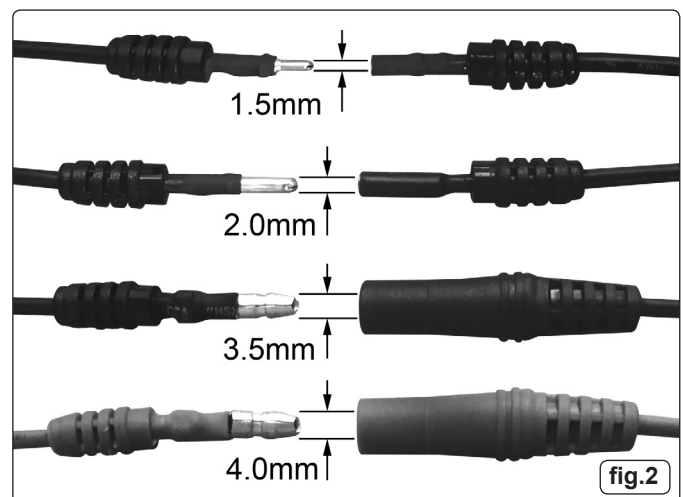
## 3. CONTENTS

Both flat and round terminals are available as shown below. Each male or female connector is attached to a short lead with a 4mm banana socket at the other end. Each lead is supplied in quantities of 3 or 4 as shown below. P.T.O. for other types of connectors.



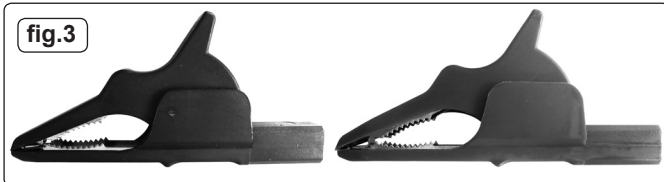
### 3.1 FLAT TERMINALS (fig.1)

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

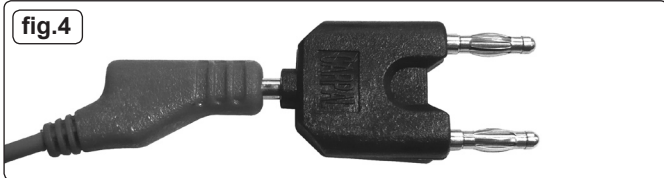


### 3.2 ROUND TERMINALS (fig.2)

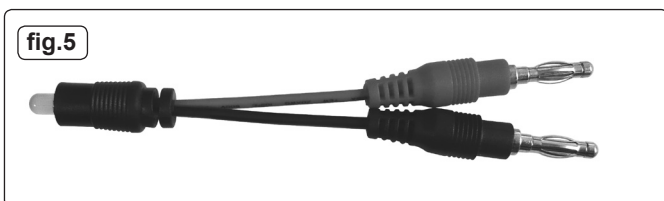
- 1.5mm (Male/Female) + Female banana sockets (3pcs each)
- 2.0mm (Male/Female) + Female banana sockets (3pcs each)
- 3.5mm (Male/Female) + Female banana sockets (3pcs each)
- 4.0mm (Male/Female) + Female banana sockets (4pcs each)



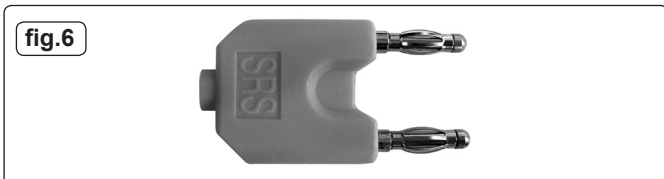
- 3.3 ALLIGATOR CLIPS (fig.3)**  
Two clips are supplied, one red (positive) and one black (negative). The banana sockets at the back of the terminals will accept the leads supplied or the probe (fig.7). Quantity - 2.



- 3.4 1 to 2 CONNECTOR (fig.4)**  
The twin leg connector shown above allows a one to two connection. Quantity - 2.



- 3.5 LED STROBOSCOPE (fig.5)**  
Two colour, two way LED. LED changes colour in response to the polarity. Quantity - 2.



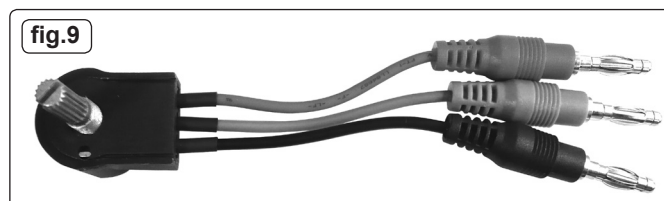
- 3.6 SRS CONNECTOR (Right) (fig.6)**  
Aids the setting up of a new SRS airbag and seat belt triggers after an accident. **Maximum current 0.25A, above this value the connector will burn out.** Quantity - 2.



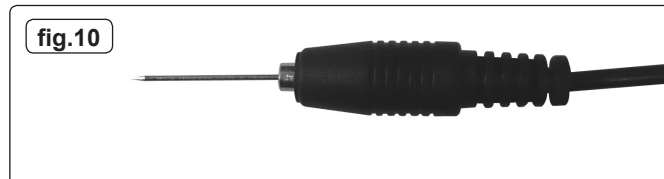
- 3.7 PROBE (fig.7)**  
The probe has a 4mm banana socket in the end of the barrel thus allowing connectivity with other components in the system. Quantity - 2.



- 3.8 MALE/FEMALE 1 to 1 CONNECTOR (fig.8)**  
Connectors are at either end of 100cm leads and allow a one to one piggy-back connection as shown above. Quantity - 4.



- 3.9 5K $\Omega$  POTENTIOMETER (fig.9)**  
Use in conjunction with various sensors such as those for engine coolant temperature, oil temperature e.t.c. Quantity - 2.



- 3.10 ACICULAR PROBE (fig.10)**  
Use the probe to pierce wire insulation to allow you to test closer to an open circuit, break or bad connection. Quantity - 4.

## 4. PARTS

ITEM	DESCRIPTION
1	4.0mm ROUND TERMINAL(M) WIRE
2	3.5mm ROUND TERMINAL(M) WIRE
3	2.0mm ROUND TERMINAL (M) WIRE
4	1.5mm ROUND TERMINAL (M) WIRE
5	0.8mm FLAT TERMINAL (F) WIRE
6	1.2mm FLAT TERMINAL (F) WIRE
7	2.0mm FLAT TERMINAL (F) WIRE
8	2.5mm FLAT TERMINAL (F) WIRE
9	3.0mm FLAT TERMINAL (F) WIRE
10	5.0mm FLAT TERMINAL (F) WIRE
11	6.0mm FLAT TERMINAL (F) WIRE
12	6.0mm FLAT TERMINAL (M) WIRE
13	5.0mm FLAT TERMINAL (M) WIRE
14	3.0mm FLAT TERMINAL (M) WIRE
15	2.5mm FLAT TERMINAL (M) WIRE
16	2.0mm FLAT TERMINAL (M) WIRE
17	1.2mm FLAT TERMINAL (M) WIRE
18	0.8mm FLAT TERMINAL (M) WIRE

ITEM	DESCRIPTION
19	1.5mm FLAT TERMINAL (F) WIRE
20	2.0mm FLAT TERMINAL (F) WIRE
21	3.5mm FLAT TERMINAL (F) WIRE
22	4.0mm FLAT TERMINAL (F) WIRE
23	ALLIGATOR CLIPS (RED)
24	ALLIGATOR CLIPS (BLACK)
25	LED STROBOSCOPE
26	1 TO 2 CONNECTOR
27	PROBE (RED)
28	PROBE (BLACK)
29	ACICULAR PROBE (RED)
30	ACICULAR PROBE (BLACK)
31	SRS CONNECTOR
32	5K POTENTIOMETER (VARIABLE RESISTOR)
33	1 TO 1 CONNECT WIRE (RED)
34	1 TO 1 CONNECT WIRE (BLACK)
35	BLOW CASE (INCLUDE FOAM)

