

1. Introduction

These instructions describe how to safely install direct wiring for a Hardwired Output Power Distribution Unit for the APC Symmetra Rack Mount UPS.

Carefully read these instructions in their entirety before continuing.

WARNING!

Only qualified service personnel or electricians may perform the following procedure. The electrical terminals exposed in the following procedures will be energized if the UPS is on or plugged in. Make sure the UPS is both unplugged and off. Refer to Users Manual for instructions.

2. Required Materials and Tools

The following materials are not included, and must be supplied by the purchaser:

- ?? **Electrical cable or wiring** - Cable or wiring must be of sufficient current carrying capacity to safely accommodate the attached loads. Refer to local electrical requirements for the appropriate wire size.
- ?? **Electrical conduit or tubing** - Conduit or tubing should meet all local requirements for electrical wiring.
- ?? **Cable or conduit clamps** – This UPS requires cable clamps for the input and output cords. Panel knockouts are sized to accept 1/2" clamps.

NOTE: *Wiring codes and requirements differ from area to area. Be sure to conform to all local electrical requirements when installing and wiring this UPS.*

The following tools are required for installation.

- ?? Electrician's Pliers
- ?? Flat Blade Screwdriver
- ?? Phillips Screwdriver
- ?? Wire Cutters

3. Installation

This section provides step-by-step instructions for installing a Hardwired Output Power Distribution Unit for the APC Symmetra Rack Mount UPS

NOTE: The examples used in this manual assume a typical installation. *Be sure to conform to all local electrical requirements.*

3.1 Remove Existing Panel

1. Remove the 4 screws that retain the access panel as shown in Fig. 3.1, and set aside. These screws will be used later in step 3.2.4.
2. Disconnect the two connectors by squeezing the ears on the sides of the connector and gently pulling the connectors apart.

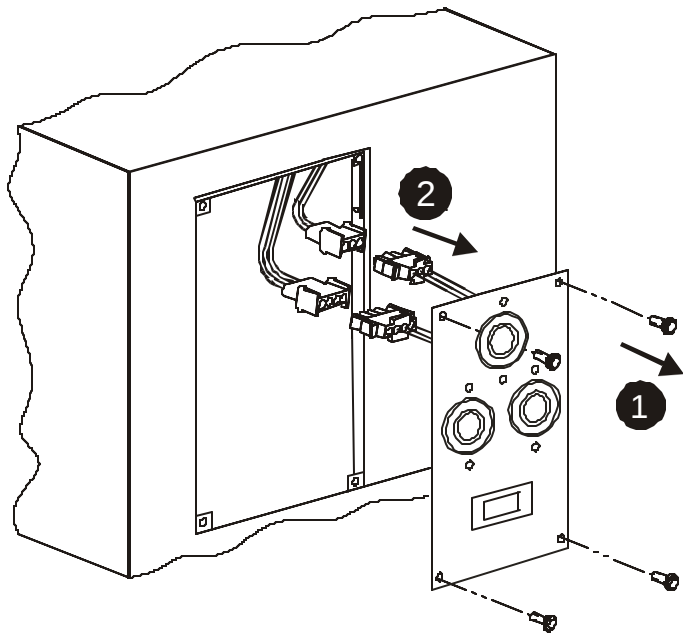


Figure 3.1 Removal of Existing Panel

3.2 Install New Panel

3. Remove new PDU from it's box and install the new PDU by first reconnecting the connectors as shown in Fig. 3.2.
4. Check fit of wiring by installing panel without securing screws. Adjust wires as needed. Reattach the 4 screws and tighten.

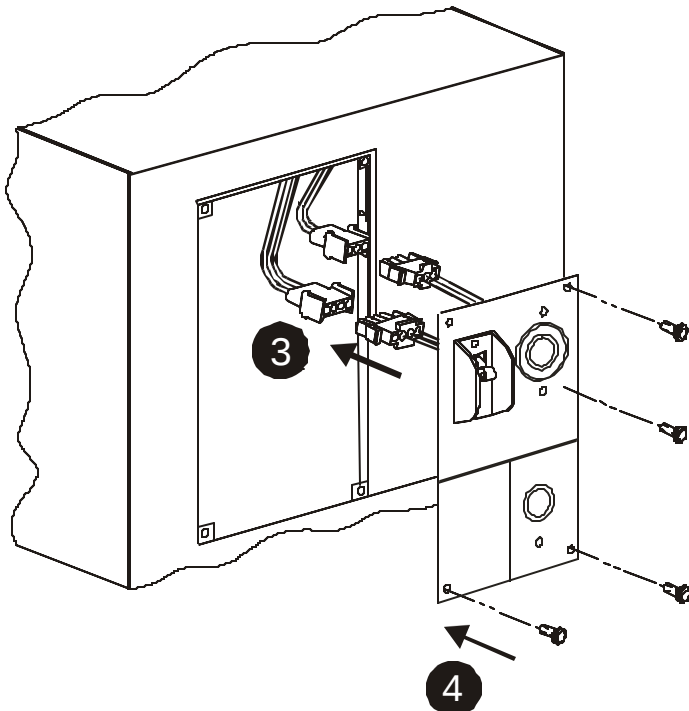


Figure 3.2 Installing Replacement Panel

3.3 Remove Access Plates for Hard Wire Connections

- 1. Remove the two screws that secure the access panels to the PDU assembly as shown in Fig 3.3.

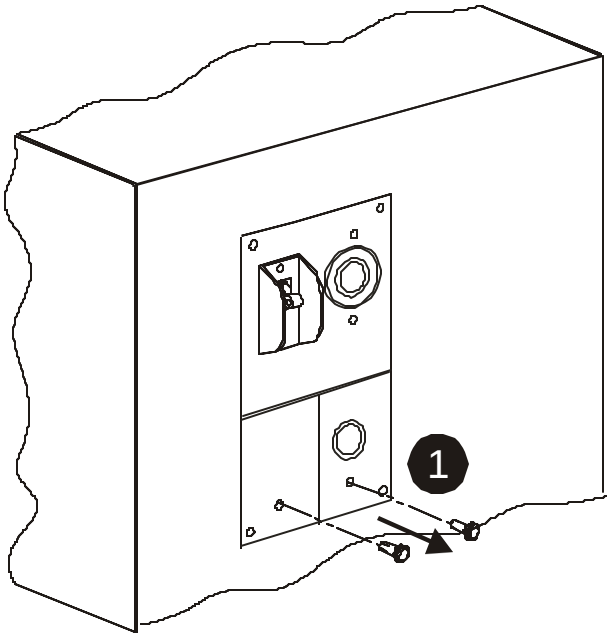


Figure 3.3 Remove Access Panels for Hard wire connections

3.4 Install Conduit and Wire to Knock Out Plate

- 1. Remove knock out from panel and install wiring, conduit and or strain relief (if flexible cable is used) as shown in figure 3.4.
- 2. Install the assembly back onto the PDU.

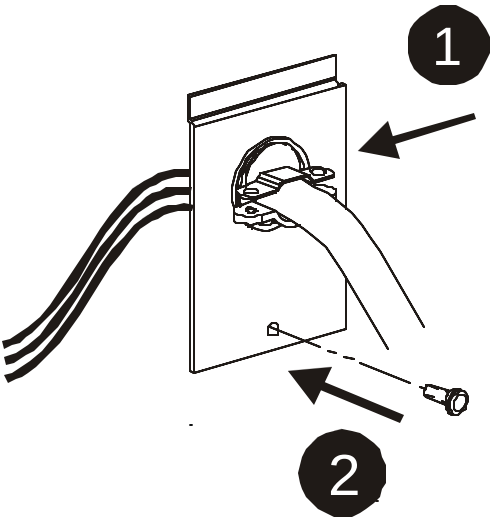


Figure 3.4 Install Conduit/Strain relief to Plate

3.5 Install Wires to Terminal Block

- 1. Strip off 3/8 of an inch on each wire and install to the terminal block as shown in Fig. 3.5. Tighten screws securely. Make sure all wires are securely fastened.

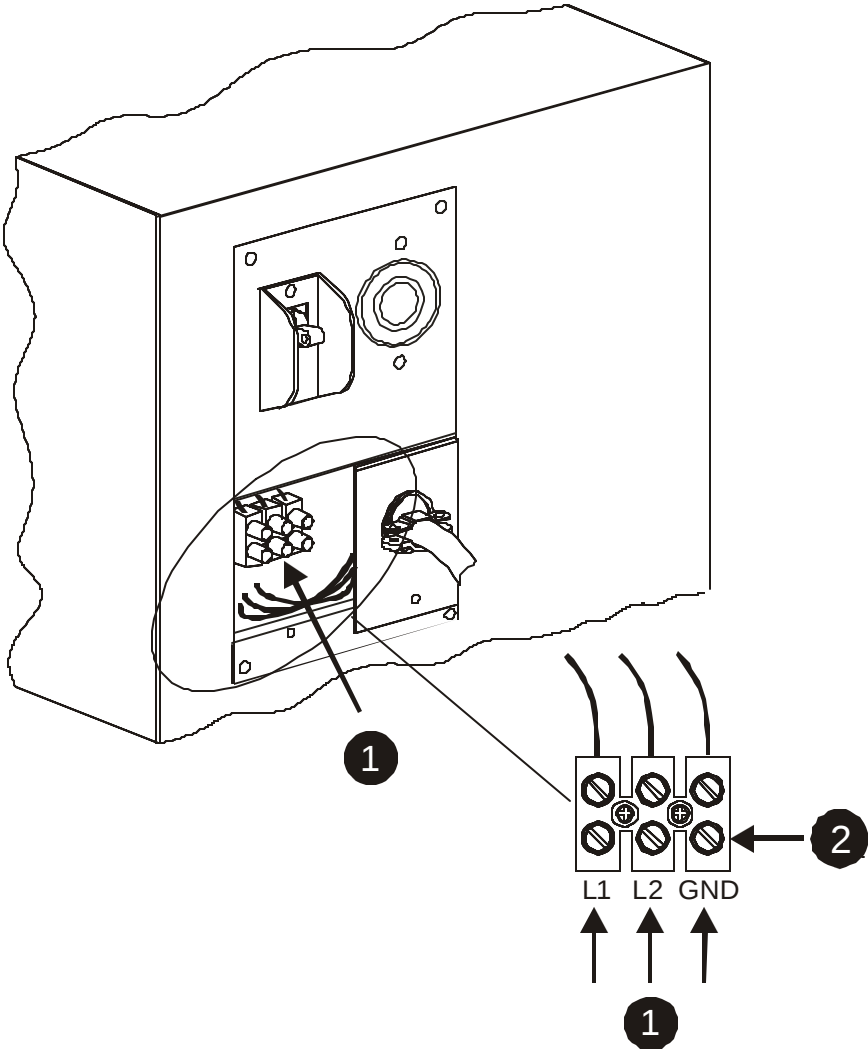


Figure 3.5 Install Wires to Terminal Block

3.6 Re-install Access Cover

- 1. Install Access Panel as shown in Fig. 3.6

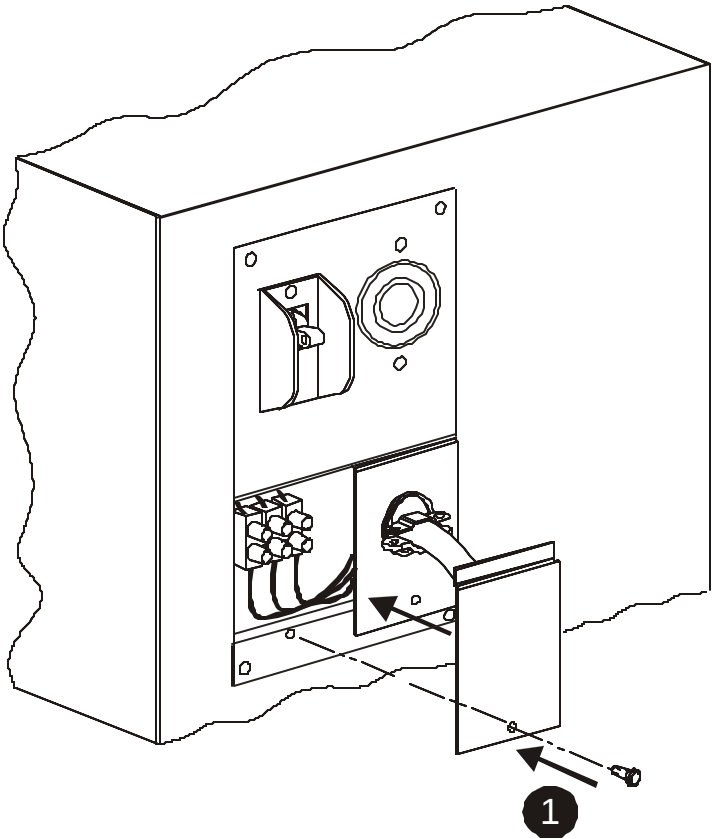


Figure 3.6 Install Access Panel