**Anderson Power Pole Tester By Paul Curry – K6PEC**

**Parts List** (cost per tester $2.25 with PP) or ($.75 without PP)

The parts and procedures for building this tester are detailed below:

* 1 Bi-polar / color LED (e.g. Radio Shack 276-012 Or Kingbright – WP57EGW Mouser Electronics Part Number 604-WP57EGW)
* 1 Resistor ¼W 1K Ohm (not critical, could be slightly less or more – )
* 2 15A Power Pole connector
* 1 Red and 1 Black Power Pole connector shells
* 1 Power Pole connector cover boot
* Sealant

**Assembly Details**

1. Cut approximately ⅝” off one end of the resistor and crimp this end into a 15A Power Pole connector. You may need to fold over the lead to add mass to the crimp.



2. Cut approximately ¼” off long lead of LED. Insert this lead into a 15A Power Pole connector. Keep in mind that this newly cut lead will be the shorter one after cutting it. You may need to fold over the lead to add mass to the crimp.



3. Assemble the red/black Power Pole connector shells as shown in the picture (ARES standard, blade down, red on right, viewed from the wire side of the connector).



4. Snap the resistor leaded Power Pole connector into the red Power Pole shell. You may want to use a small flat-blade screwdriver to assist in snapping the connector into place.

5. Similarly snap the LED leaded Power Pole connector into the black Power Pole shell.

6. Twist, solder and trim the resistor and LED leads together.   


7. Apply an adhesive / sealant to hold everything in place.



8. Trim approximately ¼” off the length of the large end of the plastic boot cover. Trim approximately ¼” off the length of the small end of the plastic boot cover. The boot cove is used to cover the connections and serve as a light duty mechanical protection for the connection and LED.

9. Then punch and trim a hole in the end of the red plastic cover boot for the LED to be inserted through.

10. Assemble the plastic cover boot over the LED to complete the assembly.



11. Now you can test it on a known good source of power and reverse the polarity of the power to check that red is illuminated and green for a correct polarity connection.

