

### Limited Warranty

This tester is warranted to be free of defects in materials and workmanship for a period of one (1) year from date of purchase. PulseTech will repair or replace unit with a remanufactured unit. This limited warranty applies only to the battery tester, and does not cover any other equipment, static damage, water damage, overvoltage damage, dropping unit, or damage resulting from extraneous causes including owner misuse. PulseTech is not liable for any direct, special indirect, incidental, consequential, punitive or exemplary damages of any kind for breach of this warranty. The warranty is void if owner attempts to disassemble the unit, or to modify the cable assembly.

To obtain warranty service, purchaser should contact PulseTech Products Corporation for a Return Authorization number. Then return the unit with proof of purchase showing date purchased to PulseTech Products Corporation, Attn: Service Department. Battery testers beyond the warranty period are subject to the repair charges in effect at that time. Optional remanufacturing service is available to return the tester to "like-new" condition.




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09/06



**475**  
DIGITAL BATTERY ANALYZER

For testing 6 & 12-volt batteries  
rated from 100 to 1400 CCA

**INSTRUCTION  
MANUAL**

The background of the advertisement features a grayscale image of a hand holding the PulseTech 475 Digital Battery Analyzer. The device is a handheld unit with a digital display and several indicator lights. A red and black test lead is connected to the device. The overall design is clean and professional, with a red border around the device image and a red banner at the bottom containing the text 'INSTRUCTION MANUAL'.

### WARNING

Because of the possibility of personal injury, always use extreme caution when working with batteries.

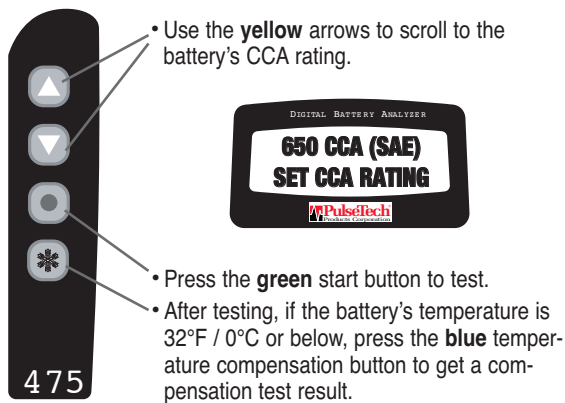
### Prior To Testing

- Clean battery posts or side terminals with a wire brush.
- For group 31 or side-post batteries, install & tighten lead terminal stud adapters (included). **Failure to install stud adapters, or using stud adapters that are dirty or worn may result in false test results.**
- If testing in the vehicle, make sure all vehicle accessory loads are off & the ignition is in the “off” position. Read **Testing In The Vehicle** section before testing.

### Connecting The Tester


- Connect red clamp to positive terminal.
- Connect black clamp to negative terminal.
- To ensure a proper connection, rock the clamps back and forth. The tester requires both sides of the clamp to be firmly connected prior to testing. A poor connection will prevent testing & a **CHECK CONNECTION** message will appear. If this occurs, clean the terminals & reconnect.

### Testing Procedure



- Use the **yellow** arrows to scroll to the battery's CCA rating.
- Press the **green** start button to test.
- After testing, if the battery's temperature is 32°F / 0°C or below, press the **blue** temperature compensation button to get a compensation test result.

### Test Results



**Voltage** — 12.64V  
**Battery Condition** — 650 CCA  
**Available Power** — GOOD BATTERY

- GOOD BATTERY** = Fully charged. Return to service.
- GOOD-RECHARGE** = Charge battery & return to service.
- PULSE CHG / RETEST** = Pulse battery using a PulseTech product, then fully charge battery & retest. **Failure to fully charge the battery before retesting may cause false readings.**
- REPLACE BATTERY** = Replace battery.
- BAD CELL-REPLACE** = Replace battery.

### Testing In The Vehicle

- Turn on the highbeam headlights for one minute to remove the battery's surface charge, then wait at least one minute to allow the voltage to recover before starting the test.
- A **REPLACE** reading may be the result of a poor connection or corrosion between the vehicle's battery cables & the battery. Retest the battery after disconnecting the cables before replacing.
- If the **SYSTEM NOISE** message appears, make sure all vehicle accessory loads are off & the ignition switch is in the “off” position. Retest.

If the **SYSTEM NOISE** message continues after several retest attempts, disconnect the battery cables & retest.

### Troubleshooting

#### If display does not illuminate:

- Check connection to the battery.
- Battery may be too low to power the tester (below 5.5 volts). Fully charge the battery & retest.

#### If the tester displays **SYSTEM NOISE** message when the battery is not connected to the vehicle:

- You may be testing too close to a source of noise (charger or other high-current device). If so, move away & retest.
- If no source is identified, fully charge the battery & retest. If message appears after charging, replace the battery.