BC-7000 OPERATION

 **NOTE:** Before capacity testing a battery, ***review all testing procedures as required by the battery manufacturer***. Failure to do so can result in inaccurate test date.

 **NOTE:** Before capacity testing a battery, ***RECHARGE THE BATTERY FOLLOWING THE MANUFACTURERS RECHARGING GUIDELINES***.

 **NOTE:** ***Before putting the BC-7000 into service the REAL TIME clock must be set.*** See instruction in the ***BC Report Utility*** section. Failure to do so will result in incorrect printed time on test reports.

1. Make sure the power switch is in the ***OFF*** position. Connect the AC power cord female end into the power receptacle located in the left rear side of the BC-7000. Connect the male end of the power cord into the AC power outlet. Now connect the ***gray*** BC-7000 battery connector to the battery to be tested.

 **DANGER:** Never attempt to connect the BC-7000 capacity tester to a battery using anything but the proper connector. ***Doing so can damage the tester, battery, or cause injury to the operator***. Capacity testing data will be invalid if incorrect connections are made.

2. Place the ***OFF/ON*** power switch to the ***ON*** position. The BC-7000 LCD display will flash tester model and software version.

 **NOTE:** If ***Replace Clock Coin Battery*** is displayed on screen, remove case top and install new coin battery. Replacement battery number is 3V ***#CR2032***. Use ***BC Report Utility*** software to update date and time after

battery replacement. See ***BC Report Utility*** Software section for instructions.

3. First select which Mode? CAPACITY or DISCHARGE to 1 Volt. Use the **UP** or **DOWN** button to change you selection. DISCHARGE mode is used to discharge Nickel Cadmium batteries.

4. Push the **NEXT** button. Now select the battery voltage to be tested. Pressing the **DOWN** button will change battery testing voltage to 12 volts.

NOTE: If incorrect battery voltage is selected the BC-7000 display will inform the operator.

5. Push the **NEXT** button . Select the End Point Voltage (EPV) cutoff. The default EPV is 20 volts for 24 volt battery and 10 volts for a 12 volt battery. The BC-7000 allows for EPV adjustment from the default values. For a 24 volt battery the EPV can be lowered to 18 volts. For 12 volt batteries the EPV can be lowered to 9 volts. Check with your battery manufacturer for specified EPV points.

6. Push the **NEXT** button. Select the battery manufacturer C1 (one hour) battery discharge amperage rate. Press the **UP** or **DOWN** buttons. Pressing the **UP** button will increase the discharge amperage rate.

7. Press the **NEXT** button to display the start test menu.

8. To start the test, press the **NEXT** button again. If you wish to stop the test before the End Point Voltage (EPV) is reached, press the **NEXT** button and the BC-7000 will stop testing. ***If testing is stopped before EPV is reached the battery must be recharged following the battery manufacturer's recharge procedures*** before retesting.

9. After pressing the **NEXT** button to start the test, the BC-7000 cooling fan motor will start and the LCD display will show the C1% reading, battery voltage, flash ***TESTING***, and test amperage. *Note: While the BC-7000 is testing or at the conclusion of the test, pressing the **UP** button will display the test run time in minutes. The LCD will display* **TM: 60.2'** *(The symbol ' indicates minutes)*

10. Upon reaching the EPV the BC-7000 test will stop. The cooling fan motor will stop and the audio warning beeper will beep. The display will show C1% battery capacity. Test amperage and Pass or Failed is displayed.

If the ***BC-7000 COOLING FAN MOTOR FAILS TO START*** press the ***NEXT*** button stopping the test. Place the ***OFF/ON*** switch to the ***OFF*** position and return the BC-7000 for service.

"Passing" is based upon a battery capacity of 85% or greater of its C1 rating.