

Sun Fire™ E6900 and Sun Fire 6800 Systems Repeater Board Installation Guide

Firmware Minimum Requirements

Sun Fire E6900 systems and Sun Fire 6800 systems require firmware level 5.20.1 or subsequent compatible versions. Install new hardware upgrades only after you have upgraded the firmware.

Preparing to Install New Repeater Boards



Caution – Do not mix old repeater boards with new repeater boards (Repeater Board V2).

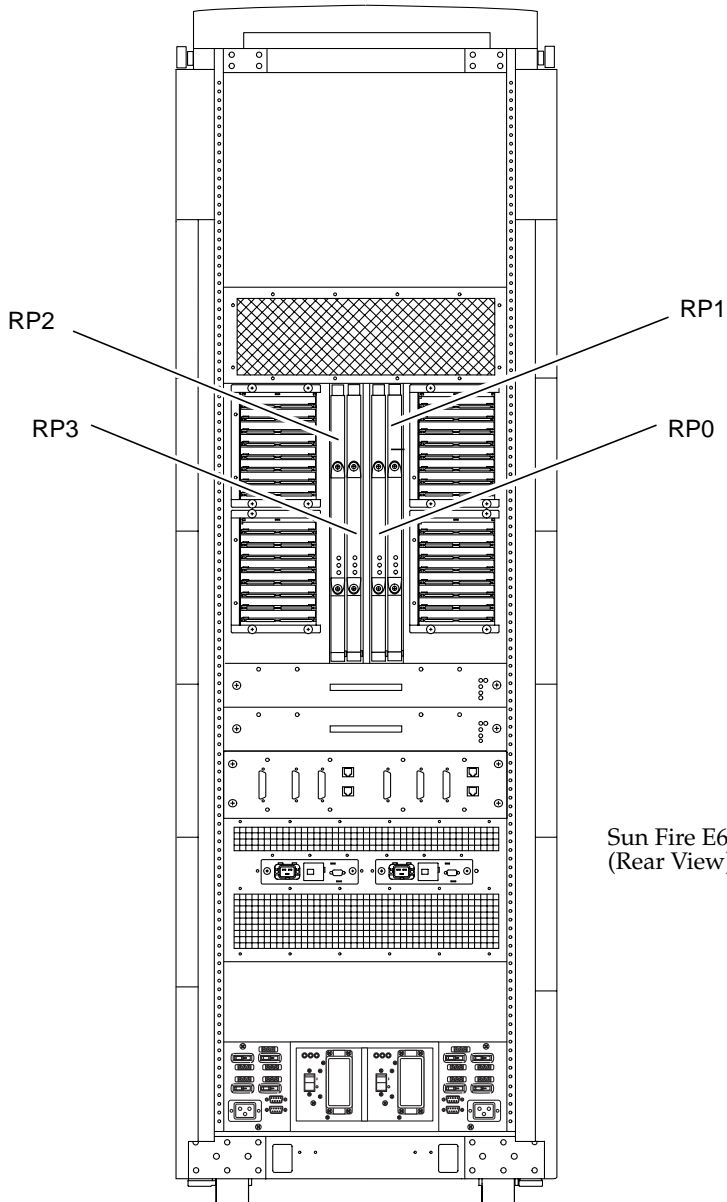
♦ Use the `showboards` command to determine current repeater board type.

```
schostname:SC> showboards
```

New repeater boards will appear as Repeater Board V2 with the `showboards` command.

Location of a Repeater Board

In the Sun Fire E6900 and Sun Fire 6800 systems, repeater boards work in pairs: RP0 with RP1, and RP2 with RP3. Populate repeater board pairs from right to left, beginning with RP1 and RP0.



Sun Fire E6900 and Sun Fire 6800 Systems
(Rear View)

Preparing to Remove and Install a Repeater Board



Caution – The system needs to be powered off for this procedure. Arrange with the system administrator for a scheduled system shutdown.



Caution – The repeater boards have surface-mount components that can be broken if you flex the boards.

To minimize the amount of board flexing, observe the following precautions:

- Hold the board only by the handle and the edges near the middle of the board, where the board stiffener is located. Do not hold the board *only* at the ends.
- When removing the board from an antistatic bag, keep the board vertical until you lay it on the Sun ESD mat.
- Do not place the board on a hard surface. Use a cushioned antistatic mat. The board connectors and components have very thin pins that bend easily.
- Do not use an oscilloscope probe on the components. The soldered pins are easily damaged or shorted by the probe point.
- Transport the board in an antistatic bag.

Removing a Repeater Board



Caution – The system is sensitive to static electricity. To prevent damage to the unit, connect an antistatic wrist strap or foot strap between you and the system.

1. Halt the domain.

Refer to the *Sun Fire Midrange Systems Platform Administration Manual* for complete procedures on halting the domain.

2. Power off the system.

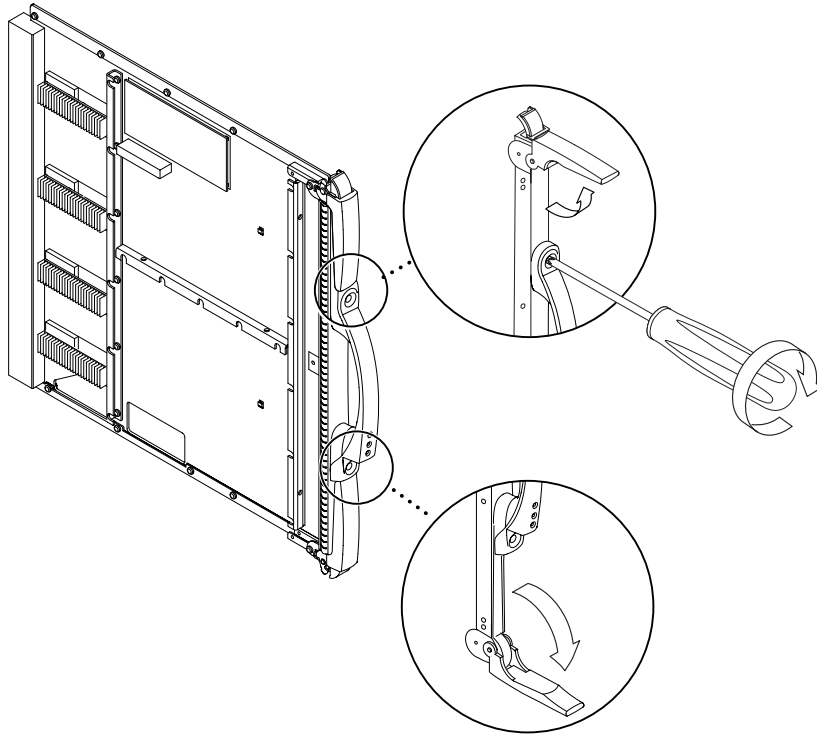
Refer to the *Sun Fire Midrange Systems Platform Administration Manual* for complete procedures on powering off the system.

3. Attach a wrist strap or foot strap and connect the ESD strap to the system.

Place a grounded ESD mat close to the system.

4. Use a No. 2 screwdriver to unlock the ejectors on the repeater board.

The ejectors will pop out slightly.



5. **Rotate the ejector levers simultaneously until they are 90 degrees from the board (straight out).**
This action unseats the board from the connector.
6. **Remove the board from the card cage by grabbing the handle and sliding the board along the track until the board is out of the card cage.**
7. **Place the board on an ESD mat.**
8. **Repeat Steps 4-7 for the remaining repeater boards.**

Installing a Repeater Board



Caution – The system is sensitive to static electricity. To prevent damage to the unit, connect an antistatic wrist strap or foot strap between you and the system.

1. **Inspect the connector on the new repeater board being installed.**
 - a. **Remove the connector protective cover.**
 - b. **Check to see if the plastic is deformed or damaged, including both the pin holes and the fins.**
 - c. **Insure there are no major (out of the normal) gaps between each pin row.**
2. **Inspect the connector on the centerplane for bent pins or other damage.**
3. **Attach a wrist strap or foot strap and connect the ESD strap to the system.**
Place a grounded ESD mat close to the system.
4. **Make sure that the ejector levers are in the open position.**
They should be 90 degrees straight out from the board.

Note – *Do not force* any board into a slot; it can cause damage to the board and system. The board should insert and seat smoothly. If it binds, remove the board and inspect the card cage slot for any obvious obstructions.

5. **Gently insert the repeater board into the grooves of the proper slot until the board stops.**
6. **Simultaneously rotate both ejectors until they are in the closed position, flush with the board.**
When properly installed, the ejectors will lock automatically.
7. **Repeat Steps 1-6 for the remaining three new repeater boards.**
8. **Power on the system.**
Refer to the *Sun Fire Midrange Systems Platform Administration Manual* for complete procedures on powering on the system.
9. **Initialize the domain.**
Refer to the *Sun Fire Midrange Systems Platform Administration Manual* for complete procedures on initializing a domain.

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