POWER SUPPLY AND FUSE REPLACEMENT

This instrument has three main fuses (plus one or two spares). One, which protects the AC input, is located in the rear-panel power entry module, as described in the “Rear Panel Controls” section of this manual. If the power appears to have failed, check the AC fuse first.

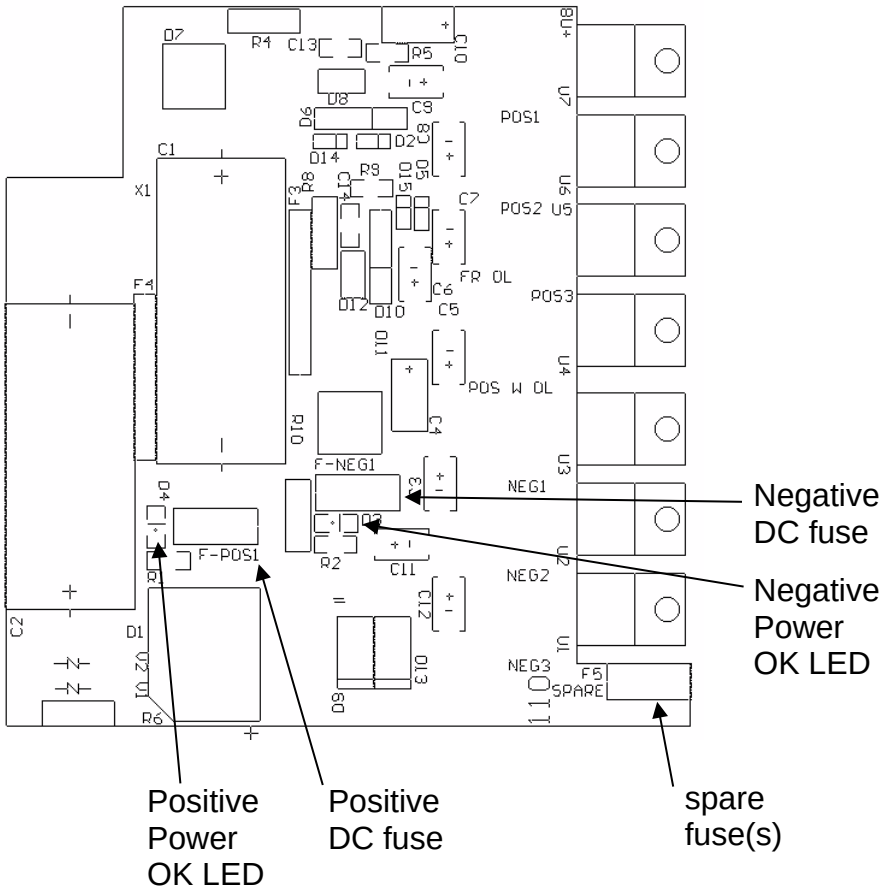
The AV-151B-C units were originally shipped with 0.5A AC fuses. To change this fuse to 1A, follow this procedure:

1. Disconnect the power cord from the rear-panel.

2. Slide the clear plastic cover on the rear-panel power entry module so that the AC fuse is exposed. Pull the lever to remove the 0.5A fuse. Insert the new 1A fuse.

3. Reconnect the power cord, and test the unit.

The other two fuses (plus one or two spares) are located on the internal DC power supply, as shown below:



The AV-151B-C units were originally shipped with 1A positive DC and spare fuses. To change these fuses to 1.5A, follow this procedure:

1. Turn off the instrument.

2. Remove the top cover, by removing the four Phillips screws on the top cover and then sliding the cover back and off.

3. Locate the positive DC fuse and the spare fuse on the power supply circuit board, as illustrated above.

4. Use needle-nose pliers to remove the existing 1A fuses from the surface-mount holders. Insert the new 1.5A fuses. (Leave the negative DC fuse unchanged.)

5. Re-install the lid, and test the unit.

Replacing Blown Fuses

In the future, if you suspect that the DC fuses are blown, follow this procedure:

1. Remove the top cover, by removing the four Phillips screws on the top cover and then sliding the cover back and off.

2. Locate the two “Power OK” LEDs on the power supply circuit board, as illustrated above.

3. Turn on the instrument.

4. Observe the “Power OK” LEDs. If the fuses are not blown, the two LEDs will be lit (bright red). If one of the LEDs is not lit, the fuse next to it has blown.

5. Turn off the instrument.

6. If a fuse is blown, use needle-nose pliers to remove the blown fuse from its surface-mount holder.

7. Replace the fuse.

The positive fuse and one of the spare fuses on this circuit board should be 1.5A slow-blow fuses, Littlefuse part number R45201.5. (This fuse can be ordered from Digikey, www.digikey.com. The Digikey part number is F1344CT-ND). The negative fuse is a 0.5A slow-blow fuse (Littlefuse R452.500, Digikey part number F1341CT-ND).