

# ACL 750 COMBO TESTER Calibration Instructions

The ACL-750 can be adjusted to various electrical resistance specifications (limits) depending on what test standard (EOS for US and CEEC for Europe) the user follows or what a company requires. To change settings, either open the ACL 750 meter and adjust the dip-switches to desired resistance value. Refer to "Dip Switch Settings" for a reference in the ACL 750 manual. The limits can also be changed on the computer

If desired to trace to NIST calibration, send to the ACL meter department in order to determine and trace accuracy. Remember the ACL 750 tester cannot be calibrated. The meters accuracy can only be checked. The meter has resistor and capacitor on the circuit board. Every time the tester is used it self calibrates against this 1% resistor!!

1. Purchase 1% resistors on each side of the resistance value that is set in the meter. Factory settings (in bold) require the following resistors.
  - a. Foot Low (**.75M**) 675k & 825k
  - b. Wrist Low (**.75M**) 675k & 825k
  - c. Foot High (**100M**) 90 & 110M
  - d. Wrist High (**10M**) - 9M & 11M
  
2. Solder, clip or twist wires to both ends of the resistors.
  - a. Attach one end of the resistor to the stainless steel "Press and Hold" button on the front of the meter using an alligator clip.
  
  - b. Attach the other end of the resistor to the receptacle that is being tested using the appropriate plug attachment: banana plug or stereo plug for wrist, stereo plug for testing footplate. When the feet are checked both the right and left leg of the circuit must have a load on the wire. If not the unloaded leg will buzz. To accomplish this, a stereo plug with two pigtail wires must be used. Each of these two wires must have a resistance load on one end. The other end must be attached to the power press switch.

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3. To Begin test:
  - a. If this calibration check is conducted manually, position toggle switch to Wrist setting when testing the wrist limits or the Foot setting when testing the foot limits. Remember when testing feet a stereo plug is inserted into the jack that usually has the foot plate plug inserted. The other end has the resistor attached.
  - b. When testing wrist limits, plug resistor in wrist strap plug-in. When testing foot limits, insert two resistors in the plug-in jack usually used for the foot plate.
  - c. If this calibration check is conducted with the meter connected to a computer test station, the toggle setting is irrelevant. However, the software should default for both wrist & foot straps to be required.
4. Press the power button and compare to the resistance range to be calibrated.
5. Release the power button and compare the pass or fail response to limits being tested. If attached to the computer, the CRT will display values on the screen.
6. Since the meter is self calibrating and self zoning there is no adjustment necessary.

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## DIP SWITCH SETTINGS

The following resistance alarm values may be set inside the combo meter.  
The factory settings are represented in **bold**.

<u>Foot Low</u>	<u>sw1</u>	
.5M	off	
<b>.75M</b>	<b>ON</b>	(US & IEC default)

<u>Wrist Low</u>	<u>sw2</u>	
.5M	off	
<b>.75M</b>	<b>ON</b>	(US & IEC default)

<u>Foot High</u>	<u>sw3</u>	<u>sw4</u>	<u>sw5</u>	
2M	off	off	off	
5M	ON	off	off	
10M	off	ON	off	
25M	ON	ON	off	
35M	off	off	ON	(IEC & CECC default)
50M	ON	off	ON	
75M	off	ON	ON	
<b>100M</b>	<b>ON</b>	<b>ON</b>	<b>ON</b>	(US default)

<u>Wrist High</u>	<u>sw6</u>	<u>sw7</u>	<u>sw8</u>	
2M	off	off	off	
5M	ON	off	off	
<b>10M</b>	<b>off</b>	<b>ON</b>	<b>off</b>	(US default)
25M	ON	ON	off	
35M	off	off	ON	(IEC & CECC default)
50M	ON	off	ON	
75M	off	ON	ON	
100M	ON	ON	ON	