

# VRM Replacement for the rp24xx

## DC-to-DC Converter Installation

This sheet contains instructions for replacement of the DC-to-DC Converters in the server. These new DC-to-DC Converter modules are installed when new processors are installed. The DC-to-DC Converters are replacements for the existing modules that should be returned HP.

Special instructions concerning the DC-to-DC Converters are shipped in this upgrade kit. Read and understand the instructions before installing the DC-to-DC Converters. When you unpack the new DC-to-DC Converters, save the shipping carton and packing materials. The old DC-to-DC Converters must be removed from the server and should be returned to HP. Package the removed modules in the used packing materials and ship via ground transportation.

### Important Steps:

- The DC-to-DC Converter modules and the system board are Electrostatic Discharge (ESD) sensitive and can be damaged during installation. Follow the instructions in the ESD kit to ensure proper ESD procedures are used.
- Power is applied to server circuits even when the power switch is set to OFF. Disconnect the power source before removing DC-to-DC Converters from server connectors.
- Please return the old DC-to-DC Converter modules to HP. Refer to:  
**<http://partpage.corp.hp.com/notes.asp?QRYSTR=NOTES&NTYPE=PRODUCT&NSUBITEM=A5571A>**  
for instructions and address.

### Procedure:

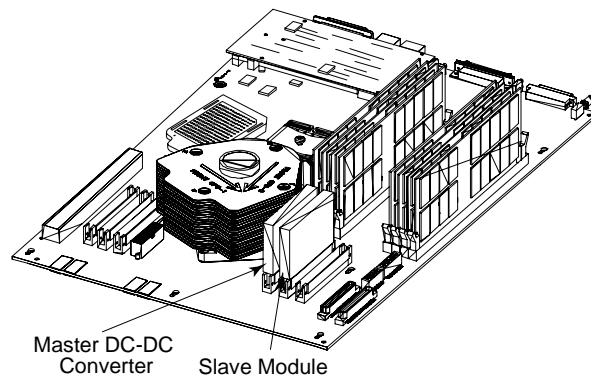
**Step 1.** Turn off and disconnect power from the server.

**WARNING** Dangerous voltages may be present if power is connected. For your protection, disconnect the server from the power source before proceeding.

**Step 2.** Remove the top cover to allow access to the system board and internal components.

**Step 3.** ESD precautions are important. Use the ESD wrist strap when touching server components.

**Step 4.** Locate the master and slave DC-to-DC Converter modules to be removed.

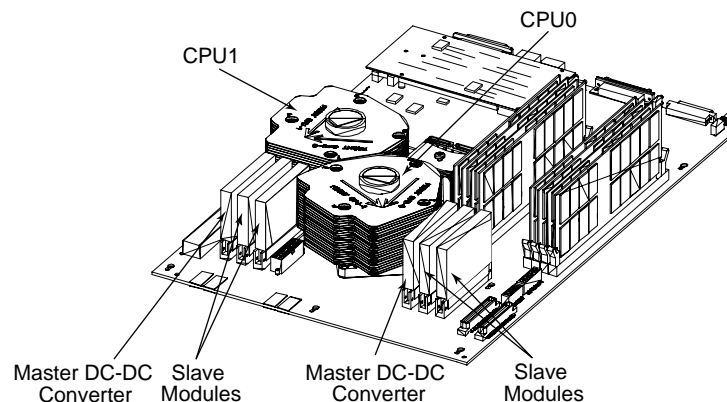


**Step 5.** For the DC-to-DC Converter module to be removed:

- Gently pull the left and right levers away from each side of the board (approximately 0.635 cm - 1/4 in.).
- Grasp the module by the left and right edges.
- With a gentle rocking motion, pull the module up and out of its slot.
- Place the module on a clean, static-free surface.

**Step 6.** Install Repeat step 5 for each DC-to-DC Converter to be removed.

**Step 7.** Install replacement DC-to-DC converters as follows:



- Grasp the module by the left and right edges and hold it above the appropriate connector on the system board. Inspect the module and connector - the module and connector are keyed and cannot be inserted incorrectly. Orient the module for insertion.

**CAUTION** DO NOT press hard on the left/right levers or they will break. Levers provide vertical stability, only.

- Press the module into the connector. Place your thumbs on the top edge of the module, near the left and right sides, and push it straight down into the corresponding until either an audible “click” is heard, or the levers close and seat into the slots in the side edges of the module
- Verify that the left and right levers on each side of the module are in the closed position

**Step 8.** Install the top cover and reconnect power.

**Step 9.** Place the removed DC-to- DC Converter modules in the used shipping materials and return to HP. Refer to:

**<http://partpage.corp.hp.com/notes.asp?QRYSTR=NOTES&NTYPE=PRODUCT&NSUBITEM=A5571A>**  
for instructions.