Procedure to verify and/or correct the line input connections on the 8431 Wattmeter

This procedure provides instructions on how to verify and correct the line input of the 8431 Wattmeter. This only applies to units bought between August 2004 and January 2007 (inclusively).

To complete this procedure, the following items are required:
- Multimeter
- Cutters
- Soldering iron and solder

1-   Take the 8431 Wattmeter out of the Workstation (8110 or 8134) and verify the continuity between the line ground terminal (jack #2) and the load ground terminal (jack #4) on the front panel. (See Figure 1)
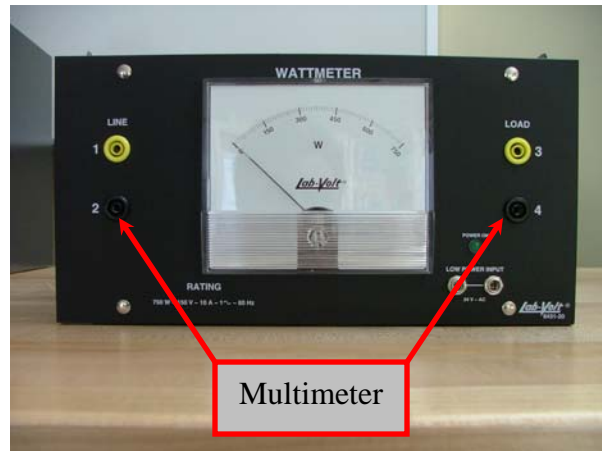

Figure 1 : Continuity verification

2-   If there is continuity between the line ground terminal (jack #2) and the load ground terminal (jack #4), you do not have to go further in this procedure. Otherwise, proceed to point # 3.

3-   Swap the line #1 and #2 terminal wires, to do so:

   a. Cut the wire, closest to the connector as possible, behind line #1 and #2 terminal jacks.
   b. Solder the wire that went to line #1 terminal jack to the line #2 terminal jack.
   c. Solder the wire that went to line #2 terminal jack to the line #1 terminal jack.

4-   You're done. If you have any questions or problems, please call *Lab-Volt*® Customer Services.