

597-1003

FM-100C POWER SUPPLY REPLACEMENT

1-1. INTRODUCTION.

1-2. This instruction sheet presents the procedure to remove the RF amplifier assembly and replace the power supply.

1-3. POWER SUPPLY REMOVAL PROCEDURE.

1-4. The power supply is located in the RF amplifier assembly. Removal of the RF amplifier assembly is required to replace the power supply. To remove the power supply, refer to Figure 1 and proceed as follows:

1-5. Remove the RF amplifier assembly as follows:



WARNING ***DISCONNECT THE PRIMARY POWER FROM THE TRANSMITTER BEFORE PROCEEDING.***
WARNING

- A. Disconnect the primary power from the transmitter.
- B. Remove the transmitter top-cover and disconnect J15 from P15 of the RF amplifier power/control cable.
- C. Disconnect 4-Pin connector J21 from P21 on the power supply/control circuit board.
- D. Disconnect 4-Pin connector J25 from P25 located near the rear-panel.
- E. Disconnect BNC connector P18 from J18 on the rear of the RF amplifier assembly.
- F. Disconnect BNC connector P17 from J17 on the front of the RF amplifier assembly.
- G. Remove the four screws from the side of the chassis which secure the RF amplifier assembly to the unit.
- H. Remove the RF amplifier assembly from the transmitter chassis.

1-6. Remove the power supply as follows:

- A. Remove the three screws which secure the power supply to the RF amplifier assembly. Discard the three mounting screws.
- B. Remove the power supply unit from the RF amplifier assembly.

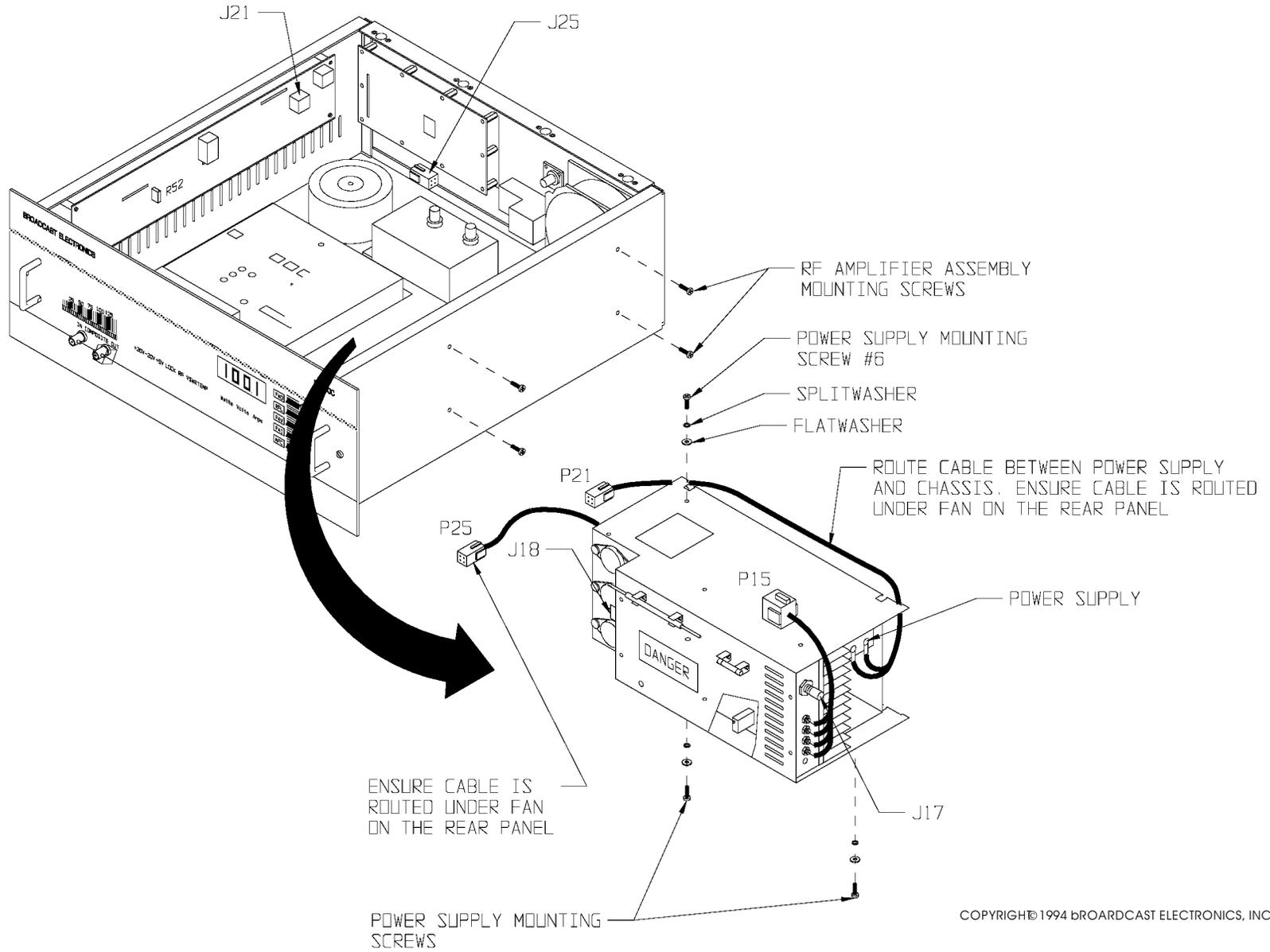
1-7. POWER SUPPLY INSTALLATION PROCEDURE.

1-8. To install the new power supply and the RF amplifier assembly in the transmitter, refer to Figure 1 and proceed as follows:



WARNING ***ENSURE ALL PRIMARY POWER IS DISCONNECTED BEFORE PROCEEDING.***
WARNING

- A. Ensure all primary power is disconnected before proceeding.
- B. Insert the new power supply in the power supply location.
- C. Secure the power supply in the assembly using the No. 6 screws, flat washers, and split lock washers as shown.
- D. Re-Install the RF amplifier assembly by performing the RF amplifier removal procedure in reverse order. Route the cable connected to P21 between the power supply and the transmitter chassis as shown. Ensure the P21 and P25 cables are routed under the fan on the rear panel.



COPYRIGHT © 1994 BROADCAST ELECTRONICS, INC.

597-1003-1

FIGURE 1. POWER SUPPLY INSTALLATION