MULTIMETER

INSTRUCTION MANUAL

WARNING: READ AND UNDERSTAND THIS MANUAL BEFORE USING GE MULTIMETER. FAILURE TO UNDERSTAND AND COMPLY WITH WARNINGS AND OPERATING INSTRUCTIONS CAN RESULT IN SERIOUS OR FATAL INJURIES AND/OR PROPERTY DAMAGE.

CAUTION:

This meter must be used with test probes No. TP004 supplied with the meter.

WARNING: THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE INSTRUCTION MANUAL UNLESS YOU ARE QUALIFIED TO DO SO.

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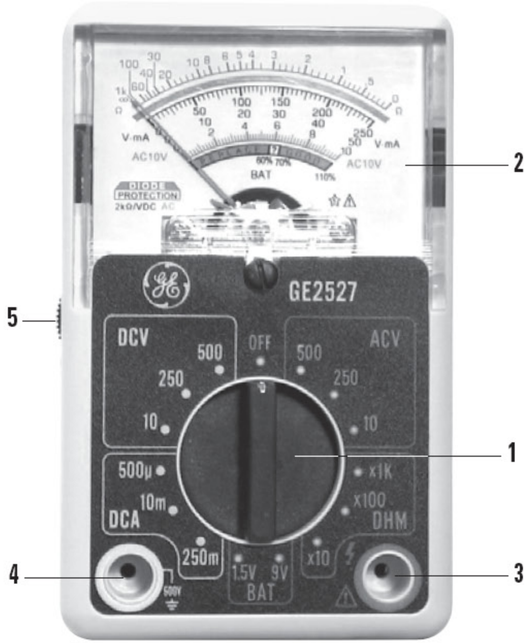

Before operating your multimeter, become familiar with each control. A clear understanding of how your multimeter works will help to avoid mistakes and minimize measurement errors, instrument damage and the possibility of injury.

The following section describes the functions of your multimeter (see illustration).

1. **Function/Range Switch** - rotary control located in the center of your multimeter, used to select the function, as well as the desired range.
2. **Display** - color-coded pointer scales with mirrored back. Includes: OHM (Ω), AC/DC, AC 10V and battery testing scales.
3. **Positive Jack** - plug-in connection for red (positive) test lead.
4. **Negative Jack** - plug-in connection for black (negative) test lead.
5. **Zero Ω Adjustment Switch** - Stabilizes the pointer to "0" when making Ω measurements.

SPECIFICATIONS:

Function	Range	Accuracy	Sensitivity
DC V	10 V / 250 V / 500 V	± (4% of full scale)	2 KΩ/V
AC V	10 V / 250 V / 500 V	± (5% of full scale)	2 KΩ/V
DC A	500 uA / 10 mA / 250 mA	± (4% of full scale)	
Ω	x1K/x100/x10 (1 meg max)		

Battery Test: 1.5 V cell 115 mA load current
9.0 V cell 7.5 mA load current

Power: 1 x 1.5 V "AAA" cell battery
Fuse: 0.5 A 250 V type 5ø x 20 mm
Dimensions: 105 mm x 64 mm x 35 mm

INSTALLING AND REPLACING BATTERY AND FUSE

CAUTION: Before attempting to install or replace battery, disconnect test leads from active circuits to avoid electrical shocks.

To install and replace battery, loosen the screw on the meter back and remove it, exposing the battery compartment. Install or replace one 1.5 V "AAA" cell battery and reattach the back securely.

To replace a fuse, remove the back cover, exposing the burnt-out fuse. Replace old fuse with a 0.5 A 250 V type 5ø x 20 mm fuse. Reattach back cover securely.

OPERATING INSTRUCTIONS

The GE Multimeter is designed for hobby enthusiasts and home technicians. Equipped with 6 functions and 14 ranges, each test position is easily selected by turning the Function/Range switch. For accurate readings, keep your multimeter laying flat on a non-metallic surface and look at the scale from the point of view where the pointer and its reflection on the mirror come together. For best results, use a range selection in which the dial pointer is in the upper 1/3 of the multimeter scale. Before testing, ensure that the dial pointer rests directly over the "0" at the left side of the scale. Use the screw in the lower center of the multimeter face to bring the dial pointer to "0." To avoid battery drain, set Function/Range switch to "OFF" when not in use.

WARNING: To avoid electrical shock and/or damage to your multimeter, do not measure voltage that exceeds 500 DC V or 500 AC V peak above earth ground. Before using your multimeter, inspect leads, connectors and prods for cracks or breaks.

DC VOLTAGE MEASUREMENT (DC V)

1. Connect the red test lead to the "positive" jack and the black test lead to the "negative" jack.
2. Set the Function/Range switch to the desired DC V position. If the magnitude of value is unknown, set the Function/Range switch to the highest range and reduce until desired reading is obtained.

3. Touch the test prods to the circuit or device being measured, and read the voltage value on the black AC/DC voltage scale.

DC CURRENT MEASUREMENT (DC A)

1. Connect the red test lead to the "positive" jack and the black test lead to the "negative" jack.
2. Set the Function/Range switch to the 250 mA DC A position.
3. Remove power from the circuit being measured and then open up the circuit at the point where you wish to measure the current.
4. Touch the black test prod to the "negative" side of the circuit and the red test prod to the "positive" side of the circuit.
5. Apply power to the circuit being measured, and read the current on the black mA scale.

AC VOLTAGE MEASUREMENT (AC V)

1. Connect the red test lead to the "positive" jack and the black test lead to the "negative" jack.
2. Set the Function/Range switch to the desired AC V position.
3. Touch the test prods to the circuit or device being measured, and read the voltage value on the black AC/DC voltage scale. If you are operating on the 10 V AC range, read the voltage on the red 10 V AC scale.

RESISTANCE MEASUREMENTS (Ω)

1. Connect the red test lead to the "positive" jack and the black test lead to the "negative" jack.
2. Set the Function/Range switch to the x 10 Ω position. To ensure the dial pointer is set to "0" on the top OHM (green) scale, touch the test prods together and use the zero Ω ADJ switch until the pointer stabilizes at "0".
3. If the resistance being measured is connected to a circuit, turn the power off and discharge all capacitors before attaching the test prods.
4. Touch the test prods across the circuit being measured, and read the resistance value on the green OHM scale. Multiply the reading by 1000, 100 or 10, depending on the range you are using.

BATTERY TEST

1. Connect the red test lead to the "positive" jack and the black test lead to the "negative" jack.
2. Set the Function/Range switch to the type of battery to be tested.
3. Touch the red test prod to the (+) terminal of the battery and the black test prod to the (–) terminal and read the result on the BAT scale. If the pointer is in the red "replace" zone, the battery needs to be replaced. If the pointer is in the green "good" zone, the battery is charged. If the pointer is in the white zone, the battery power is low and should be replaced.