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Connect a voltmeter across R30. Set this meter to its highest DC voltage range. This meter reads the B+ voltage. It may be useful to label it B+. During All subsequent tests leave this meter in place. Use this meter to check for presence of B+ voltage, but do not rely on it as the only means to verify that a board is safe to touch.

Connect another voltmeter across R7. Set this meter to its highest DC voltage range. This meter reads the B- voltage. It may be useful to label it B-.

Put another voltmeter across the filament supply for the output tubes. This is usually easiest at the tube socket itself. It may be useful to label it Filament.

Power the board up with no tubes in it. Verify that the filament voltages are correct. Then check the negative voltage supply. The B+ voltage may be slightly negative at this point. This is normal. Power OFF the board. The negative voltage should decrease to a low value within a minute or so.

Next, put in a rectifier tube. Power up the board. After the rectifier tube warms up you should have B+. Power OFF the board. You will need to measure the voltages at various points on the board in the following steps. If you only have 3 meters, leave one on the B+ voltage and use the other 2 for the individual tests. The meter on B+ is a quick indicator of circuit health.

Put a meter from the grid of the output tubes to ground. One meter for each tube. Power up the board. Each meter should read a negative voltage. With ONE HAND BEHIND YOUR BACK carefully adjust one of the bias pots (R12 or R23). The negative voltage for the corresponding output tube should change. Set it to the most negative voltage, and then adjust the bias pot for the other channel. Set them both to the most negative voltage.

Power OFF the board. Do NOT touch the board for 5 minutes after the power is disconnected.

Next, put in the 5842's. Put a meter from the plate of each 5842 to ground. The plate is easiest to access by clipping the positive meter lead on to the coupling cap lead closest to the 5842. The cathode pots should adjust the plate voltage on the 5842's. Set them to about 175 volts (not critical). The