

# OWNER'S MANUAL

**Model: BT-250**  
**Digital Battery Tester**  
**For 12 Volt Batteries**



**Send Warranty Product  
Repairs To:**  
Customer Returns  
P.O. Box 280  
1025 E. Thompson Avenue  
Hoopeston, IL 60942-0280

**Questions? Call Customer Service**  
**1-800-621-5485**

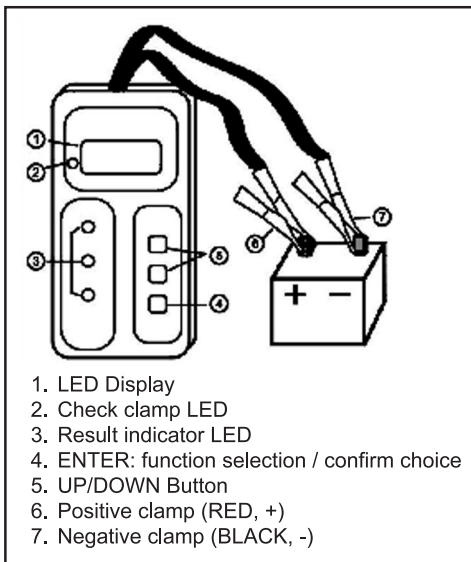
00-99-000439/1004

**WARNING:** Handling the cord on this product or cords associated with accessories sold with this product, will expose you to lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. ***Wash hands after handling.***

## TEST PROCEDURES / OPERATING INSTRUCTIONS

### IMPORTANT:

1. For testing 12 volt batteries Only
2. Suggested operational range 32°(0°C) to 122°(50°C) ambient air temperature.



## **WARNING**

1. Working in the vicinity of a lead acid battery is dangerous. Batteries generate explosive gases during normal battery operation. For this reason, it is of utmost importance that each time before using your tester, (if you have any doubts) you read these instructions very carefully.
2. To reduce the risk of battery explosion, follow these instructions and those published by the battery manufacturer and manufacturer of any equipment you intend to use in the vicinity of the battery. Observe precautionary markings on these items.
3. Do not expose the tester to rain, snow or other forms of moisture.

## **PERSONAL SAFETY PRECAUTIONS**



1. Someone should be within range of your voice or close enough to come to your aid when you work near a lead acid battery.
2. Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing or eyes.
3. Wear safety glasses and protective clothing.
4. If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with cool running water for at least ten minutes and get medical attention immediately.
5. NEVER smoke or allow a spark or flame in vicinity of battery or engine.
6. Be extra cautious to reduce risk of dropping a metal tool on to the battery. It could spark or short-circuit the battery or other electrical parts and could cause an explosion.
7. Remove personal metal items such as rings, bracelets, necklaces and watches when working with a lead acid battery. It can produce a short circuit current high enough to weld a ring or similar item to metal causing a severe burn.

## PREPARING TO TEST:

1. Be sure the area around the battery being tested is well ventilated before performing any test.
2. Clean battery terminals. Be careful to keep corrosion from coming in contact with eyes.
3. Inspect the battery for cracked or broken case or cover. If the battery is damaged, do not use the tester.
4. If the battery is not sealed (i.e. Maintenance Free), add distilled water in each cell until battery fluid reaches level specified by the battery manufacturer. This helps purge excessive gas from cells. Do not overfill.
5. If it is necessary to remove the battery from the vehicle to test, always remove grounding cable from battery first. Make sure all accessories in the vehicle are off to ensure this will not cause any arcing.

## OPERATION & USE

### BATTERY TEST: BT-250 (12 Volt Batteries Only)

1. Before you test a battery in a vehicle, turn off the ignition, all accessories and loads. Close all the vehicle doors and the trunk lid.
2. Make sure you have put a 9V battery into the battery chamber. If the 9V battery runs out of power, screen will show "lbtL" (internal battery low). Replace this 9V battery before beginning the test. 
3. Make sure the battery terminals are clean. Wire brush them if necessary. Clamp the black test lead to the vehicle's negative battery terminal. Clamp the red test lead to the vehicle's positive battery terminal. Tester display will illuminate when a 9V battery is installed and both clamps connect to the correct battery terminals.
4. You will view the following screens. If you wish to test the battery rating of ENc2 or DIN, you need to press ▲/▼ key to select the desired rating standard. 

5. Pressing "ENTER" will move to the next step.
6. Press the ▲/▼ Key to input the battery capacity of CCA:
 

SET	→	500
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 SAE: 200–1200, ENC2: 180–1280, DIN: 110–770  
 Press "ENTER" to begin the test.
7. Test the battery for 5–7 seconds.
 

CAL
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8. When the test is complete, The display shows the actual volts and the actual CCA. (Compared to the CCA selected in step 6). One of five results will be displayed:

**PASS: (Green light)**

The battery is good & capable of holding a charge.

xx.xx	SAE	PASS
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**PASS & RECHARGE: (Green & Yellow lights)**

The battery is good but needs to be charged.

xx.xx	SAE	PASS	CHAR
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**RECHARGE & RETEST: (Yellow & Red lights)**

Battery is discharged. The battery condition cannot be accurately determined until it is fully charged. Recharge & retest the battery.

xx.xx	SAE	PASS	TEST
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**FAIL: (Red light)**

The battery will not hold a charge. It should be replaced immediately.

xx.xx	SAE	FAIL
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**BAD CELL: (Red light)**

The battery has at least one cell short circuit .It should be replaced immediately.

xx.xx	SAE	BAD	CELL
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## LOAD ERROR:

The tested battery is larger than 1200CCA or 120AH.

**ERR** Or the clamps are not connected properly.

9. Press "ENTER" return to step 4 or remove the test clamps from the battery posts after completion of testing.

*\* The operator is asked if any accessories are left on as a possible cause. If accessories are left on, the operator is instructed to charge and retest the battery. If accessories are not left on, the operator is instructed to replace the battery, since the charging system is working and a good battery should have accepted a charge.*

## NOTES

## LIMITED WARRANTY

SCHUMACHER ELECTRIC CORPORATION, 801 BUSINESS CENTER DRIVE, MOUNT PROSPECT, ILLINOIS 60056-2179 MAKES THIS LIMITED WARRANTY TO THE ORIGINAL PURCHASER AT RETAIL OF THIS PRODUCT. THIS LIMITED WARRANTY IS NOT TRANSFERABLE.

Schumacher Electric Corporation warrants this battery tester for one year from date of purchase at retail against defective material or workmanship. If such should occur, the unit will be repaired or replaced at the option of the manufacturer. It is the obligation of the purchaser to forward the unit together with the original sales receipt, transportation and/or mailing charges prepaid to the manufacturer or its authorized representative.

This limited warranty is void if the product is misused, subjected to careless handling, or repaired by anyone other than the manufacturer or its authorized representative.

The manufacturer makes no warranty other than this limited warranty and expressly excludes any implied warranty including any warranty for consequential damages.

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