

Problem: Inadequate path efficiency between the terminals of the 47000 mfd filter capacitor and the printed circuit board can result in arcing and destruction of the foil at the capacitor mounting points.

Solution: Invert the capacitor and hard wire it to the regulator board.

PARTS LIST

1 5 1/2" red wire w/lug
1 5 1/2" black wire w/lug
1 3 1/2" black wire
4 #6 lock washers
1 insulation strip

TOOLS REQUIRED

#2 phillips screw driver
flat screw driver
soldering iron
full coffee mug

PROCEED AS FOLLOWS;

1. Unplug AC power cord and DC cable.
2. Remove four phillips screws on each side of the power supply and remove top cover by lifting back edge and sliding to the rear.
3. Remove 3/8" nut and bolt holding the bridge rectifier to the bottom chassis.
4. Remove the 11/32" nut only, that secures the "C" clamp capacitor bracket to the top of the transformer.
5. Remove the four #6 phillips screws that hold the regulator board to the chassis.
6. With the supply facing you, turn it on the left side and remove the two small hex-head (or phillips) screws on the right rear edge on the bottom chassis.
7. Turn supply on the right side. Raise the edge of the regulator board about 2" and remove the two large screws that hold the 47,000 mfd filter capacitor to the board. You are now ready to start re-assembling the power supply.
8. Bolt the circuit board to the chassis per step #5. Add the four lock washers supplied.
9. Replace screws and bolts removed in steps #3 and #6.
10. Install the 3 1/2" black lead, supplied, between the

11. Mount the 47,000 mfd capacitor in the original position but with the terminals up. Secure it to the transformer with the "C" clamp and with the positive terminal to the rear of the board. Hold the capacitor down against the board when you tighten the "C" clamp. (See note 1, below)

12. Assemble the solder lug end of the 5 1/2" red lead to the positive terminal of the filter capacitor. Solder the other end to the positive side (rear) of the bridge rectifier.

13. (OMITTED, hi)

14. Assemble the solder lug end of the 5 1/2" black lead to the negative terminal of the capacitor and solder the other end (with step #10 wire) to the negative side of the bridge rectifier.

15. "Peal and stick" the insulation strip, supplied, over the positive terminal of the filter capacitor.

16. Replace top cover.

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Note 1. For whatever the reason, the terminal screws supplied with the 47,000 mfd capacitor vary in length. Check to make sure that the screws tighten against the solder lugs before they bottom out. If they are too long, use shorter screws. Do not use washers as the clearance between the terminals and the cabinet may be inadequate.

REGULATOR BOARD

