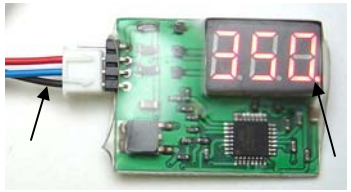
Testing Lithium Polymer Batteries

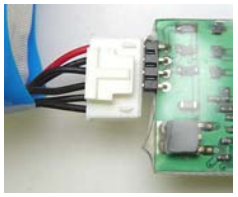
1. Locate the wire on the balancer connector that corresponds with the pack negative (-) lead. This is usually the black wire at the edge of the connector.
2. Plug the connector in to the pins on the side of the voltage display with the negative lead towards the bottom



3. The LED display should light up and display the voltage of the first cell. The decimal point (dot) on the display indicates which cell is being measured. The rightmost dot on the display indicates cell 1. The “350” shown on the display indicates 3.50 volts.
4. In a few seconds, the display will change to read the voltage of the second cell, and the middle dot on the display will light up (indicating cell 2).

5. On a 3-cell or larger pack, the display will change to read the voltage of the third cell and the left-most dot will light up (indicating cell 3). On a 2-cell pack, the display will read “no” instead of showing the voltage.

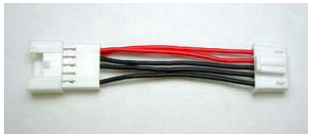
6. The sequence repeats continuously. Allow a few cycles for the voltage to stabilize.
7. To read higher-cell count packs, simply plug the monitor in as shown here with the positive-most lead in the top pin. The display will show the voltages of the top three cells of the pack. The picture shows a 5 cell pack plugged into the display reading cells 3, 4, and 5.



Testing 2 and 3 Cell Packs With PolyQuest Style Connectors

PolyQuest style balancer connectors have gaps in the connector between the pack negative (cell 1 -) and cell 1 positive (+). To measure the voltage of cell 1 you will need an adaptor that makes each wire contiguous with no gaps as shown here:

2 cell adapter



3 cell adapter

Testing NiCd/NiMH Batteries

1. To test a NiCd/NiMH receiver pack, plug it in as shown here. The display will indicate the total pack voltage – not the voltage of the individual cells. The display supports up to 10 cell NiCd/NiMH packs. Do not connect a larger pack than this.

Additional Notes

1. If the voltage shows over 4.5V, then the pack is not properly connected to the display, or the balancer connector is wired incorrectly.
2. Always disconnect your battery from the display when finished checking the voltage.