

# Installation Sheet

**LP 1000r  
(1.13 and 1.26 GHz)**

**HP Netserver**



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## Notice



## Setting Up the HP Netserver LP 1000r (1.13 and 1.26 GHz)

### Audience Assumptions

This guide is for the person who installs, administers, and troubleshoots LAN servers. Hewlett-Packard Company assumes you are qualified in the servicing of computer equipment and trained in recognizing hazards in products with hazardous energy levels. The instructions in this document are provided in greater detail in the HP Netserver LP 1000r User Guide.

### Configuring the HP Netserver

#### 1. Power on the HP Netserver and the monitor:

- Insert the HP Netserver Navigator CD-ROM in the CD-ROM drive.
- The server should boot from the HP Netserver Navigator CD on its own, if not, turn the power off, wait 10 seconds and turn the power back on again.
- If the system fails to boot, follow the instructions on the screen.
- Press [F2] to enter setup, or
- Press [F4] to accept automatic configuration update (if prompted to do so).

#### 2. Configure the Netserver and Install the Network Operating System (NOS):

- During the configuration process you will be asked to select the NOS Installation Mode.
- From the HP Netserver Navigation Main Menu, view the system **Readme** from the HP Navigator main menu for the most current installation information.
- Use the HP NetServer Navigator to configure the Netserver. If you use Navigator's Guided, Custom, or Replication modes, you will be prompted through the process.

**NOTE** If certain versions of the Microsoft Windows NT Server are used, a prompt will appear indicating selections of automated or manual NOS installation.

- Choose the automated NOS installation mode for first-time installations of Microsoft Windows 2000 (NT) Server on factory-configured HP Netserver. You will be guided through the process by a series of HP display screens.

- Perform a manual install if you are installing a NOS other than Microsoft Windows 2000 (NT) Server or if you have replaced HP components (for example adding a SCSI controller board from a third-party). You will need to use the NOS vendor's installation process.
- Before you leave the Navigator and install your NOS, ensure you view and print the HP-customized NOS installation instructions and create the driver diskette(s) for the NOS you are installing.

#### 3. Install or Configure Tape Backup Software:

- If your Netserver uses a tape backup device, install and/or configure the tape backup software now.
- Refer to the Tape Backup Getting Started Guide for instructions on installing and configuring the tape backup software.

#### 4. Refer to the HP Netserver Online Documentation CD-ROM:

- Use this CD-ROM for updated information about your HP Netserver and as reference for any additional information not provided in this Installation Guide.

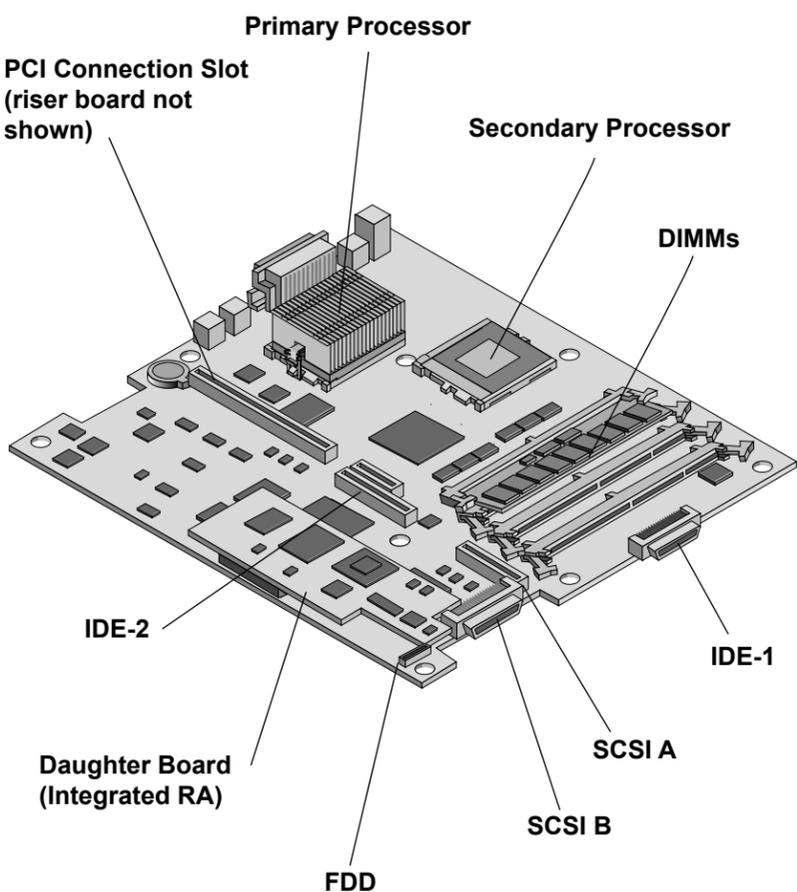
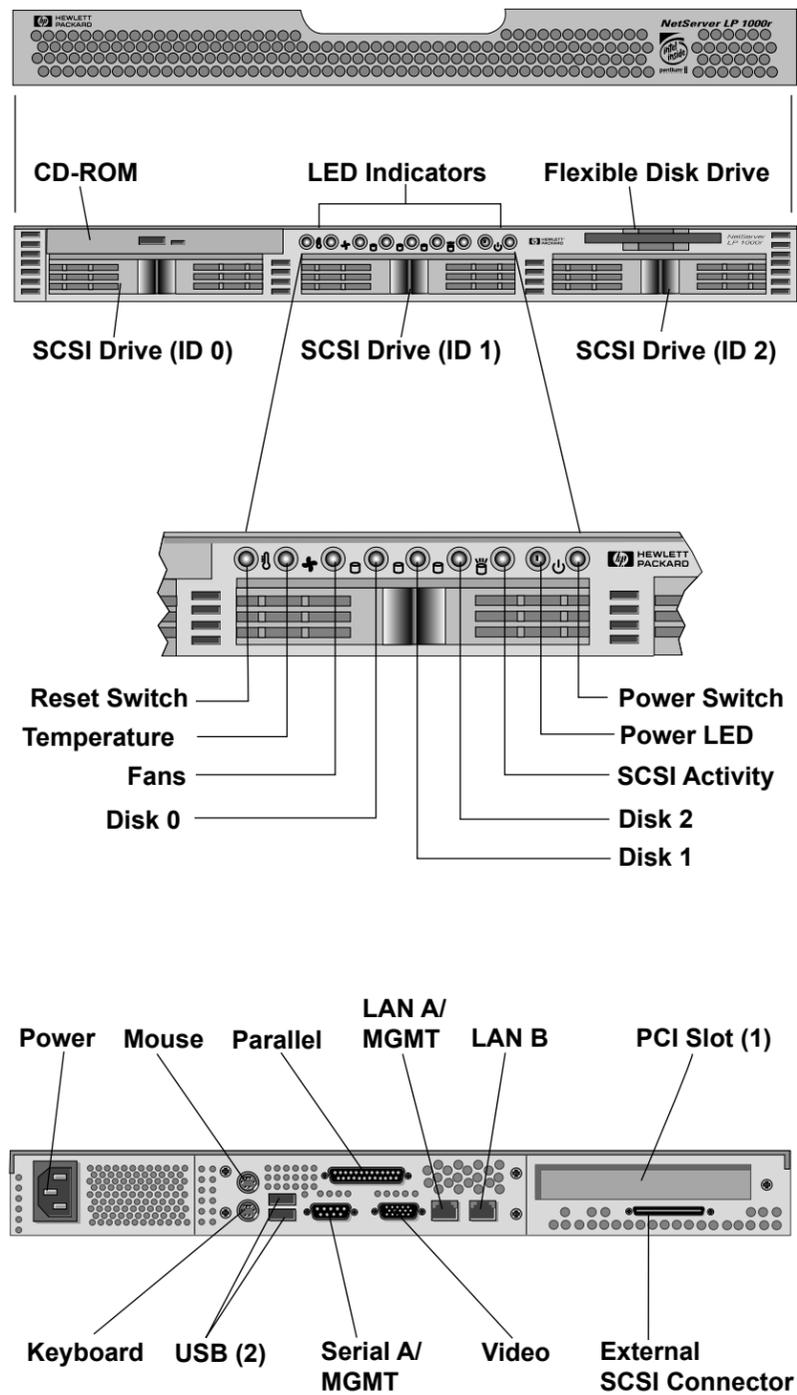
**NOTE** If you plan to use the Integrated Remote Assistant (Integrated RA) feature to run Netserver utilities remotely, the Utility Partition must be created using the HP Netserver Navigator. If you choose the Guide mode of configuration, the partition will be created automatically. Otherwise, you will need to choose Install/Update Utility Partition during the custom configuration process. For more information on the Integrated RA feature, refer to the "Remote Administrator Guide" found on the HP Netserver Online Documentation CD-ROM.

#### 5. Run DiagTools: (Optional)

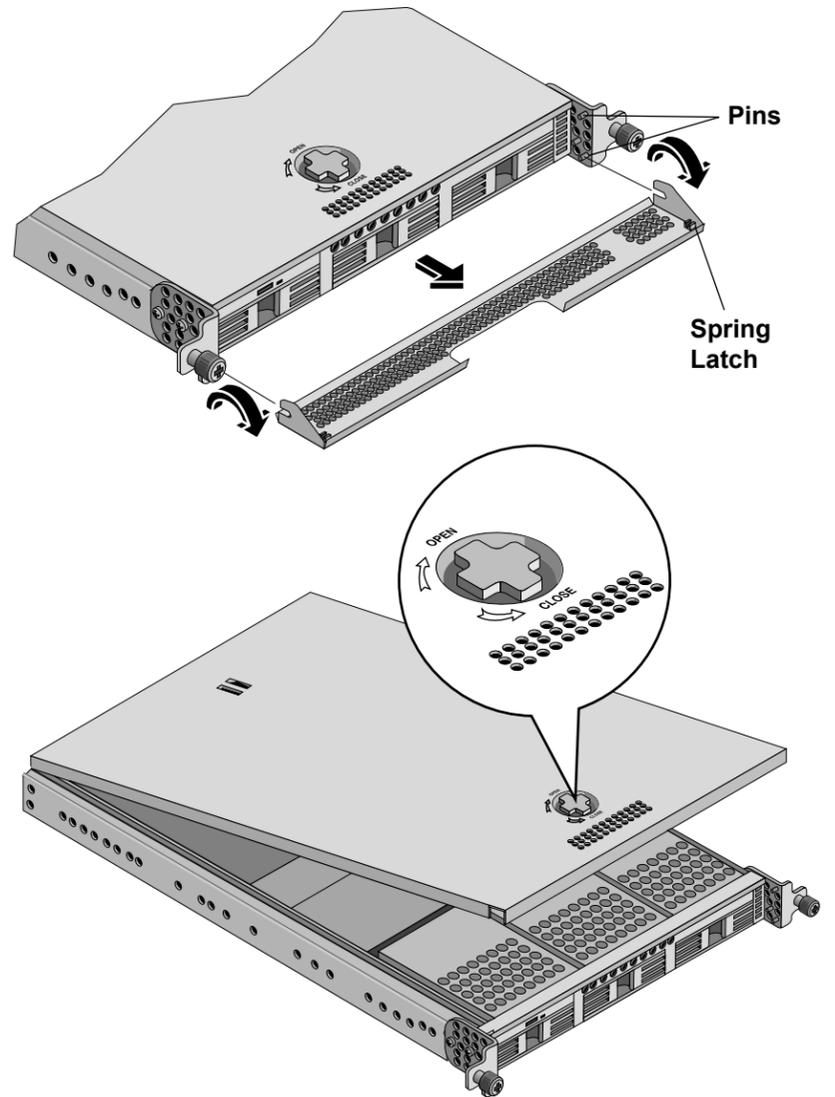
- Create the HP DiagTools diskettes from the Netserver Utilities (or Diskette Library) on the HP Netserver Navigator CD-ROM.
- Run HP DiagTools and after completing all the configuration topics, save the support ticket to a diskette for future reference.

## Familiarize Yourself

Front of HP Netserver  
Bezel Removed

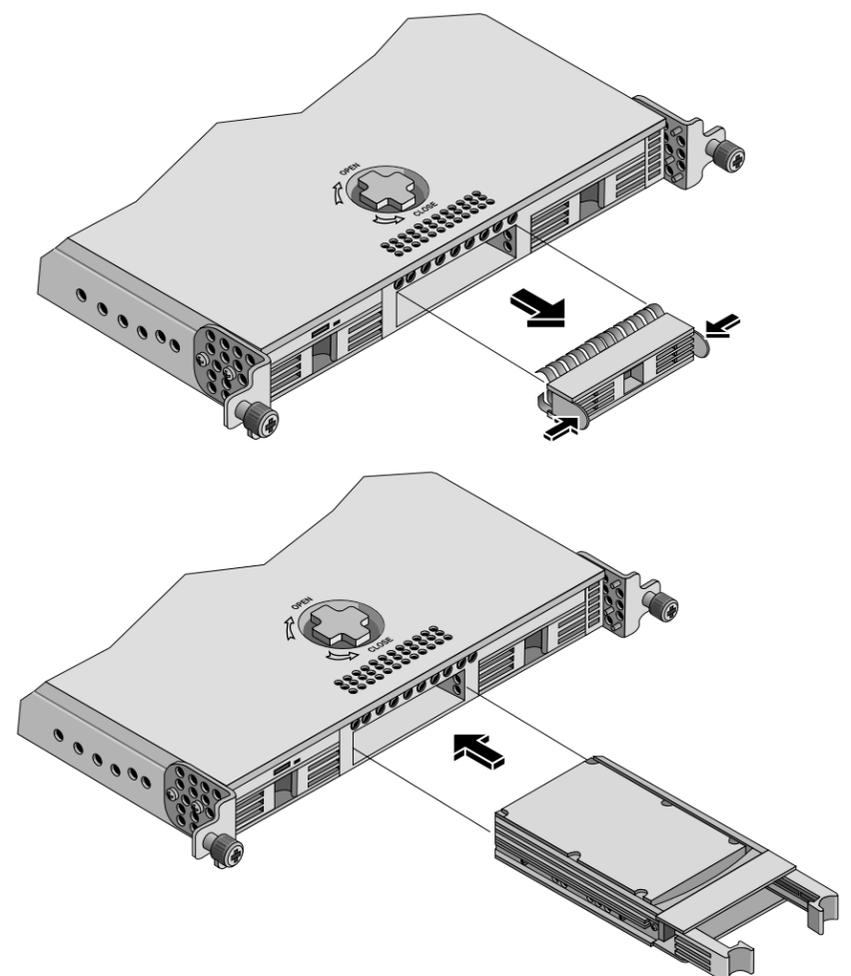


## Opening the HP Netserver



- WARNING** □ Before removing the cover, always disconnect the □  
□ □ power cord and remove any telephone cables.
- □ Disconnect the power cord to avoid exposure to high □  
□ □ energy levels that may cause burns when parts are □  
□ □ short-circuited by metal to objects such as tools or □  
□ □ jewelry. Disconnect telephone cables to avoid □ □  
□ □ exposure to shock hazard from telephone ringing □  
□ □ voltages. □ □ □

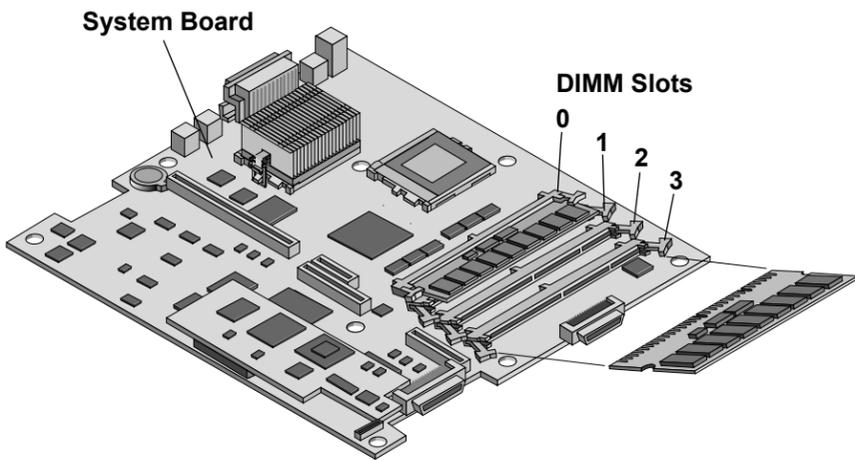
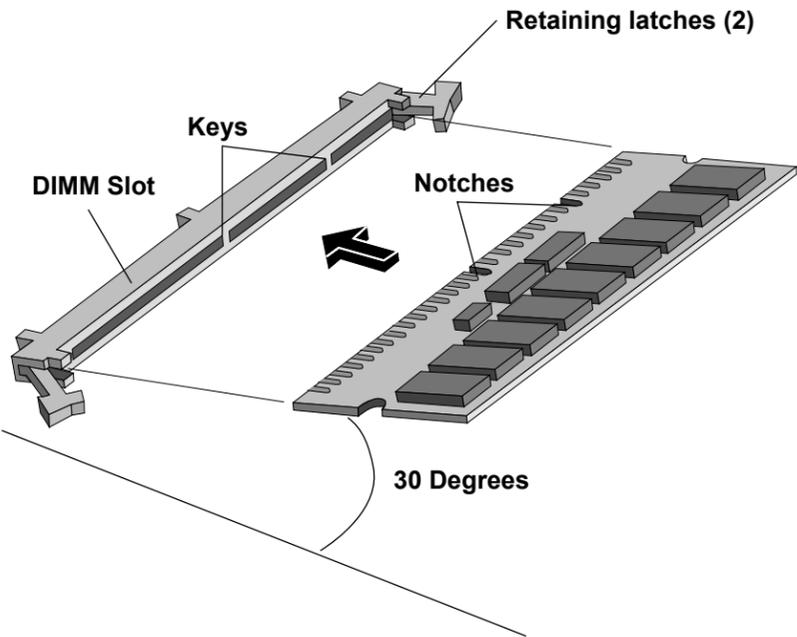
## Installing Mass Storage Devices



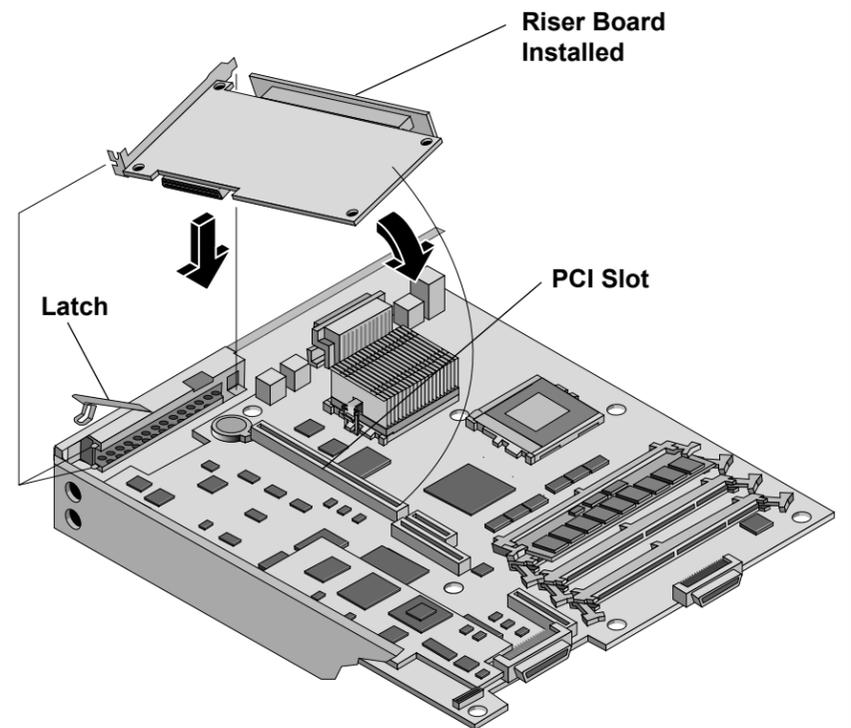
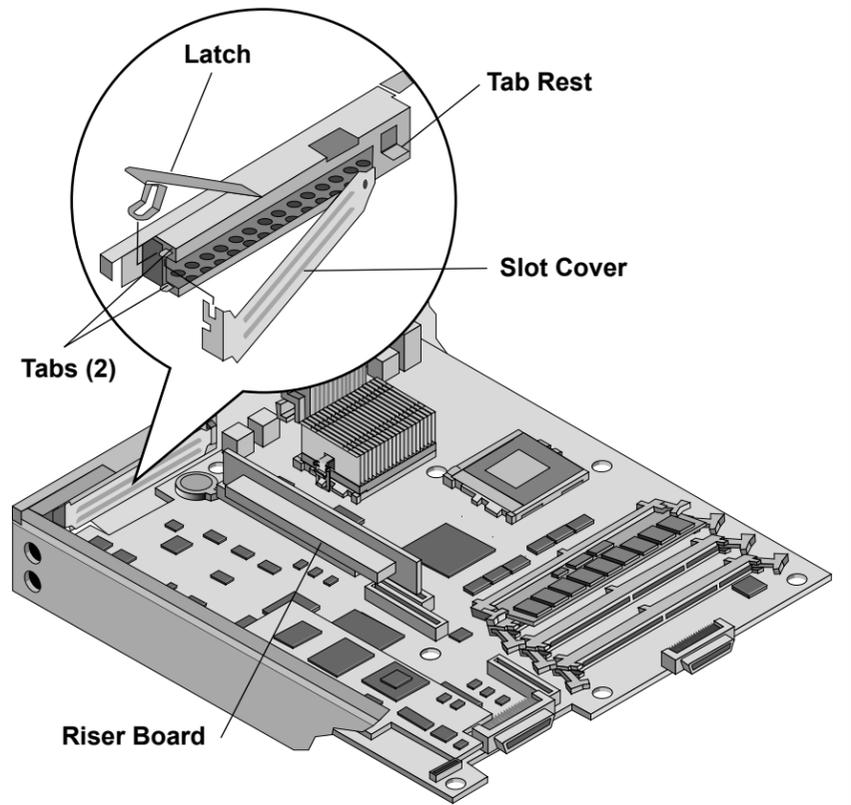
- CAUTION** □ Do not use high voltage differential (HVD) SCSI □  
□ □ devices in this Netserver or you will damage the □  
□ □ devices.

## Installing Memory

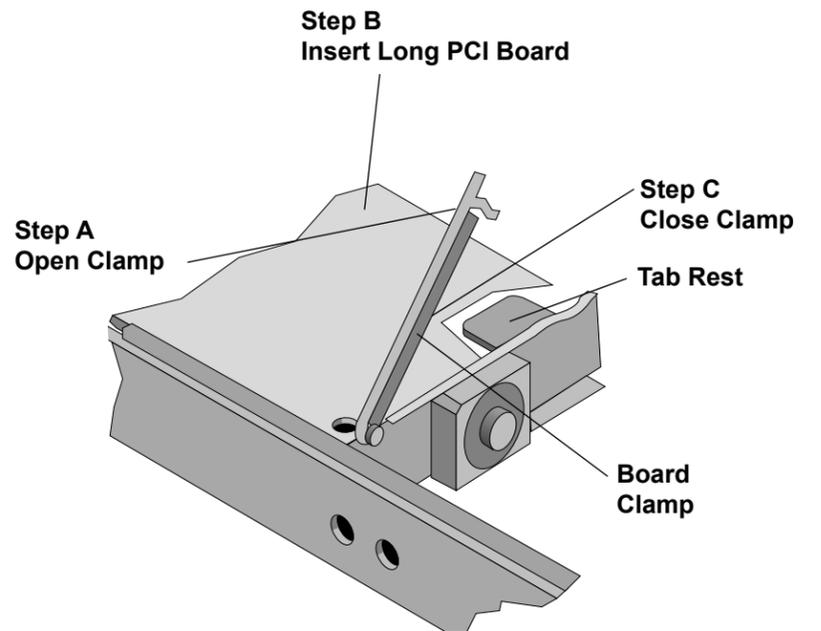
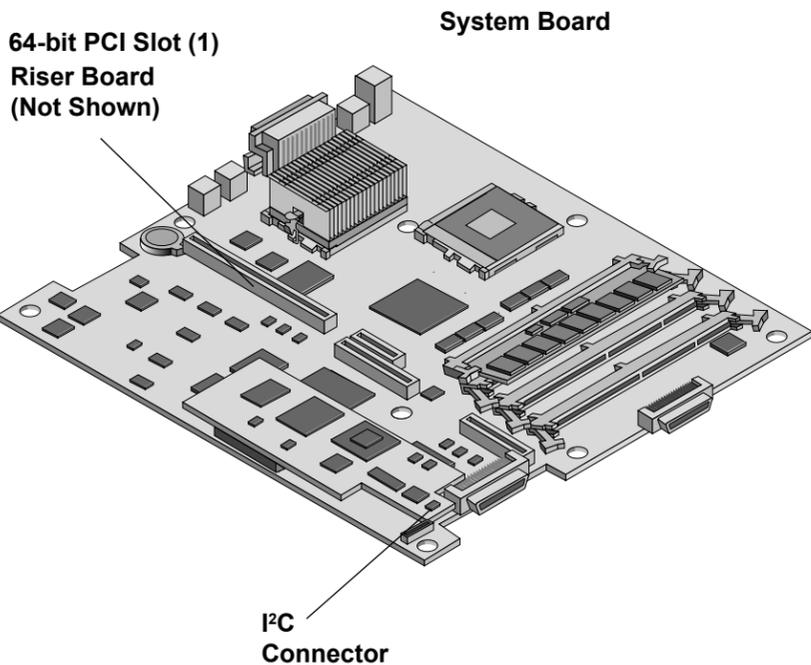
- CAUTION** □ Ensure you hold the DIMM tightly as you push it □ straight into the slot. It is possible to turn or bend the □ DIMM slightly while inserting it, which would damage □ or break the DIMM socket.
- If a DIMM socket is damaged, you must use another □ DIMM slot or replace the entire HP Netserver, since □ this Netserver is not repairable in the field.



## Installing the PCI Accessory Board (Continued)



## Installing the PCI Accessory Board



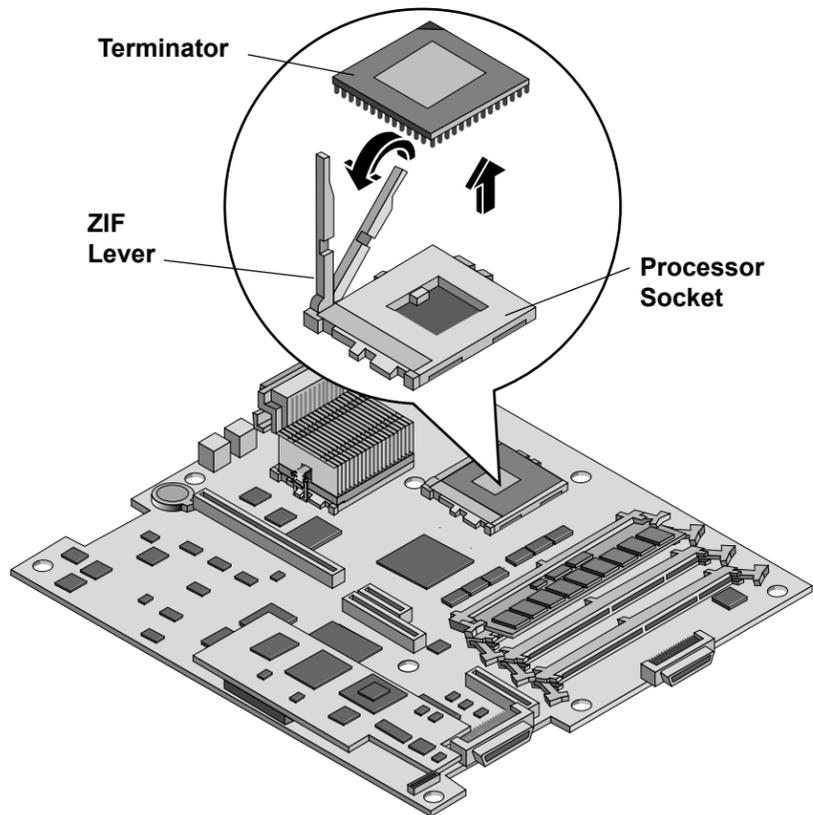
## Installing a Second Processor

**CAUTION** Do not open the new processor's protective bag or remove it from the bag until you are ready to install it.

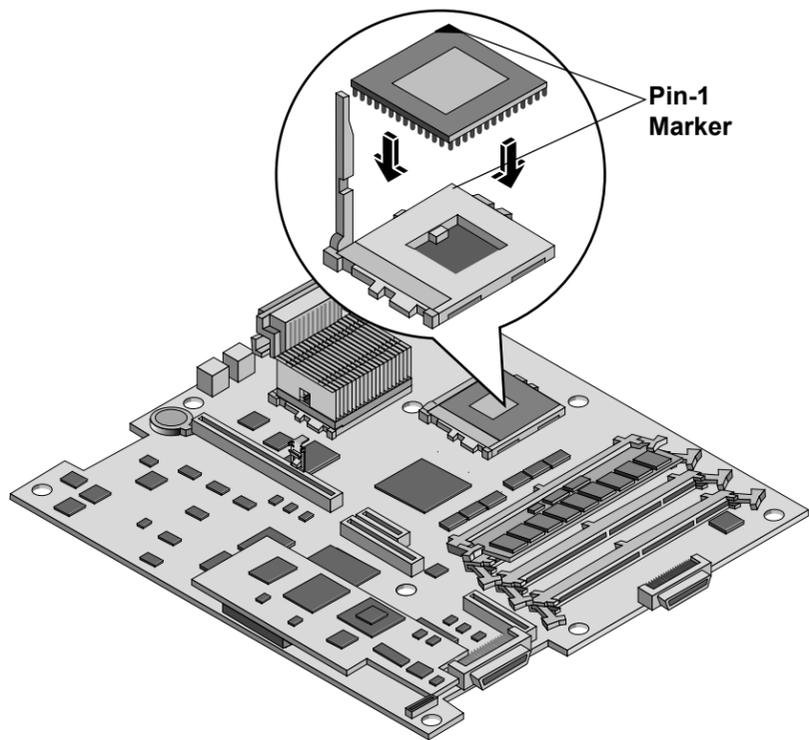
Always wear a wrist-strap and use a static-dissipating work surface connected to the chassis when handling components. Ensure the metal of the wrist strap contacts your skin.

Before you remove a processor from the anti-static bag, touch a grounded, unpainted metal surface on the HP Netserver to discharge static electricity.

**NOTE** No speed switch settings are required for the supported processors (1.13 or 1.26 GHz) in the HP Netserver. These processors rely on the internal settings within the processors and do not rely on external switch settings on the system board.



**NOTE** Retain the terminator for future use. The Netserver will not operate properly if using only one processor with no terminator installed.



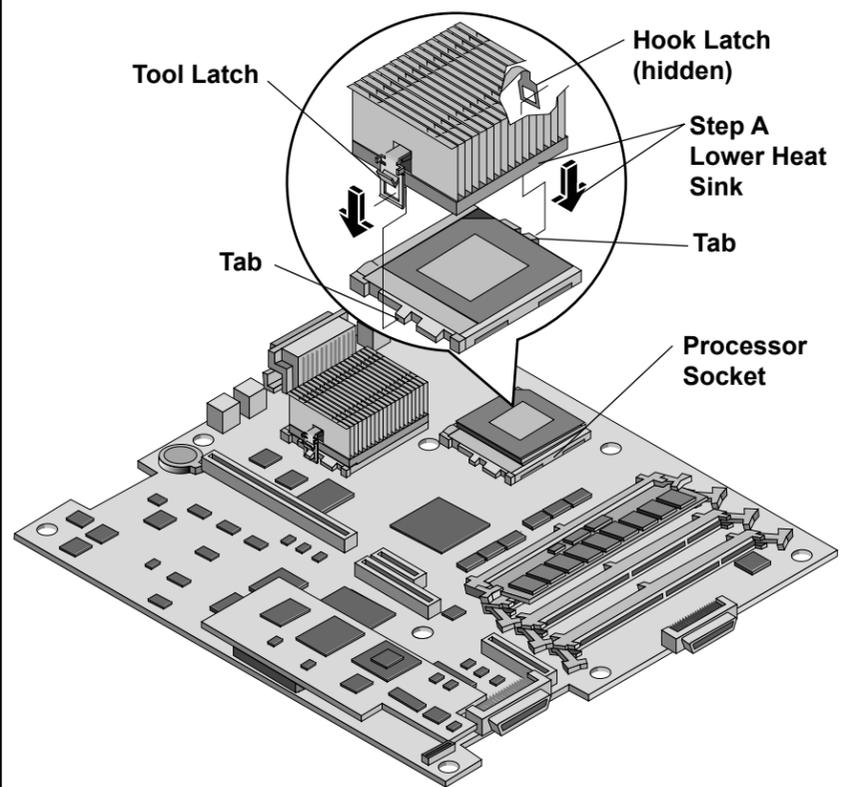
**CAUTION** Once the system has been turned on, heat from the processor activates the thermal patch which bonds the heatsink to the processor. Removing the heatsink destroys this bond and a new thermal patch will be required.

Each time the heatsink is removed from the processor, some of the thermal material is removed from the patch.

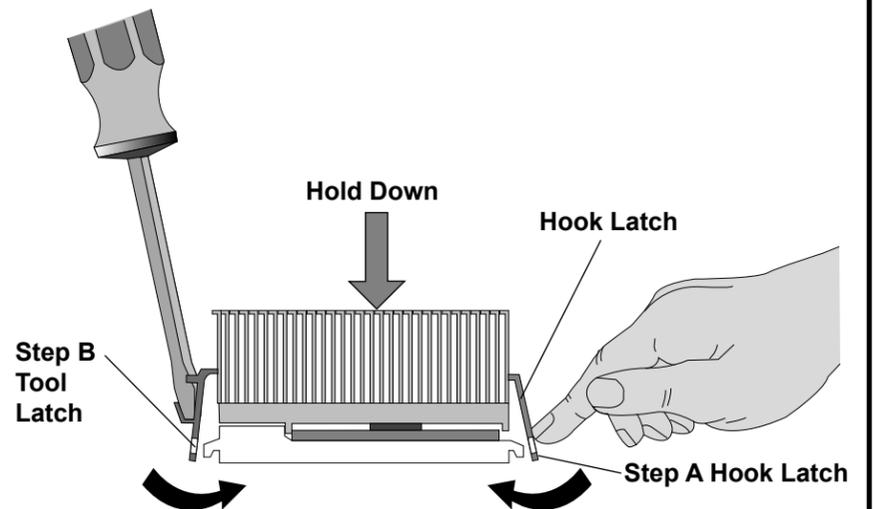
**NOTE** If you are re-installing a heatsink on the processor, you may need to scrap off any thermal material left on top of the processor chip. Use your fingernail to scrap off the material, but ensure you are grounded with a static-dissipating wrist strap.

## Installing a Second Processor (Continued)

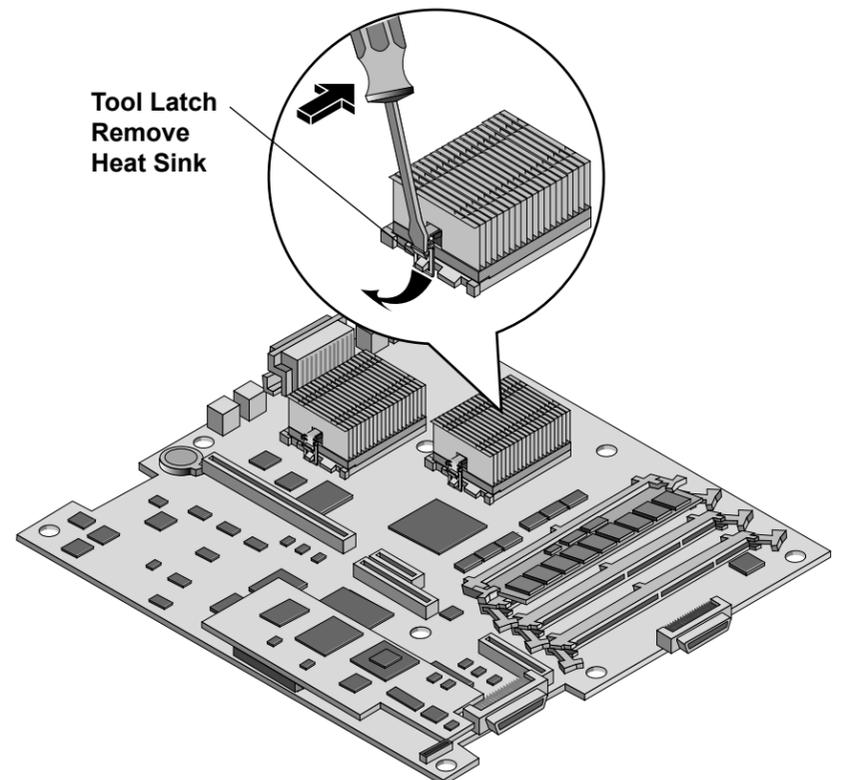
**CAUTION** To prevent overheating and possible damage to the processor, inspect the thermal patch to ensure the thermal material covers the whole patch. If not, you must remove the old patch and replace it with a new thermal patch.



**CAUTION** If good contact is not made the processor can overheat and possible damage may occur.



**CAUTION** To prevent scratching off some of the thermal material, do not slide the heatsink around once it is on the processor. Rocking it slightly to install both sides of the latch is acceptable.

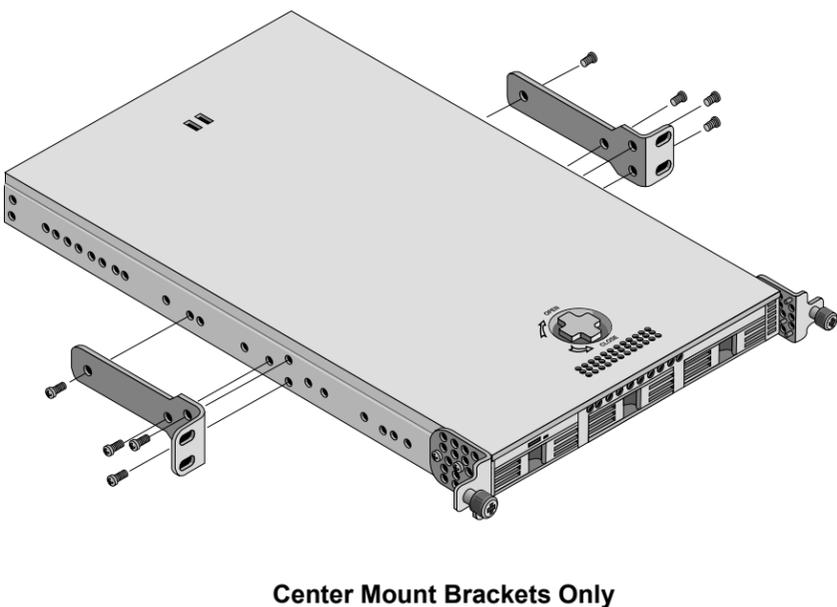
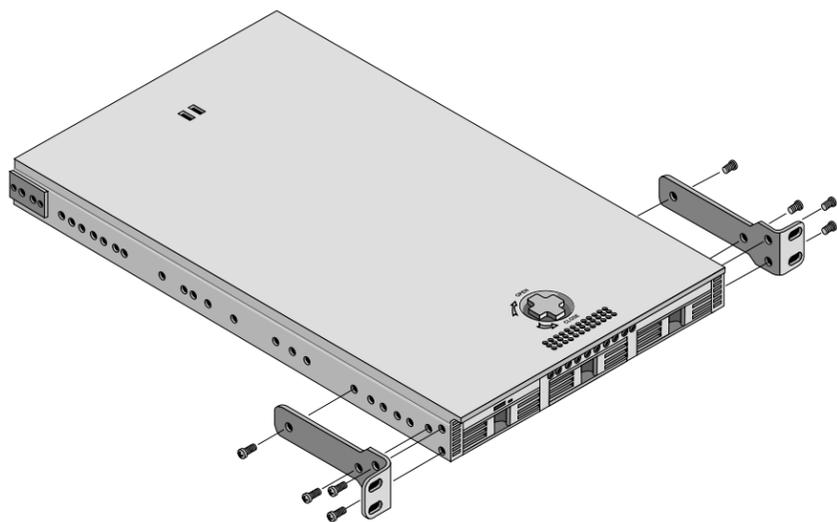
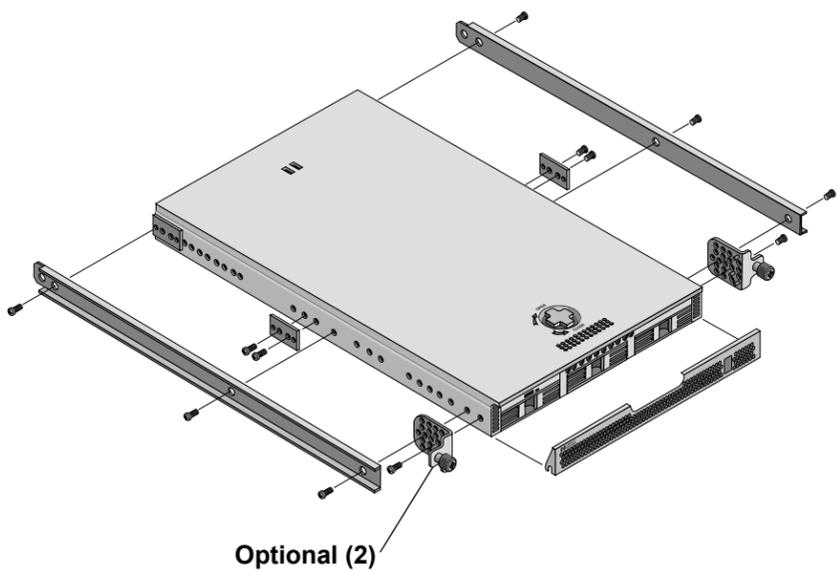


## 2-Post Rack Installation

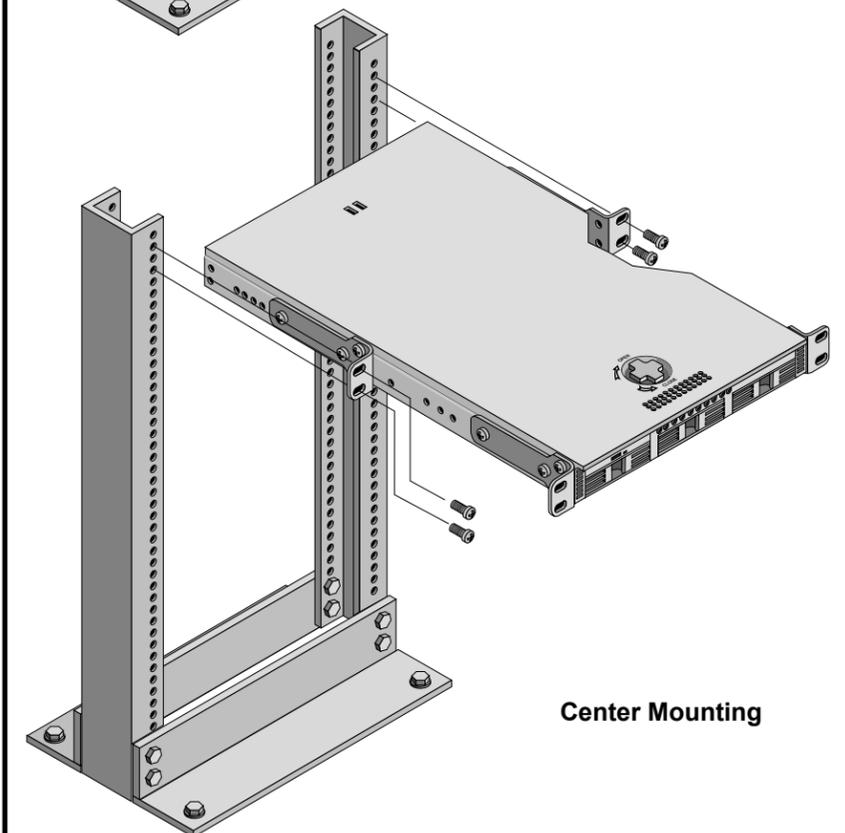
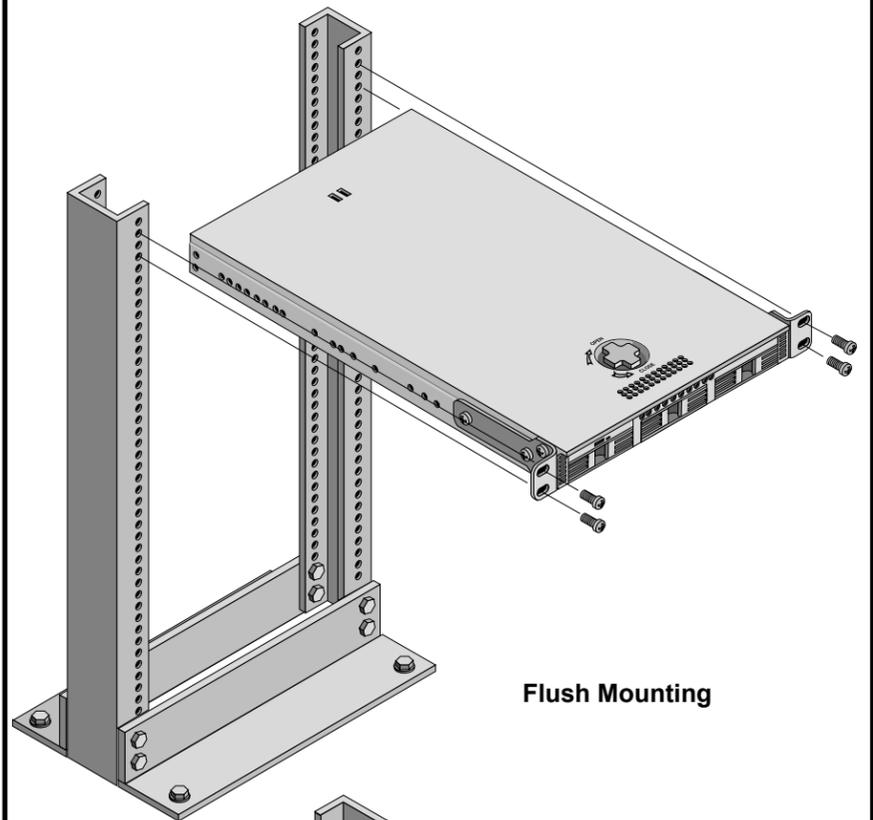
**NOTE** Refer to the white paper, *HP Netserver High Density Rack Solutions Overview (LP 1000r and LP 2000r)* on HP's Web site for high-density rack information.

**NOTE** The installed inner-rails shipped with the HP Netserver are used for the 4-post HP racks. These rails must be removed for 2-post rack installation and replaced with the mounting brackets.

**WARNING** To prevent personal injury or damage to the equipment, use two people to mount the HP Netserver into the rack. The HP Netserver weighs 32 lbs (14.5 kg) fully loaded.



## 2-Post Rack Installation (Continued)

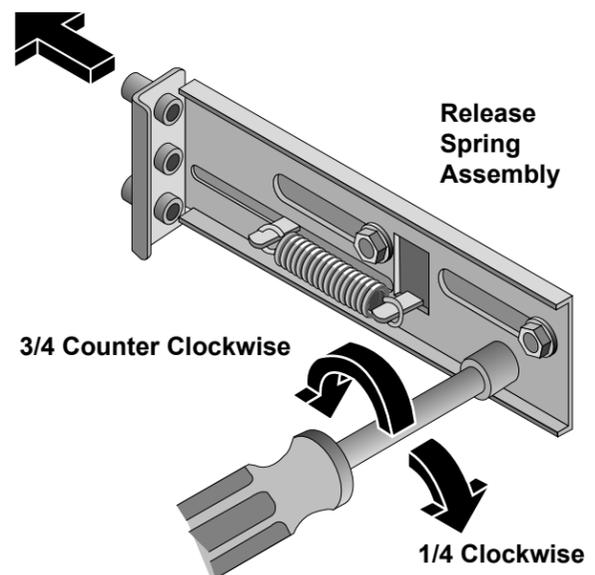


## 4-Post Rack Installation

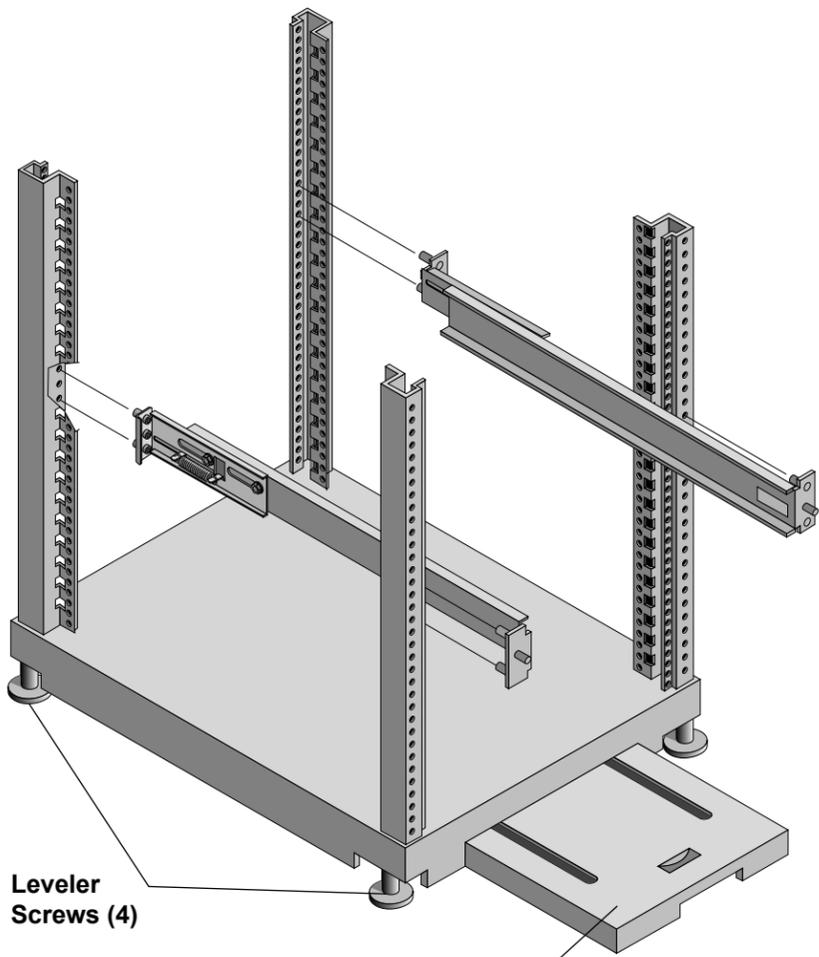
**NOTE** Refer to the white paper, *HP Netserver High Density Rack Solutions Overview (LP 1000r and LP 2000r)* on HP's Web site for high-density rack information.

**WARNING** To prevent rack instability while mounting the HP Netserver ensure the rack's anti-tip foot is pulled forward out of the bottom. Failure to do so could result in injury and equipment damage.

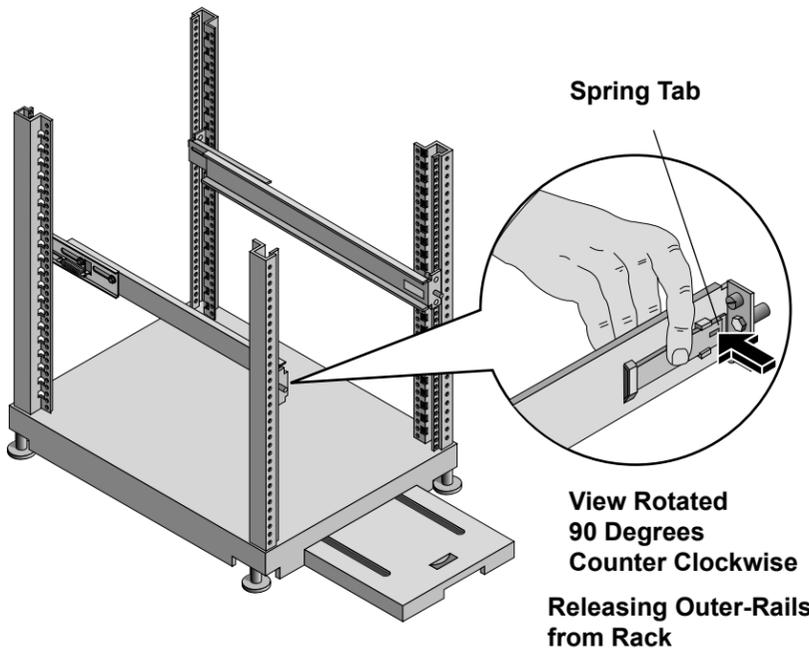
To prevent the rack from rolling while you mount the HP Netserver, ensure the leveler screws on the rack's lower four corners are in firm contact with the floor.



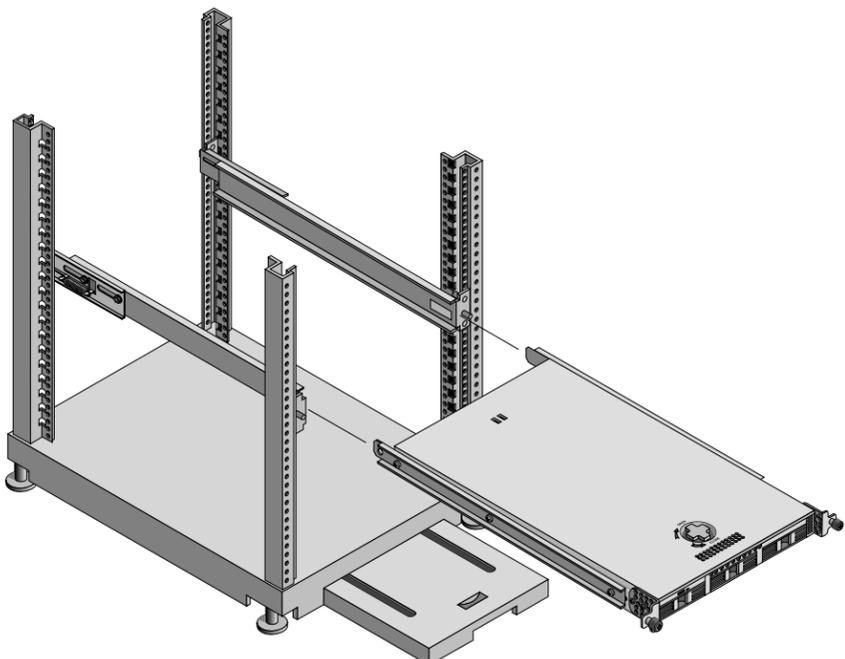
## 4-Post Rack Installation (Continued)



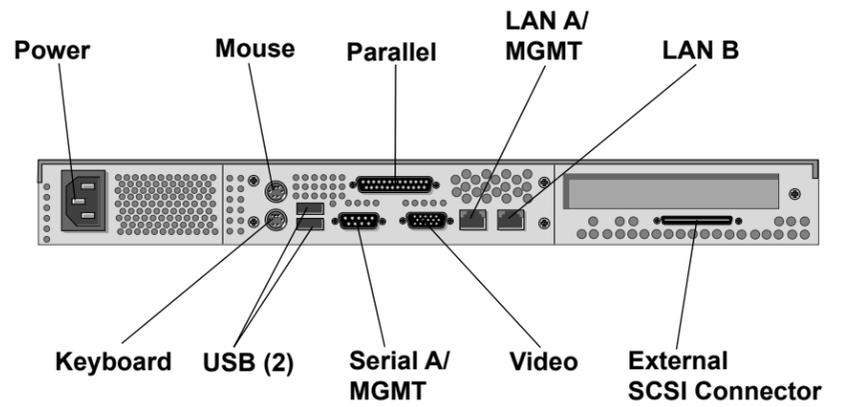
**NOTE** □ □ The pins on both ends support the outer-rails in the rack □ □ and the flat spring tab in front of the outer-rail secures it □ □ in the rack. See Releasing Outer-Rails from Rack.



**NOTE** □ □ The HP Netserver weighs 32 lbs (14.5 kg) fully loaded. □ □ It may be helpful to use two people when placing the □ □ Netserver into the rack.



## Attaching Cables



## Obtaining Additional Documentation

For additional documentation, refer to your HP Netserver LP 1000r Online Documentation CD-ROM. You can also access additional information and documentation from HP's external web site, either by connecting directly or through your Online Documentation CD-ROM.