

815

CALIBRATION PROCEDURE

It is recommended that the MODEL 815 be calibrated once each year. Use the following procedure to calibrate the instrument.

Perform calibration at an ambient temperature of $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and a relative humidity of 75% or less.

Case Removal

1. Disconnect the test leads and turn the meter off. Remove the test leads from the front terminals.
2. Position the meter face down. Remove the three screws from the case bottom.
3. Lift the end of the case bottom until it gently unsnaps from the case top at the end nearest the LCD.
4. Lift the circuit board from the case top. Do not remove the screws from the circuit board. (It will also be required to simulate the power switch wiper by use of jumper from foil points labeled "A" & "B" at Figure 1 – earlier units only.)

DC Voltage Calibration

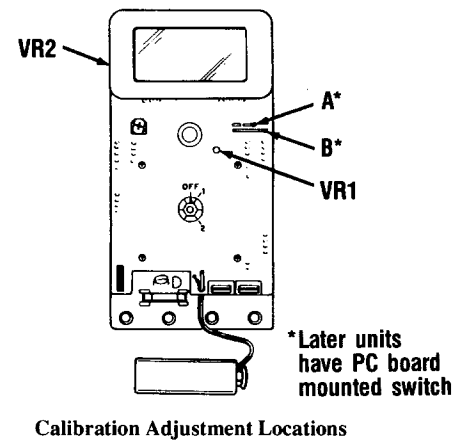
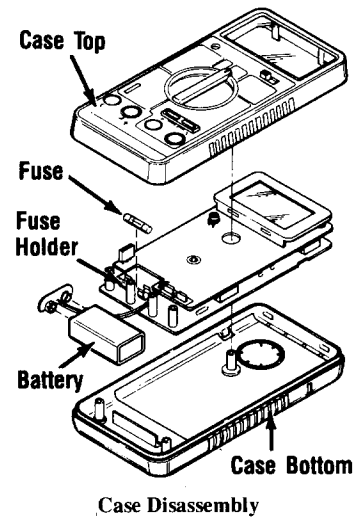
1. Set the circuit board rotary switch "arrow" to the circuit board "1" position.
2. Set the output of DC calibrator for 10.00 V and connect to batteries' input terminals "+" and "-".
3. Using a small flat-tipped screwdriver adjust the potentiometer VR_1 until the display reads 9.99 or 10.00.

Capacitance Calibration

1. Set the circuit board rotary switch "arrow" to the circuit board "2" position.
2. Connect a precision 19,00nF standard capacitor to the capacitance measuring socket. (0.05% tolerance or better recommended.)
3. Using a small flat-tipped screwdriver adjust the potentiometer VR_2 until the display reads 19.00 or 19.01.
4. Remove the standard capacitor.

Case Reassembly

1. Set the case top rotary switch and circuit board switch in the OFF position.
2. Replace the case top, make sure that the 3 "O" rings are properly seated and the battery leads do not become pinched between the case halves, and the two snaps on the case top are engaged. Reinstall the three screws.



SCHEMATIC DIAGRAM

