

1. SAFETY RULES

- This circuit tester is designed for indoor use at temperatures between 0°C to 40°C and altitudes up to 2,000m.
- To ensure that the Circuit tester is used safely, follow all safety and operating instructions in this operation manual. If the tester is not used as described in this operation manual, the safety features of this instrument might be impaired.
- Do not use the tester if the instrument looks damaged, or if you suspect that the tester is not operating properly.
- When using the instrument, keep your fingers on the metal barrel, between the plastic parts of the body.
- Make sure power is off before cutting, desoldering, or breaking the circuit wires. Small amounts of current can be dangerous.
- Do not use in circuits more than 28 VDC or with AC powered circuits.
- To avoid electrical shock, use CAUTION when working above 30V DC or 25V AC rms. Such voltages pose a shock hazard.
- To avoid electrical shock or damage to the circuit tester meter, do not exceed the input limits.

2. INTERNATIONAL SYMBOLS

- | | |
|------------------------------------|----------------------|
| ⚠ Important information see manual | ⚡ Dangerous Voltages |
| ~ AC | 🔊 Continuity |
| ⎓ DC | ⚡ Ground |
| | 🛡 Double Insulation |

3. TECHNICAL SPECIFICATIONS

3.1 General Specifications

Input Voltage:	3 to 28 VDC
Input Impedance	> 1MΩ
Indicators:	Buzzer, vibration and red LED
Voltage polarity:	Positive voltage detection (Probe: Positive, Metal Body: ground)
Probe:	Chrome plated steel
Body Materials:	Stainless Steel and Nylon 66
Power:	2x 1.5V Size "N" batteries type Duracell PC9100
Auto power:	Automatic power on/off operation
Battery life:	Approx. 2 year of normal usage
Dimension:	5.9 x 0.79 Inches (150 x 20.5 mm)
Weight:	2.29 Oz./65 g (Including battery)
Accessories:	User's Instructions, V-Groove probe tip protector and 2 x "N" size alkaline batteries

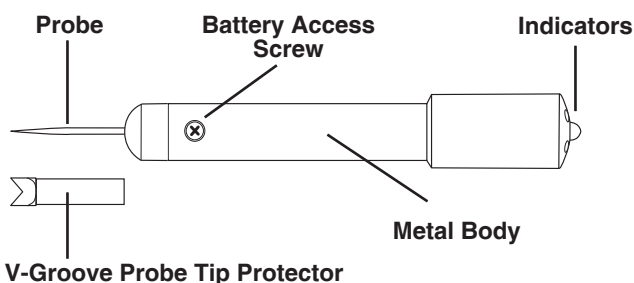
3.2 Electrical Specifications

- The input voltage should not exceed the indicated values. This is to prevent personal injuries and damage to the instrument.

Function Detection	Input Range	Indicators	Input Impedance
DC Voltage	3-28V	Buzzer, Vibration and red LED	>1MΩ (12uA @ 12 V input)

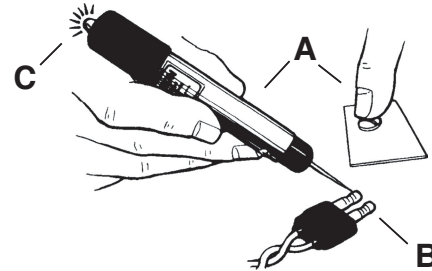
4. OPERATION

4.1 Instrument Description



4.2 Testing for voltage

- ⚠ CAUTION:** Maximum Input Voltage is 28VDC, do not exceed this rating to avoid personal injuries or damage to the instrument



- A - Hold tester by metal body and place free hand on a bare (grounded) metal part of the vehicle.
- B - Place tester point into connector or wire (pierce insulation if necessary).
- C - Tester will light, buzz and vibrate when a positive voltage is detected.

4.3 V-Groove Probe Tip Protector

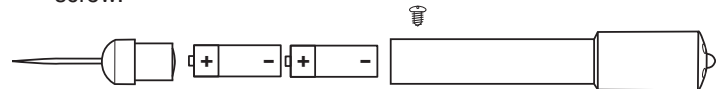
- To prevent injury always insert the V-Groove protector tip on the tester point before carrying or storing the unit.
- Use the V-groove protector tip when piercing wires to prevent the tester point from side-slipping on the wire and causing injuries or damage.
- The protector tip may be removed for testing in hard to reach places inside connectors, sockets, etc.

5. MAINTENANCE

5.1 Battery Replacement

The batteries supplied with the tester will provide years of service under normal use. When the sound and light start to fade,

- Remove the screw and pull out the plastic pointer assembly.
- Extract the batteries and insert new ones "type Duracell MN9100" or equivalent, observing the polarity (negative side goes in first).
- Insert tester point assembly aligning the holes and replace the screw.



5.2 Cleaning

Periodically wipe the case with a soft damp cloth and mild household cleanser. Do not use abrasives or solvents. Ensure that no water gets inside the instrument to prevent possible shorts and damage.

6. WARRANTY

One year limited warranty, excluding batteries. For details see Standard Warranty Information in our webpage or you may request a printed copy.

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