

Replacing an AC Power Cord in a Power Shelf

No system shutdown is required to replace one AC power cord in a power shelf. All components in the enclosure continue to receive power from the other power cord. No tools are needed for this procedure.

Unpack and inspect the replacement power cord. If the power cord is damaged, you need to order another one before continuing with this procedure.

Note: Before you remove a power cord, make sure the PIB-to-PIB crossover cable is securely connected to both PIBs. This cable is necessary for power to be routed from a single power supply to both sides of the enclosure. See [Power Shelf Bulkhead](#) and [Service Side of Power Shelf](#).

To remove a power cord:

- 1 Review the [Notes](#) page before beginning the replacement procedure.
- 2 Unplug the power cord from the AC outlet.

Note: In North America, the default AC power cords now have a twist-lock plug on the end that connects to the AC receptacle.

- 3 Lift up the locking bar on the power cord retainer. See [Connecting and Disconnecting a Power Cord in a Power Shelf](#).
- 4 Remove the power cord connector from the retainer in the power shelf.

You are now ready to install the replacement AC power cord.

To install a power cord:

- 1 Orient the plug with the single contact on top, and insert the plug in the retainer. See [Connecting and Disconnecting a Power Cord in a Power Shelf](#) and [AC Power Cord Installed in a Power Shelf](#). Fully seat the plug on the power supply connector prongs. You might need to move the plug from left to right and up and down to fully seat it.

Note: If the plug does not easily fit on the power supply connector, unseat the power supply, install the plug in the retainer, and then reseat the power supply.

- 2 Swing the locking bar down until it engages one of the slots on the plug housing and snaps into place. Do not force the locking bar. If the locking bar does not engage easily, the plug might not be seated correctly, or you might have the wrong cable.



Warning: The underside of the locking bar is sharp. Placing your fingers under the locking bar can result in injury. Failure to fully seat the plug into the retainer can result in cord damage from the locking bar.

- 3 Plug the other end of the power cord into the dedicated AC outlet.
- 4 If the circuit breaker was turned off to do this procedure, turn on the circuit breaker.
- 5 Verify that the power LED on the associated power supply is lit.

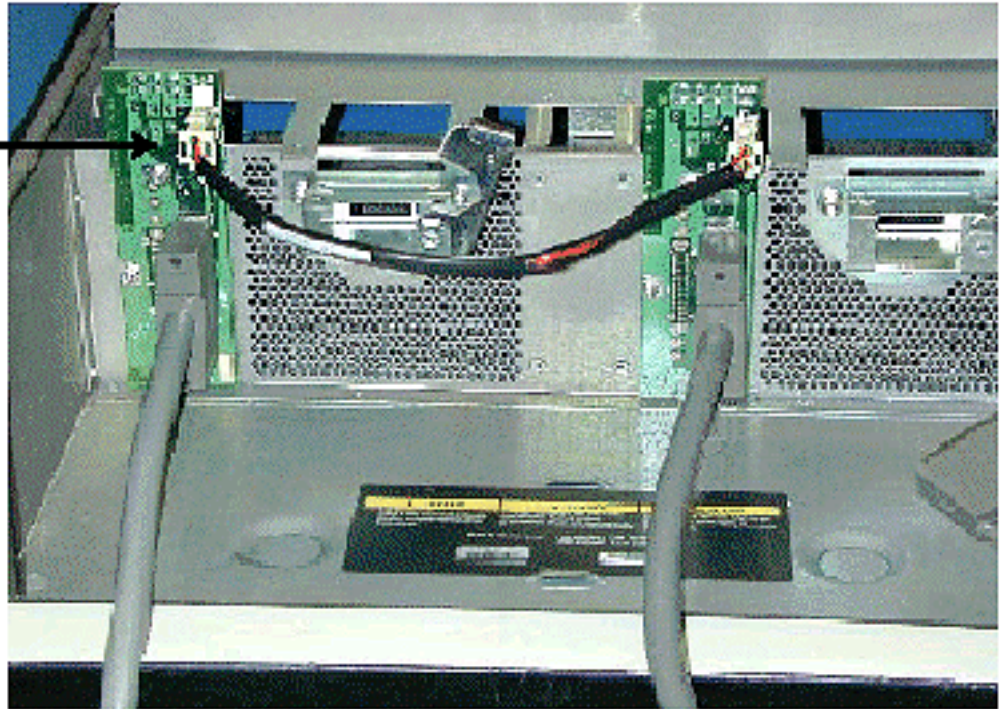
This completes the power cord replacement procedure.

Figure: Power Shelf Bulkhead

Ensure the PIB-to-PIB crossover cable connectors and the DC power cable connectors are fully seated.

Partial view: the AC power cords and power interface board (PIB) covers are not shown.

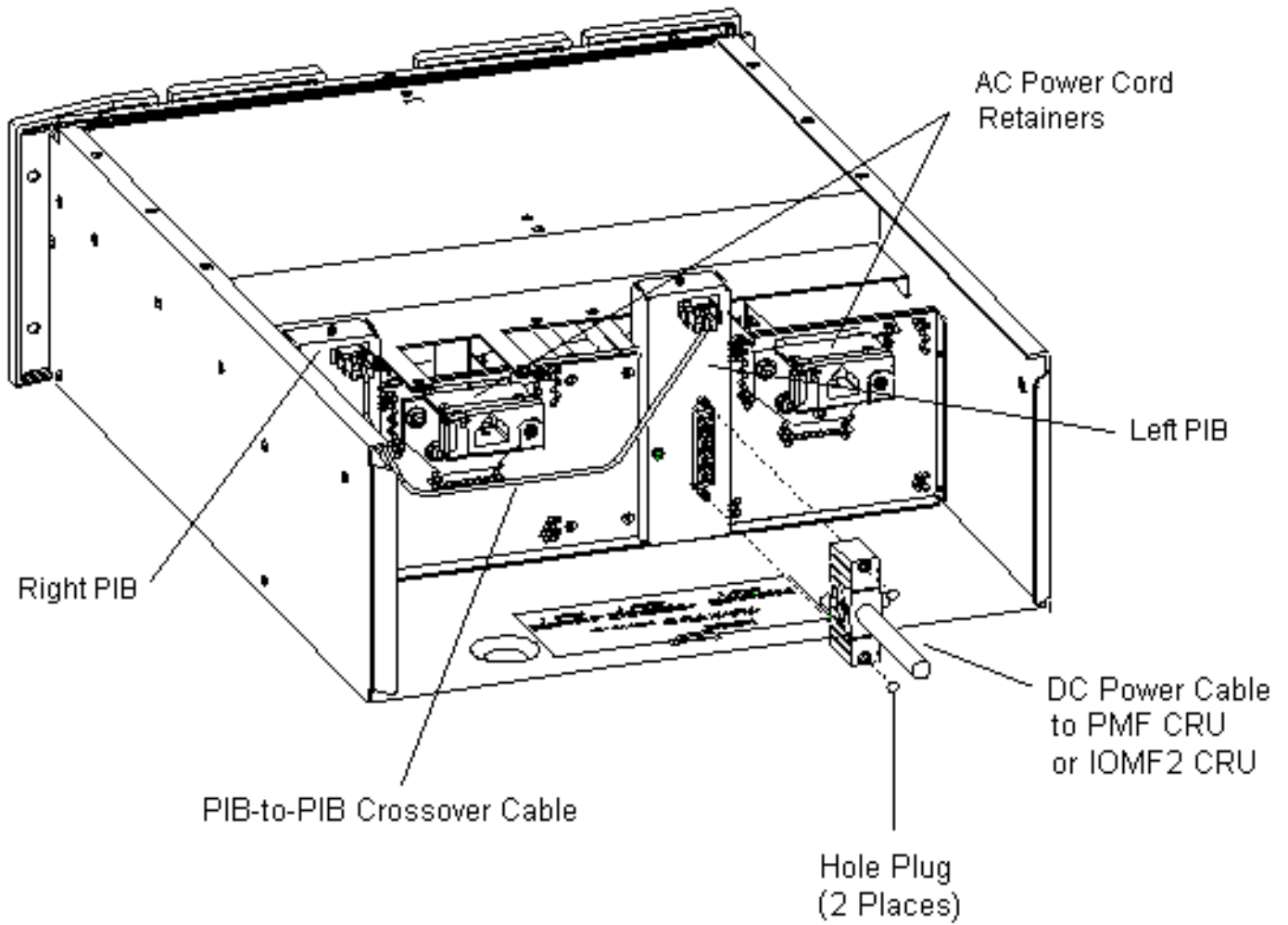
PIB-to-PIB
crossover cable



DC power cables
to PMF CRUs or
IOMF 2 CRUs

Figure: Service Side of Power Shelf

Partial View



Notes for Replacing an AC Power Cord in a Power Shelf

- The AC receptacles into which the server is connected must be accessible to the operator. Alternatively, the branch circuit breaker supplying power to each receptacle must be accessible to the operator and plainly marked so as to indicate that the circuit breaker is for this receptacle.
- Some AC power cords contain faulty connectors that when touched, vibrated, or flexed can cause intermittent power or the loss of a processor to occur. If the power cord molding is elliptical rather than square, or if the power cord part number is TPN 064583, you must replace the power cord offline with power cord TPN 421575. For more information, refer to FCO36048.
- The end of the AC power cord is caged in a holder that holds it in place for mating to the power supply. If the wrong AC power cord is installed, the power supply might push it back out of place without making a connection.

Figure: Connecting and Disconnecting an AC Power Cord in a Power Shelf

This Figure illustrates how to open and close a power cord retainer on the back of the power shelf.

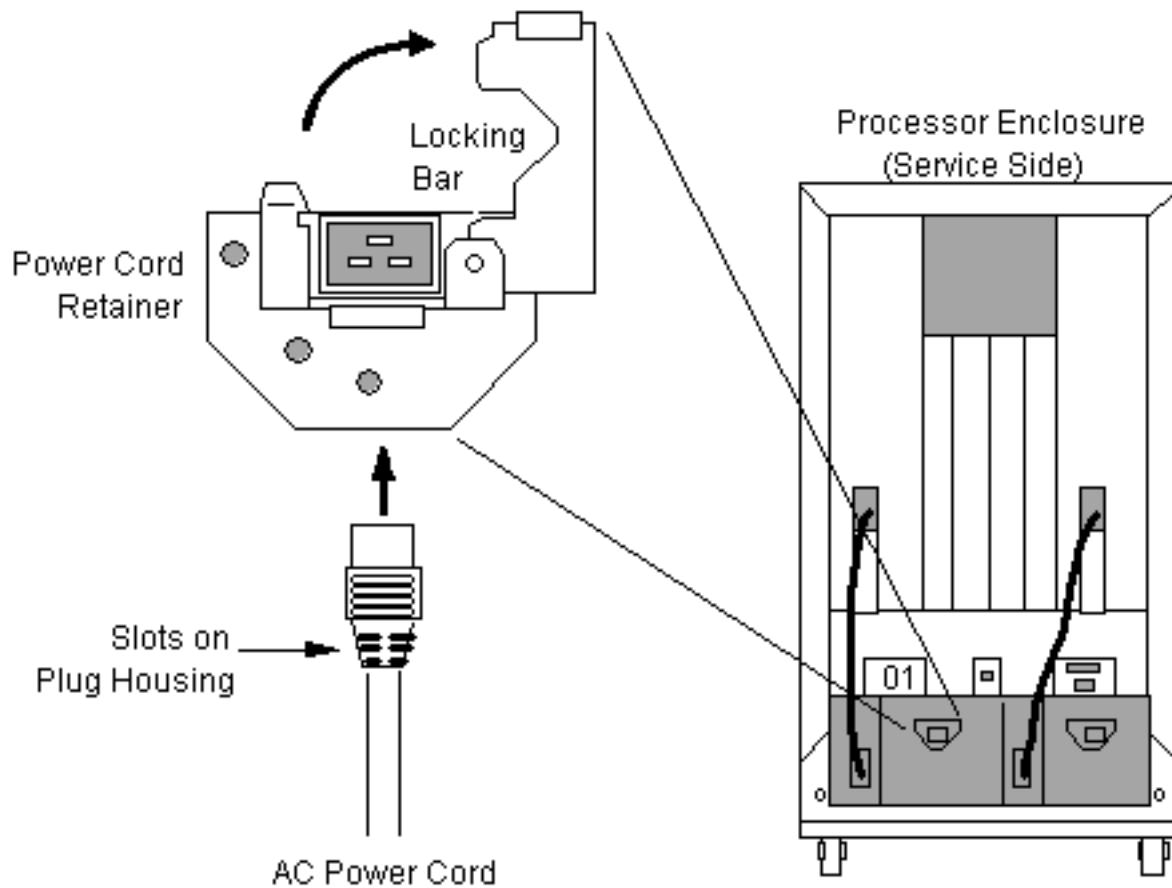


Figure: AC Power Cord Connector Installed in a Power Shelf

