



O P E R A T I N G I N S T R U C T I O N S

C1600 BATTERY LOAD TESTER

INTRODUCTION:

The C1600 is designed for high volume testing of 6 and 12 volt starting lead acid batteries.

IMPORTANT: DO NOT USE THIS TESTER UNTIL YOU HAVE READ ALL THE INSTRUCTIONS.

▲ CAUTION: Always wear protective eye shields and clothing when working with batteries. Batteries contain acids which can cause bodily harm. Do not put wrenches or other metal objects across the battery terminal or battery top. Arcing or explosion of the battery can result. Do not wear jewelry when working around batteries. Arcing can cause severe burns.

Do not operate this tester if it shows any signs of physical damage.

Provide adequate ventilation for the batteries and tester. Do not obstruct the flow of cooling air around the tester. **Provide at least 10" of space around tester.** Do not allow clothing, blankets or other material to cover the tester. Certain parts of the tester will become hot when testing large volumes of batteries.

DO NOT USE THIS TESTER IF:

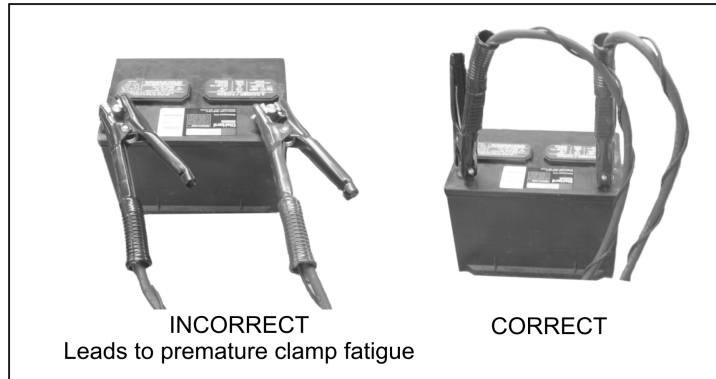
The DC output clamps, or connector is loose, worn or does not make good contact; The leads are cut or have exposed wires; The DC output leads or connector/clamps feel hot when used, or if one or both fans do not come on when clamps are connected to battery.

NORMAL OPERATION:

6 & 12 VOLT BATTERIES

NOTE: Only load test batteries at or above 75% state of charge.

- 1). Thoroughly clean post's with a wire brush. This is important for volt meter accuracy. Observing polarity, connect clamps to battery per illustration. Both fans should come on, if they don't, have them replaced by a qualified person.



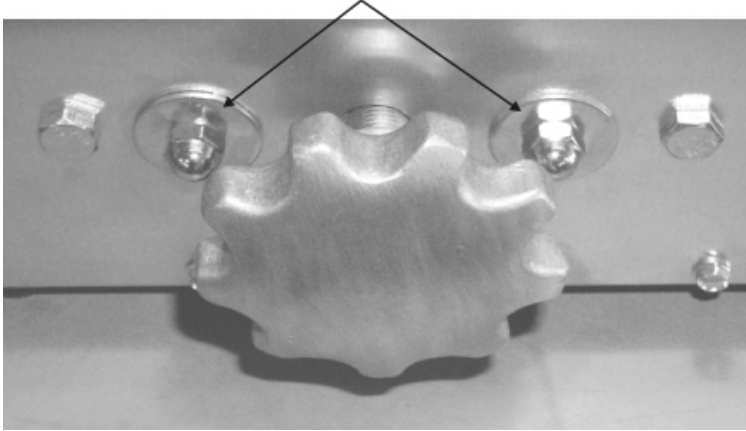
- 2). Press the START button.
- 3). Adjust the knob to match the CCA of the battery.
- 4). For 12 volt batteries the minimum voltage drop is 9.6 volts @ 70F (21C). For 6 volt batteries the minimum is 4.8 volts @ 70F (21C)
- 5). When the timer times out, remove clamps and connect another battery. Repeat.
- 6). The C1600 is equipped with a timer override button. Should you need to interrupt a test, simply push the button. *Timer is factory set at 15 seconds. To adjust, use a miniature screwdriver, locate 1/4" hole in back, insert screwdriver and turn potentiometer to desired time. 5-15 seconds.*

CARE & MAINTENANCE:

- 1). Heat is the enemy of your tester. To prolong component life; When testing large volumes of batteries, leave tester connected to last battery for a minimum of 5 minutes to allow fans to exhaust residual heat from cabinet. When using a setting higher than 500CCA, allow 30 second cooling off period between batteries.
- 2). The aluminum cabinet is susceptible to acid fume corrosion, and staining as are all surfaces, periodically wipe the unit down with a damp cloth. Use water only. Take care to keep electrolyte off the unit as it will cause rapid deterioration, **especially the volt meter lens.**
- 3). Keep the clamp jaws clean with a wire brush. High resistance connections can give a low volt reading, and cause cracking and popping and intermittent connections under load.
- 3). Periodically remove load screw and flush with silicon lubricant spray to remove grit and assure smooth operation.

IMPORTANT:

These two nuts, and the two on the back of case are an integral part of the carbon pile mechanism. They must be kept snug but not tight.



TROUBLE SHOOTING:

Voltmeter does not work, or reads low.

Sense lead to clamps broken. Weak corroded clamps, or dirty battery post's can cause a resistance and make the meter read low. Clean clamp jaws, and post's with a wire brush.

Solenoid drops out prematurely, or cannot pack a load.

Check clamp condition, weak clamps will not hold, or defective solenoid.

Times out too soon.

Check timer setting.

Analog ammeter accuracy Keep meter calibrated to 1/8" -0 when at rest.

**QUICK CHARGE C1600 LOAD TESTER
"LIMITED WARRANTY"**

Quick Charge corporation warrants the C1600 load tester for (1) year from the date of purchase.

After the warranty period, chargers returned to the factory for repair will be charged a minimum rate of \$25.00. Charger will be returned, freight and repair charges, C.O.D. unless other arrangements have been made

This warranty covers all defects in manufacture and performance, provided the unit is operated in compliance with manufacture's operating instructions.

For repairs to be made at the Quick Charge factory, a charger and/or component(s) should be sent, freight prepaid to Quick Charge at:

Quick Charge Corp.
1032 S.W. 22nd St.
Oklahoma City, OK. 73109

Quick Charge, will at it's option, repair or replace the charger or component in question. The repaired item will then be returned, freight prepaid by Quick Charge. This warranty is void if the charger or component have been altered, changed, or repaired by anyone not authorized by Quick Charge, or if the charger or component, have been subjected to misuse, negligence, or harsh environmental conditions. (Except those chargers designed for such conditions)

If returning the charger to the factory is not practical, replacement parts may be shipped to the customer for field repair at no charge. On parts such as circuit boards, the customer will be required to return the board suspected to be defective to Quick Charge, freight prepaid. If such defective parts are not returned, the customer will be invoiced for the repair parts.

Field repairs are made at the user's own risk. "Authorization" by Quick Charge to repair refers to maintaining the warranty only. Quick Charge assumes no responsibility or liability for field servicing, and shall not be responsible for incurred travel or labor charges.

Quick Charge corporation shall not in any event be liable for the cost of any special, indirect or consequential damages to anyone, product or thing.

This warranty is in lieu of all other warranties expressed or implied. Quick Charge neither assumes nor authorizes any representative or other person to assume for us any liability in connection with the sale of this product.