

CRR-20104, LM-8 Power Supply Notes and modifications - W4NPN

Early LM units have an AC voltmeter on the power supply front panel. In later models, this was later replaced with a pilot light.

In my LM-8, the large coil inside the AC voltmeter failed, rendering the meter (M-201) useless.

The meter was replaced with a similar-looking one which has a 0-500 MA scale.

The MA meter is converted to a DC Voltmeter by connecting a 10 megohm resistor from its positive terminal to the B+ terminal of electrolytic capacitor C-202, and the negative terminal of the meter is connected to ground.

This circuit allows the meter to act as a voltmeter. The LM-8 power supply produces about 300 volts, which is read on the meter's scale.

NOTE: SET THE LM-8 POWER SUPPLY TO USE "COMP 2" AS THE AC SOURCE, SINCE THE MODERN MAINS VOLTAGE OF 120 – 122 VAC IS TOO HIGH FOR THIS DEVICE.

COMP2 PUTS ABOUT 111 VOLTS AC ON THE LM-8 POWER TRANSFORMER, WHICH IS A VERY SAFE VOLTAGE, SINCE THE UNIT WAS DESIGNED TO OPERATE ON AS LOW AS 110 VOLTS.