GENERAL®

MULTI-VOLTAGE LINE TESTER

USER'S MANUAL

CT103

Please read this manual carefully and thoroughly before using this product.

KEY FEATURES

- Different visual indications of eight common voltages—four AC and four DC
- UL approved
- Double-insulated housing and leads; safe for CAT II 600V use
- Self-storing leads
- Pocket clip on back

SAFETY INSTRUCTIONS

To avoid possible electric shock or personal injury, and to avoid damaging the tester or the equipment being tested:

- Do not use the CT103 in any way not detailed in this manual or the tester's safety features may be compromised.
- Never use the tester to detect the presence of voltages higher than 500V (AC or DC).

- The CT103 cannot detect the presence of voltages below 110V. Use caution whenever detecting AC voltages above 42VAC_{RMS} or DC voltages above 60VDC. Both pose a shock hazard.
- Before using the tester, inspect the case. Do not use the CT103 if the case is damaged. Look for cracks or missing plastic. Pay particular attention to the insulation around the connectors.
- Do not operate the tester around explosive gas, vapor, or dust.
- When using the probes, keep your fingers behind the finger guards. Never touch the metal ends of the probes when making a measurement.

OPERATING INSTRUCTIONS

To detect the presence of AC or DC voltage and identify its level, insert the test leads into an electric outlet (see Fig. 1 on the bottom of the next page) or carefully touch the leads to two points of an energized circuit.

- If 110V is present, the bottom neon bulb on the tester will glow.
- If 220V is present, the bottom two bulbs will glow.
- If 277V is present, the bottom three bulbs will glow.
- If 460V is present, all four bulbs will glow.

Each bulb has two filaments. If only one filament glows, the voltage is DC. If both filaments glow (making the bulb appear brighter), the voltage is AC.

To detect voltage at a two-wire AC outlet, insert either test lead into the narrow “hot” slot and touch the other lead to the metal mounting screw (see Fig. 2).

To determine which slot of a three-wire AC outlet is “hot”, insert one lead into the lower (ground) slot and the other lead into both upper slots in turn (see Fig. 3). The bulb will glow when the lead is in the “hot” slot.

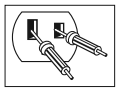

Fig.1

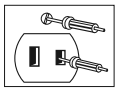

Fig.2

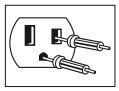

Fig.3

SPECIFICATIONS

Working Voltages: 110V, 220V, 277V and 460V (AC or DC)

Maximum Current: 0.3A @ 50/60Hz

Safety Rating: CAT II 600V

Lead Thickness: 20 AWG

Operating Temperature: 41° to 104°F (5° to 40°C) @ <80%RH

Weight: 2.6 oz. (74g)

WARRANTY INFORMATION

General Tools & Instruments' (General's) CT103 Multi-Voltage Line Tester is warranted to the original purchaser to be free from defects in material and workmanship for a period of one year. Subject to certain restrictions, General will repair or replace this instrument if, after examination, the company determines it to be defective in material or workmanship. The warranty period begins on the date of purchase. You are encouraged to register your product

online. General will extend your warranty an additional 60 days if you register at www.generaltools.com/ProductRegistry.

This warranty does not apply to damages that General determines to be from an attempted repair by non-authorized personnel or misuse, alterations, normal wear and tear, or accidental damage. The defective unit must be returned to General Tools & Instruments or to a General-authorized service center, freight prepaid and insured.

Acceptance of the exclusive repair and replacement remedies described herein is a condition of the contract for purchase of this product. In no event shall General be liable for any incidental, special, consequential or punitive damages, or for any cost, attorneys' fees, expenses, or losses alleged to be a consequence of any damage due to failure of, or defect in any product including, but not limited to, any claims for loss of profits.

Register now at www.generaltools.com/ProductRegistry to receive a 60-day extension to your warranty.

RETURN FOR REPAIR POLICY

Every effort has been made to provide you with a reliable product of superior quality. However, in the event your instrument requires repair, please contact our Customer Service to obtain an RGA (Return Goods Authorization) number before forwarding the unit via prepaid freight to the attention of our Service Center at this address:

General Tools & Instruments
80 White Street
New York, NY 10013
212-431-6100

Remember to include a copy of your proof of purchase, your return address, and your phone number and/or e-mail address.

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