

User's Guide

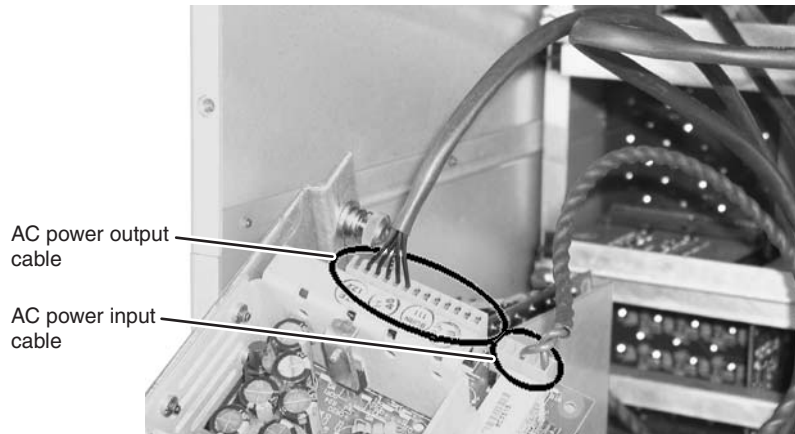
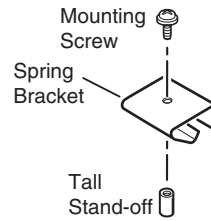


Figure 3 — Power supply connections

7. Connect the AC input cable to the power supply (figure 2).
8. Install the spring bracket into the tall stand-off identified in step 4.
9. Press the power supply's notched edge into the spring bracket at the selected installation location.
10. Using the tall stand-off as a pivot point, swivel the power supply into position until the captive screw connector engages the short stand-off.
11. Hand tighten the captive screw connector.
12. Connect the DC output cable (the cable connected in step 5) to either unused power connector on the main board (the board on the floor of the switcher).

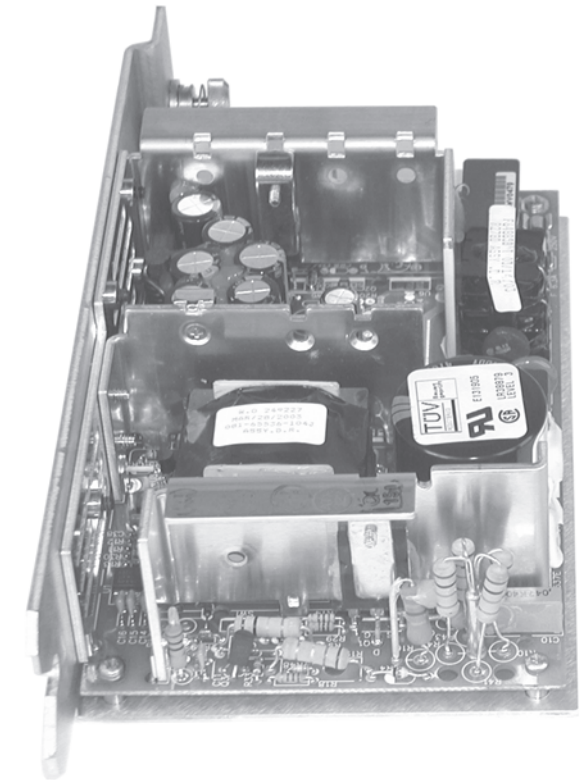


NOTE Use an already-installed power supply as an example to orient the connector correctly.

13. Route cable out of the way and secure it with tie wraps.
14. Reinstall any cables and reinstall the front panel door. Reconnect power to the matrix switcher.

Part Numbers

5 V power supply kit for 7U BME	70-083-01
5 V power supply kit for 5U BME	70-083-02
12 V power supply kit for audio BME	70-084-01



Matrix 3200/6400 Power Supply

Redundant Matrix Switcher Power Supply

Installation

Each Matrix 3200 and Matrix 6400 basic module enclosure (BME) can be equipped with hot redundant power supplies. The BME automatically switches over from the primary supply to the hot redundant supply in the case of a failure, ensuring high system reliability.

When you upgrade a switcher to add redundant power supplies, you will need to install two redundant power supply kits.

There are two different BME sizes:

- **5U BME** — All Matrix 3200 BMEs and Matrix 6400 audio BME
- **7U BME** — Matrix 6400 Wideband and video BMEs

Included parts

- Power supply
- Spring bracket and mounting bolt
- 12" power supply cable
- Tie wraps (3)
- 18" power supply cable

NOTE Installation of a power supply kit requires only one power supply cable. Use the shorter cable if possible.

Installation

Install a redundant power supply as follows:

1. Disconnect power to the matrix switcher.
2. Loosen the front panel door and carefully lower it.

NOTE If the BME is equipped with an FPC 1000 front panel controller, there is a communication cable connected between the front panel door and the interior of the BME. Take care not to damage the cable.

3. If desired, disconnect the communication cable and remove the front panel door and set it aside.
4. Choose one of two possible redundant power supply installation locations inside the BME. Figure 1 shows the tall stand-offs that mark the installation locations on the floor of a 5U BME. Figure 2 shows redundant power supplies installed on the sidewall of a 7U BME.

NOTE Figure 2 shows the complete front panel removed (not just the front panel door) in order to show the power supply locations only. For your installation, you only need to remove the front panel door.

5. Choose the power supply cable that reaches from the installation location to the main power board. Connect the cable's wide end to the power supply (figure 3, rear page).

NOTE Use the shortest supplied cable possible.

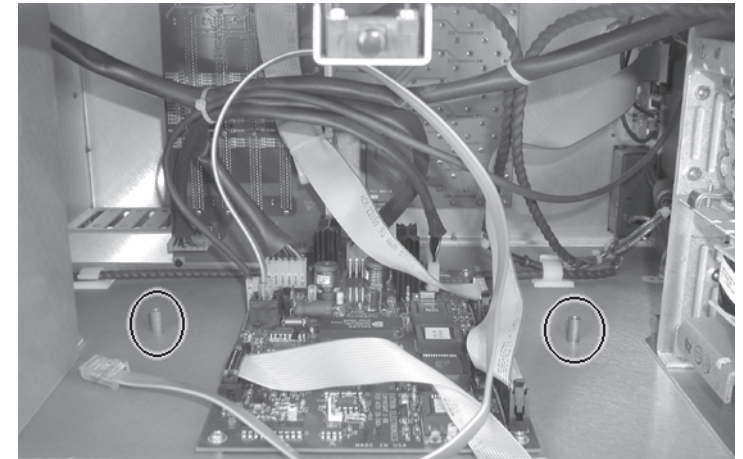


Figure 1 — Redundant power supply locations (circled), 5U cabinet

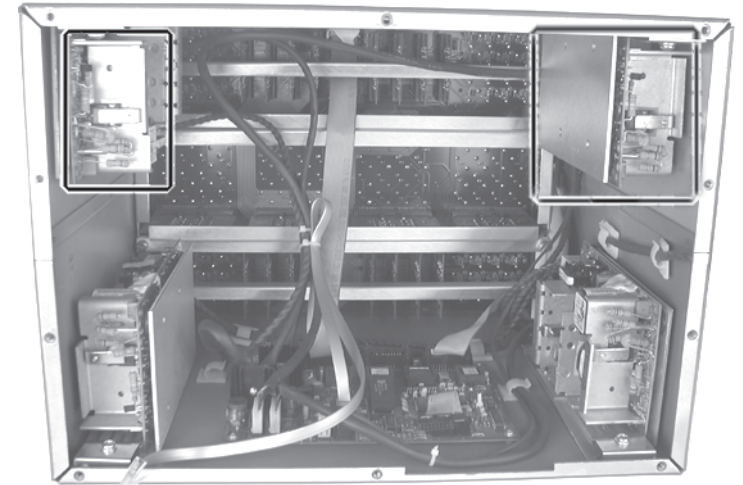


Figure 2 — Redundant power supply locations (highlighted), 7U cabinet

NOTE The AC input cable for each primary power supply is prefabricated with a second connector for the redundant power supply. The secondary power supply connector is wrapped in heat-shrink and tie wrapped out of the way.

6. Cut the tie wraps that secure the redundant power supply connector on the AC input cable out of the way and remove the heat shrink that protects the connector.