Technical Bulletin #: TM-C1-0142B

Date Issued: May 1, 1996

Audience: Customers with VCO/80 DC Systems Dual Power Feed Option

Product(s) Affected: VCO/80

Purpose of Bulletin

To provide the instructions customers need to install protective shielding on the Dual Power Feed Option unit, and a shield for the back of the terminal block on the rear of the power distribution module.

CAUTION: Power must be turned off at the source! Unplug the power cord or turn the breaker off at the circuit panel supply source power to the product. If you have any questions, please Summa Four Technical Support at 1-800-9SUMMA4.

Required Tools

You will need the following tools:
- Philips screwdriver
- Slotted screwdriver
- 7/16" nut driver

Procedure

1. Make certain that source power to the system is disconnected.

2. To gain access to the interior of the VCO/80 system, you must remove the protective panel on the back of the system. This panel is located above the power distribution module (the unit that contains the on/off switch). It is held in place with four screws per side. Refer to Figure 1 for location.

3. Remove the protective plastic shield that covers the terminal lugs which connect the power supply cord. The shield has two screws that attach it to the power distribution module. Refer to Figure 2.

4. To make it easier to work on the module, remove the EMI bar that runs across the top of the power distribution module. There are two screws on each side (Figure 1).

5. Remove the four screws, two per side, from the power distribution module. Save the screws to re-install the module when the process is complete (Figure 1). Once the screws are removed, pull the module out away from the cabinet. **NOTE:** Interior connecting cables will prevent you from pulling the power distribution module out completely.

6. Refer to Figure 3, "Interior View Power Distribution Module." To install the internal power lug shield to the back of the terminal block on the power distribution module, remove the two screws that hold the plate in place. The cover has a u-shaped slot at the top, and a hole at the bottom. Slip the cover into place with the cable cutout facing toward the center of the power distribution module. Replace the two screws with two #6-32 x 5/8 screws and two #6 flat washers. Tighten both. The power lug shield is to protect service personnel from the possibility of electric shock.

7. Remove the two screws that attach the dual power feed unit to the dual power feed option. These screws are located on top of the power distribution module. In an expansion cabinet equipped with the dual power feed option, the screws are on the back side of the module and must also be removed to install the enclosure. Refer to Figure 4. See Figure 5 for expansion cabinet configuration.

8. Place the large enclosure over the dual power feed unit and re-attach with the two long screws and flat washers provided in the kit. Bundle the wires together so they are not pinched, and fit them into the slot of the side cover as you place the side cover onto the enclosure. Attach the side cover with the two small screws provided in the kit (Figure 4).

9. Replace the power distribution module into its former location and re-attach it with the four screws you removed earlier. Replace the EMI bar and then the outside covers (Figure 1).

10. Place the CAUTION label supplied with the kit on the upper left corner of the air-intake enclosure. Refer to Figure 1.

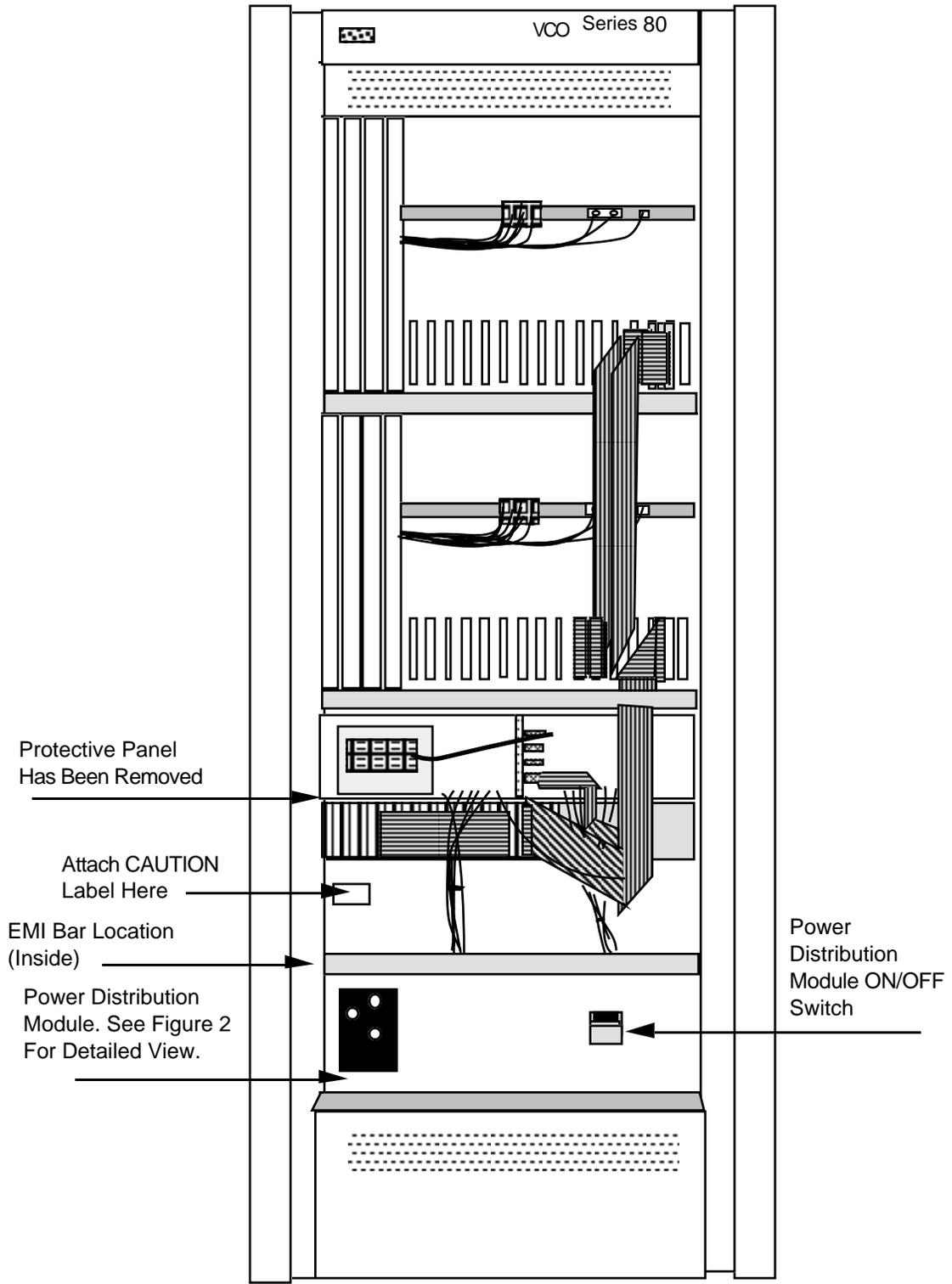If you have any questions, please call Summa Four Technical Support at 1-800-9SUMMA4.

Protective Panel
Has Been Removed

Attach CAUTION
Label Here

EMI Bar Location
(Inside)

Power Distribution
Module. See Figure 2
For Detailed View.

VCO Series 80

Power
Distribution
Module ON/OFF
Switch

Figure 1: Rear View of VCO/80 System

Dual Power Feed
Enclosure

Front View of Power Lugs

Power Switch in
OFF Position

R1

R2

G1/2

L2

L1

Plastic shield covering
lugs has been removed.

Figure 2: Front View of Power Distribution Box
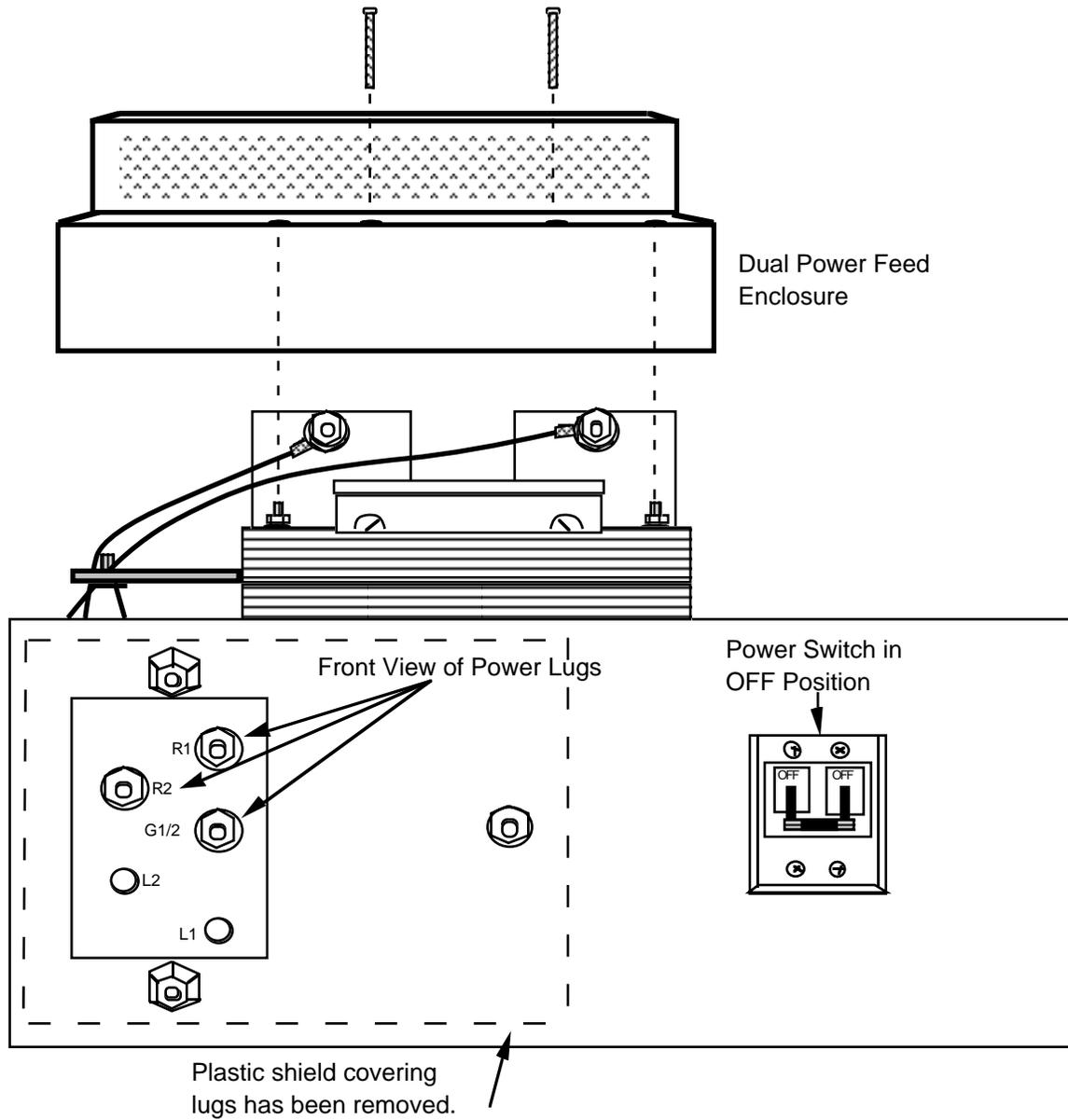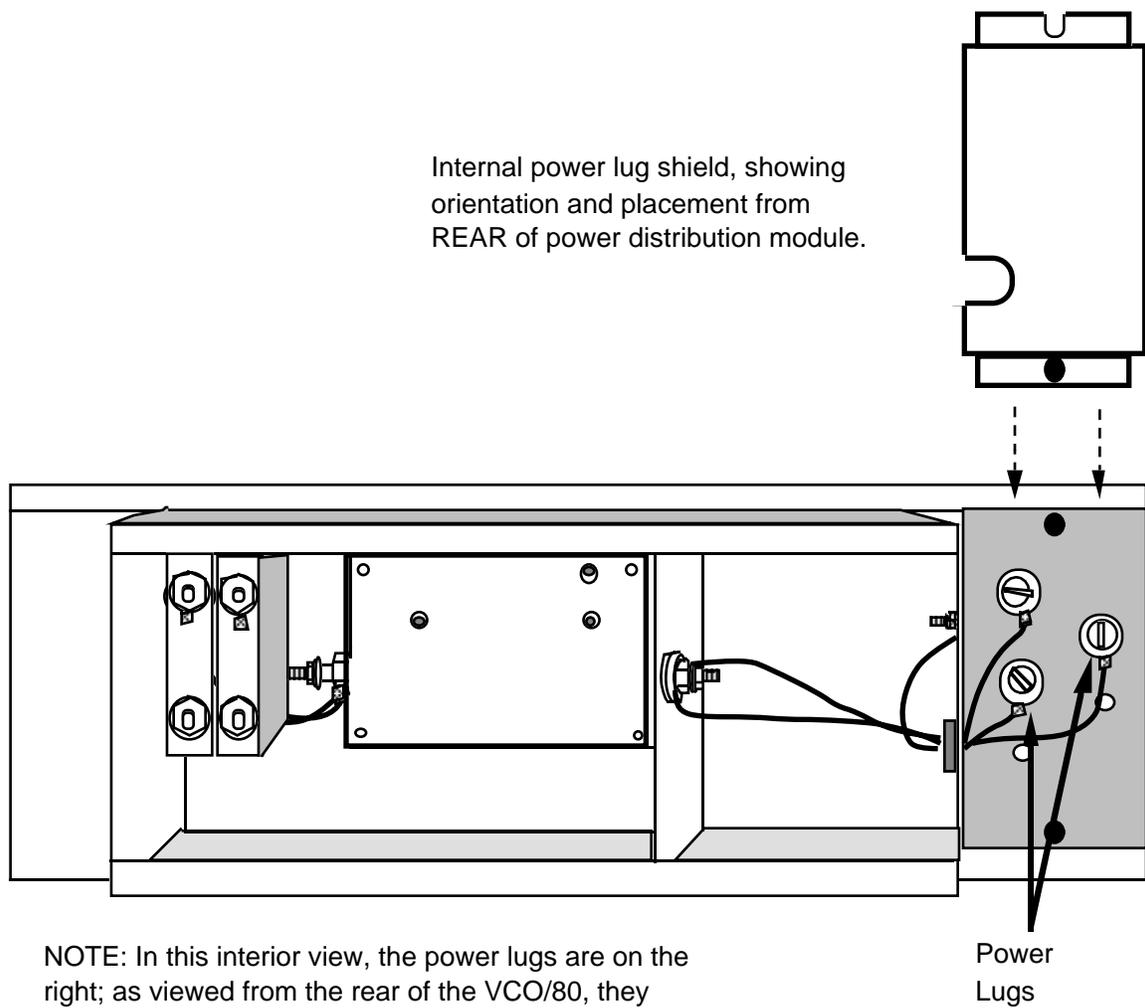
Internal power lug shield, showing
orientation and placement from
REAR of power distribution module.

NOTE: In this interior view, the power lugs are on the
right; as viewed from the rear of the VCO/80, they
are located on the left. Refer to Figure 2.

Power
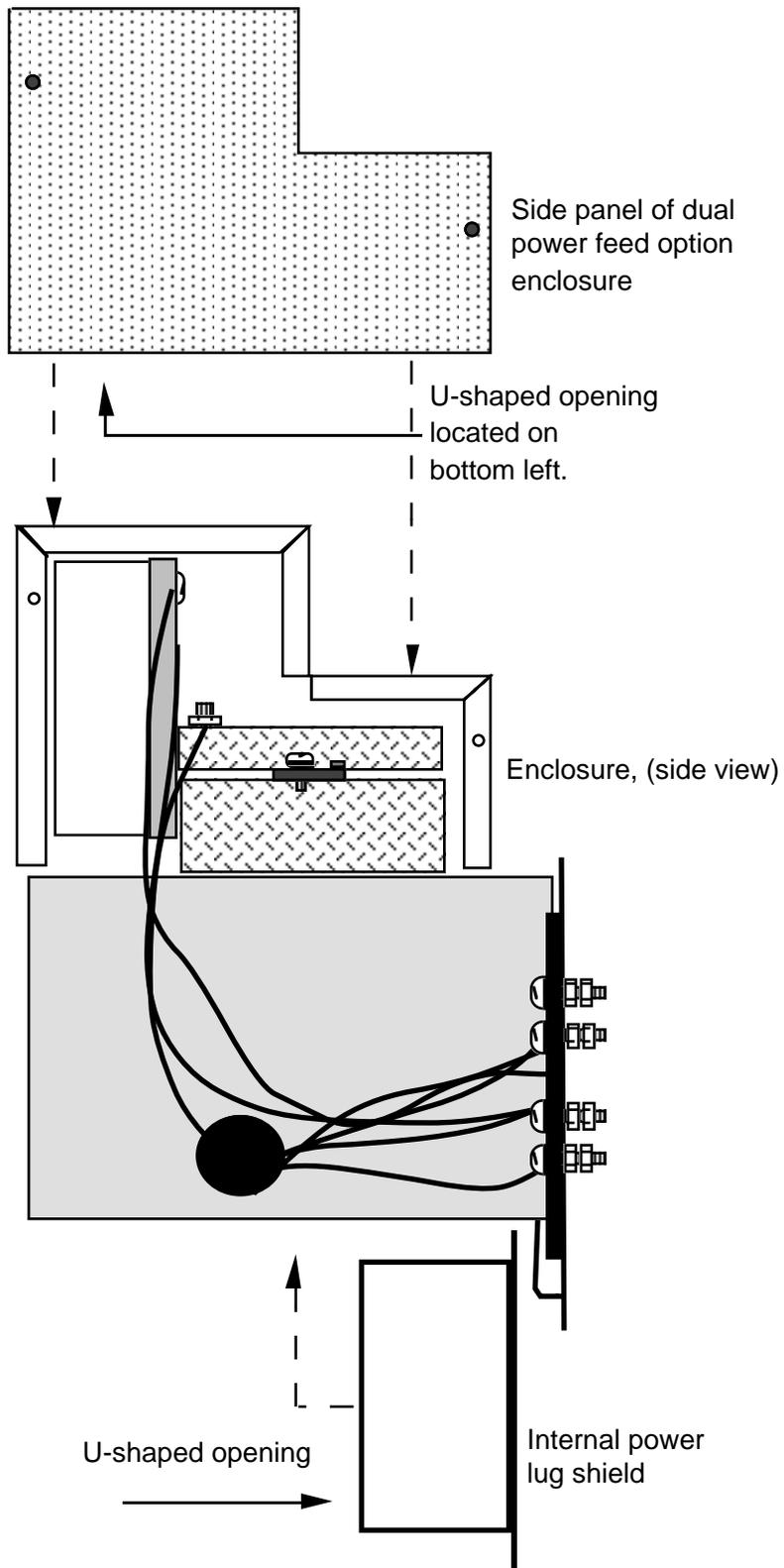Lugs

**Figure 3: Interior View of Power
Distribution Module**

Side panel of dual power feed option enclosure

U-shaped opening located on bottom left.

Enclosure, (side view)

U-shaped opening

Internal power lug shield

Figure 4: Side View of Power Distribution Module Showing Dual Power Feed Option

Side panel
of dual
power feed
option
enclosure

U-shaped
opening
located here

Enclosure,
(side view)

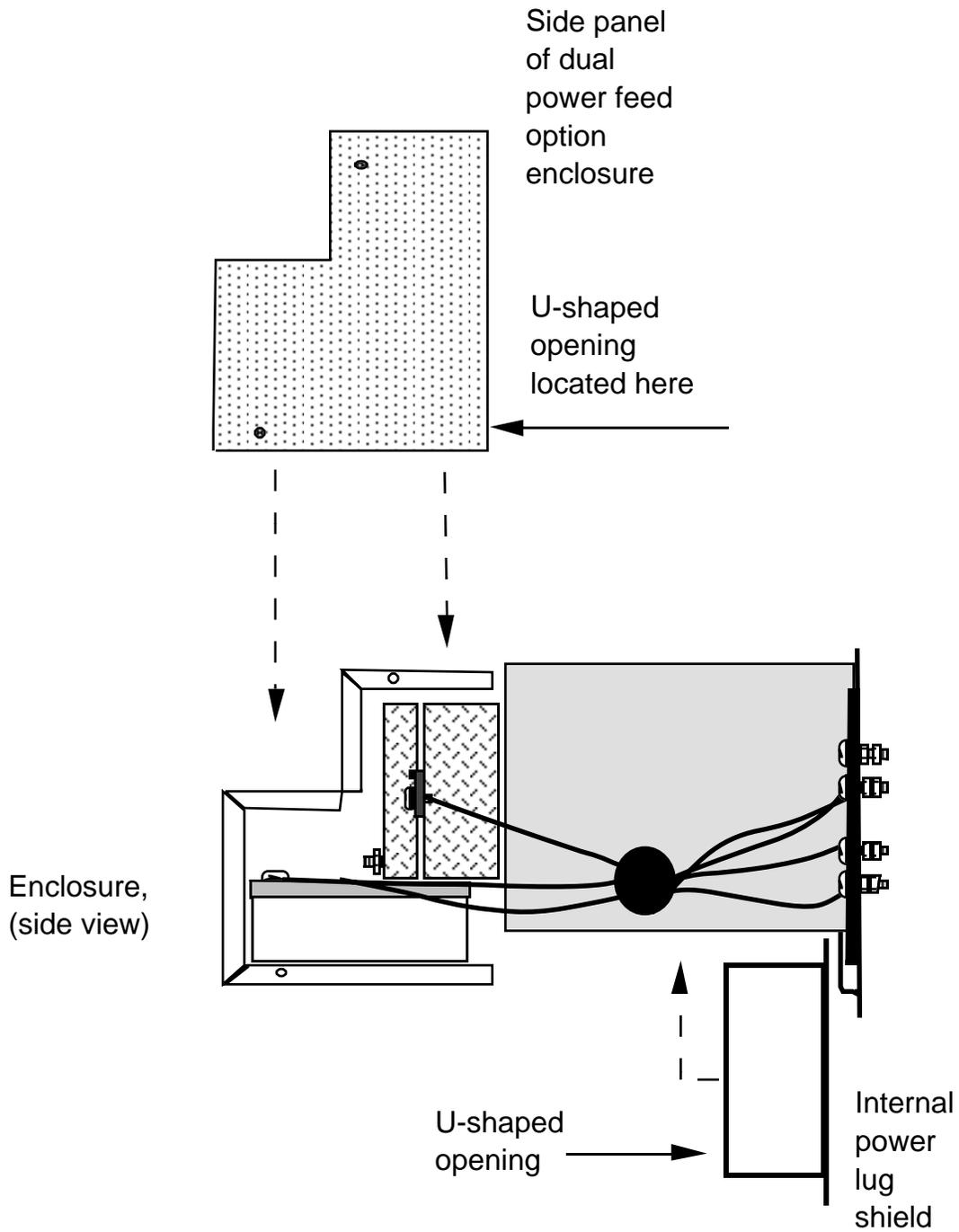U-shaped
opening

Internal
power
lug
shield

**Figure 5: Side View of Power Distribution Module
Showing Dual Power Feed Option Installed in
Expansion Cabinet**