To install a board you will need:

- Phillips #1 screwdriver
- Grounding wrist strap

A padded ESD mat is required if you perform any work on the board. The padding prevents breakage of parts on the bottom of the board.

Hot-Plug Feature

The hot-plug feature enables you to insert a new board into a powered-on system while the system is supplied with electrical power. If a working board is added to a powered-on system with the hot-plug feature, the system cannot use the new board until the system is rebooted.

> ⚠ **Caution** – If the message: NOTICE: Hot Plug not supported in this system is displayed during boot, do NOT attempt to remove or install a board while the system is powered-on or damage to the hardware will occur.

> ⚠ **Caution** – Do not hot-plug an Enterprise system component if the peripheral power supply (PPS), in the 6x00/5x00/4x00 system, or the peripheral power supply/AC input (PPS/AC), in the 3x00 system, is inoperative. These power supplies provide the precharge voltage required for hot-plug. Use prtdiag(1M) to determine the peripheral power supply status.
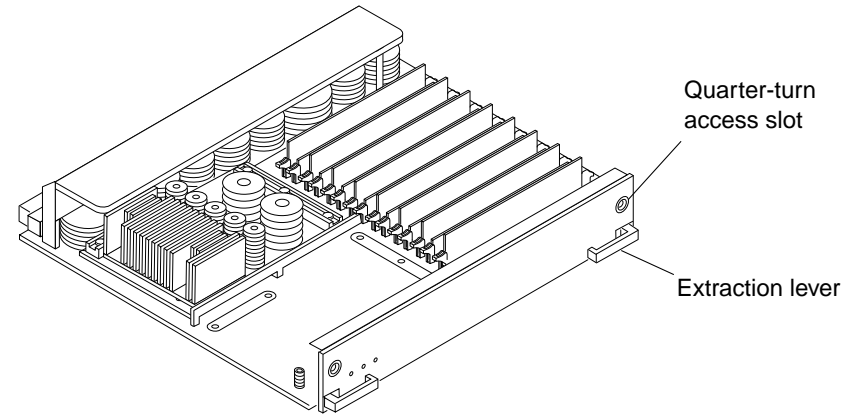
Removing a Board

> **Note** – All empty board slots must have a filler panel (Enterprise 5x00/4x00/3x00 systems) or a load board (Enterprise 6x00 system) installed to ensure proper cooling. For further information on load boards or filler panels, refer to your server systems reference manual.

1. **Ensure that the board is in low-power mode and ready for removal.**
   If the board is not in low-power mode, halt the system and turn off the power before proceeding. The board is in low-power mode if one of the following is true:

   - The three LEDs on the board are not lit (board has no power).
   - The outer two green LEDs are not lit and the middle yellow LED is lit.

> ⚠ **Caution** – Use a grounding wrist strap to prevent static damage.

2. **With a Phillips #1 screwdriver, turn the two quarter-turn access slots to the unlocked position (■).**

Quarter-turn access slot

Extraction lever

3. **Pull the ends of both extraction levers outward, then gently pull the board out of the card cage.**
   Do not let the components on the board catch on any surrounding surfaces as you pull the board.

> ⚠ **Caution** – The heatsinks on the board may be hot. Handle with care.

4. **Place the board on a padded ESD mat for servicing, or store the board in an antistatic bag.**

Installing a New Board

1. **Select a board slot.**
   Refer to your server systems reference manual for selection rules.
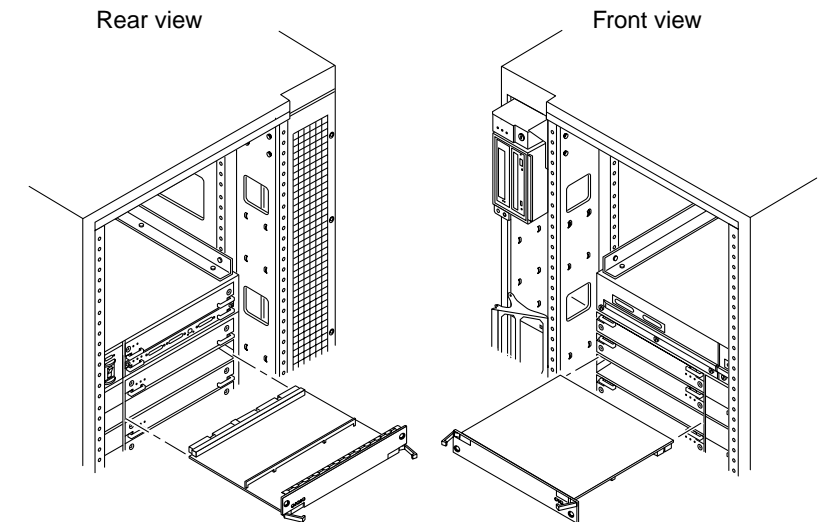
> ⚠ **Caution** – Use a grounding wrist strap to prevent static damage.

2. **Open the extraction levers by pulling the ends of both levers outward.**

3. **Insert the board partway into the card cage slot.**
   - For a rear slot in a 16-slot or 8-slot card cage, orient the board component-side up.
   - For a front slot in a 16-slot or 8-slot card cage, orient the board component-side down.

Rear view   Front view

- For a 4-slot or 5-slot card cage with vertical slots, orient the board with the component side to the right.

4. **Push the board into the card cage, then simultaneously press both extraction levers to seat the board on the centerplane.**

> ⚠ **Caution** – When inserting a board into slot 4 or slot 10 of a 16-slot card cage, lift the board slightly to avoid damage to the centerplane connectors.

> ⚠ **Caution** – Do not press on the board front panel to seat it—doing so will damage the connector pins.

Pushing both levers simultaneously avoids twisting the board and bending the connector pins.

5. **With a Phillips #1 screwdriver, turn the two quarter-turn access slots to the locked position (🔒).**

6. **If the system is running, look for a system message similar to the following example for a CPU/Memory board in slot 5:**

```
NOTICE: CPU Board Hotplugged into Slot 5
NOTICE: Board 5 is ready to remove
```

7. **Reboot the system now or schedule a later time to reboot when system disruption will be minimized.**
   The system cannot use the new board until the system is rebooted.

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Please include the part number of your document in the subject line of your email.

Sun™ Enterprise™ 6*x*00/5*x*00/4*x*00/3*x*00 Systems Board Installation Guide

Caution – The heatsinks on the board can be damaged by incorrect handling. Do not touch the heatsinks while installing or moving the board. Hold the board only by the edges. If a heatsink is loose or broken, obtain a replacement board.

Caution – The heatsinks on the board can be damaged by improper packaging. When storing or shipping the board, ensure that the heatsinks have sufficient protection.

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