

Operation

Connection - The Balance Pro has positive (Red) and negative (Black) symbols marked clearly on the circuit board near the connection pins. Always attach the balance connector on the battery pack to the Balance Pro with the negative wire on the battery balance connector (typically the black one on the end) positioned closest to the negative sign on the Balance Pro circuit board, as shown in the example below.

You can attach the Balance Pro to your battery pack prior to charging. When you first plug the Balance Pro into your pack, all cells that are 3.2 volts or higher will have their corresponding LED lit for 5 seconds. Look at the cell voltage readings and determine whether slow charging (below .3 amps) is required (any cell is less than 3.2v). If all cells are at more than 3.2v, it is OK to charge at a "normal" charge rate of up to 1C.

If there is no imbalance (cells are within .05 volts of each other), proceed to charge at a "normal" charge rate of up to 1C. (Common Sense RC Lipos can be charged at a 2C rate).

If an imbalance condition exists, plug the Balance Pro back into your pack and let it perform its balancing function during charging. During balancing, the discharge LED(s) for the higher voltage cells will stay lit or cycle on and off, indicating that the Balance Pro is reducing the voltage of those cells. When the pack is balanced, all the discharge LEDs will be off and only once in a while will an LED light up.

To test packs with more than six cells, simply start at the negative port on the balancing plug, and once you have checked the first six cells with ports 1-7 on the balance connector, move the checker up the balance plug so that pin 1 (negative pin) on the checker is plugged into port 7 on the balance plug. Repeat as necessary, moving the checker up 6 pins each time.

When you're done checking voltages and balancing, be sure to disconnect the Balance Pro to prevent it from slowly discharging your pack.

