

7803

LASER[®]

Two Pole Voltage Tester

12-600v

Instructions



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Introduction

Easy to use 2-pole voltage tester. Used to prove absence and/or presence of voltage on hybrid and battery electric vehicles, or on any other electric system using DC or AC between 12 - 600V, where presence of voltage needs to be determined. LED display. CAT III. CE/GS certified. No batteries required, LEDs powered from source. Always perform self-test on known voltage source before use.

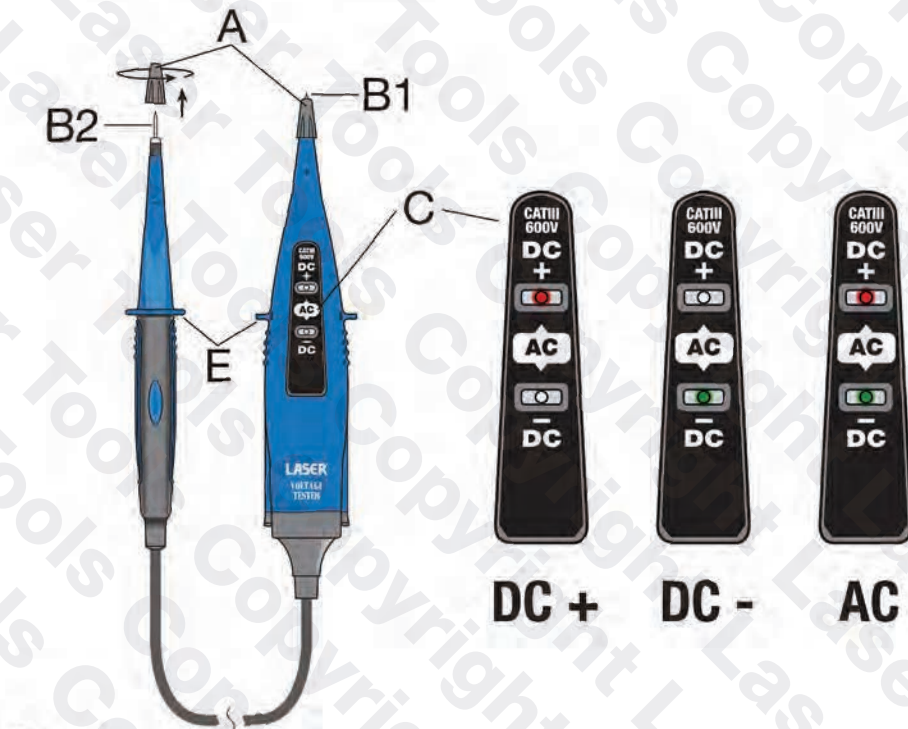


Fig 1

Instructions

Operation:

- Refer to **Figure 1**: Leave the probe safety caps (**A**) in place during normal use. If necessary, the safety caps can be removed to reveal a longer probe (**B**) if, for example, the terminals or components are shrouded or difficult to access.
- Probes: **B1** is positive and **B2** is negative (ground). **Always perform a self-test on a known voltage source before use** to ensure that the tester is functioning correctly (ie, 12V vehicle battery).

Instructions



- Always refer to manufacturer's documentation for testing and diagnostic procedures.
- When working on hybrid and battery electric vehicles check for voltage on wiring connectors and components by connecting probe **B2** to earth / ground / chassis and probe **B1** to the connector or component being checked: **RED** LED indicates **positive direct** current.
- Similarly, check for voltage between connectors or components by using the two probes:
- **RED LED** indicates **positive** direct current.
- **GREEN LED** indicates **negative** direct current.
- Both **RED** and **GREEN** LEDs illuminated together indicates **alternating** current (AC).

Instructions

Example of Process:



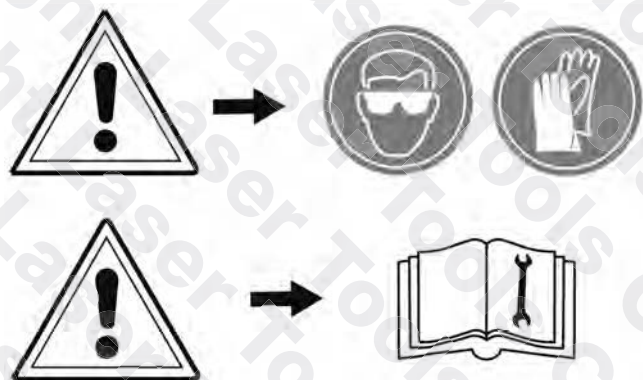
Fig 2

Refer to **Figure 2**: Once the circuit or component has been disconnected, leave for the shut-down time specified by the manufacturer, then check for voltage between:

- A + B
- A + C
- A + D (ground)
- B + C
- B + D
- C + D

Instructions

Precautions:



- Always refer to these instructions before use and always refer to manufacturer's documentation for testing and diagnostic procedures.
- When using the tester, please observe all normal safety precautions concerning protection against the dangers of electrical current.
- **Always perform a self-test on a known voltage source before use** to ensure that the tester is functioning correctly (ie, 12V vehicle battery).
- Keep hands and fingers behind the barriers (E in Figure 1) during testing.
- Never apply voltage or current to the tester that exceeds the specified maximum as shown in the specification tables below.
- **Do not connect the tester to the voltage source for more than 60 seconds.**
- After maximum operation (for example, measuring 600V AC/DC for 60 seconds), the tester must be rested for 60 seconds.
- Do not use the test leads if they are damaged or the insulation or wires are bared in any way.
- Do not disassemble the tester for any reason; the tester must only be checked by qualified service personnel.

Instructions

- Do not use the tester in a potentially explosive atmosphere or where flammable gases or material are present.
- If they have been removed, always refit the test probe safety caps when finished with tester.
- Observe standard workshop safety procedures when using the tester.
- Do not let the tester get wet or use in damp or wet conditions.
- Keep the tester clean (use a damp cloth with pH-neutral detergent) and store in a dry place with no extremes of temperature and humidity.
- Dispose of device according to relevant local authority guidelines.

Specifications:

Direct current voltage range:	12-600V
Alternating current voltage range:	12-600V
Voltage indication:	LED (refer to Operation section above.)
Polarity indication:	LED
Frequency range:	50-60Hz
Maximum permissible operating time:	60 seconds
Minimum recovery time:	60 seconds
Ingress protection rating:	IP66
Operating temperature range:	-10°C - +55°C
CAT category:	CAT III 600V

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7803_Instructions_V3

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