

# TRACEABLE<sup>®</sup> BATTERY TESTER INSTRUCTIONS

The Traceable<sup>®</sup> Battery Tester is a rugged compact, reliable, and easy-to-operate instrument. It is used to determine the condition of a battery. It tests a battery under actual operating load conditions. It is superior to voltmeters since they only provide misleading no-load values. A battery's performance capability can be determined accurately only when a representative load has been connected across the battery terminals. This battery tester provides a unique load for each different type of battery under test. It tests batteries for real-world usage under actual operating conditions.

- Gold-plated printed circuit board and silver plated switches provide for accuracy and long life
- Unit is self-powered and requires no internal battery
- Function selector switch provides 13 measuring positions
- Case is high-impact ABS plastic
- Size is 3½ x 2½ x 1 inches and weight is 3 ounces

## TEST PROCEDURE

1. Set the selector switch to the position for the specific type of battery under test. To avoid damaging the battery or the Traceable Battery Tester always set the selector switch prior to testing the battery.
2. Disconnect and remove the battery from the equipment in which it is used.
3. Place the negative terminal of the battery on the metal post probe located in the lower left corner of the unit near the (-) negative sign. (Note, the user may, if desired, remove the metal post probe with fingers or tweezers and replace it by plugging in the supplied black test probe.)
4. Plug the red probe test lead into the lower right corner receptacle near the (+) positive sign.
5. Place the metal tip of the red probe test lead on the positive terminal of the battery.
6. If the pointer on the readout is deflected to the left then the battery is being tested incorrectly (battery negative terminal is on positive test probe and positive battery terminal is on negative probe). Correct this by reversing the position. It is also possible that the battery has reversed its polarity.
7. Read the meter scale pointer position. There are two scales on the meter. The upper scale is used to test **all** batteries except hearing aid batteries. Do **not** keep the probes connected to the battery for a longer time than is needed to make a reading.
8. The reading on the upper scale indicates the following: Green—battery is in good condition; Red—battery needs to be replaced; White "?"—battery's condition is marginal; it may not perform correctly and should probably be replaced.
9. The reading on the lower scale is for use **only** with hearing aid batteries. When testing silver-oxide hearing aid batteries use the lower scale which says SILVER. When testing mercury hearing aid batteries use the lower scale, which says MERCURY.

Battery Type	Test Load Resistance (Ohms)	Test Load Current (Milliamps)	100% New Battery (Volts)	70% Suggested Replacement (Volts)
1.5 V Button	750	2.2	1.65	1.05
1.5 V "AAA"	75	22	1.65	1.05
1.5 V "AA"	36	46	1.65	1.05
1.5 V "C"	9.9	167	1.65	1.05
1.5 V "D"	4.9	333	1.65	1.05
3 V Lithium	2,870	1.15	3.3	2.1
12 V	60	220	13.2	8.4
9 V	495	20	9.9	6.3
6 V Lantern	14.2	460	6.6	4.2
4.0–4.5 V	900	5	4.5	2.86
2.7–3.0 V	600	5	3.0	1.91
1.6–1.7 V	1,417	1.2	1.7	1.08
1.35–1.40 V	280	5	1.4	1.05

## WARRANTY, SERVICE, OR RECALIBRATION

For warranty, service, or recalibration, contact:

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Control Company is ISO 9001 Quality-Certified by DNV and ISO 17025 accredited as a Calibration Laboratory by A2LA.