Sun Fire™ System Controller Board, Version 2 (Enhanced Memory) Installation Guide

Sun Fire E6900/E4900 Systems

Sun Fire 6800/4800 Systems

Version 2 of the Sun Fire™ System Controller board has increased capacities of flash memory, dynamic memory, and non-volatile memory.

Note – Do not mix old and new versions of the System Controller (SC) board in the same system. If a newer version of SC board fails over to an older version of SC board, the larger quantity of data on the failed SC board can overload the older version SC board, causing SC software features to terminate unexpectedly.

⚠ **Caution –** The chassis AC power cord(s) must remain connected to ensure a proper ground.

⚠ **Caution –** To avoid damaging internal circuits, do not disconnect or connect any cable while the power is applied to the system.

⚠ **Caution –** The SC board and its modules have surface-mount components that can be broken by flexing the board.

Location of the System Controller Boards

System	Slot Numbers	Slot Location
Sun Fire™ E6900 system	SSC0 (Master) and SSC1 (Redundant controller)	Front—bottom and top
Sun Fire™ E4900 system	SSC0 (Master) and SSC1 (Redundant controller)	Rear—bottom and top
Sun Fire™ 6800 system	SSC0 (Master) and SSC1 (Redundant controller)	Front—bottom and top
Sun Fire™ 4800 system	SSC0 (Master) and SSC1 (Redundant controller)	Rear—bottom and top

System Controller Board Default Jumper Settings

Jumper	Pins	Settings	Description
J1301	2-3	In	Select FPROM (default)
J1303	1-2	In	FPROM write enable (default)
J2303	1-2	In	RS-232 (default)
J2304	1-2	In	RS-232 (default)

Hot-Plug Installations

The procedures on the following pages include shutting down the system. However, it is possible to hot-plug the System Controller (SC) board if:

■ You are adding a spare SC board to a system that is currently configured with only one SC board.

■ You are replacing one SC board in a dual SC board system.

■ You are upgrading both SC boards in a dual SC board system. Note that in this case, hot-plugging the boards involves:

  ■ First, replacing the spare SC board.
  ■ Next, forcing a failover to make the spare SC board the main SC board.
  ■ Finally, replacing the other SC board.

For details about hot-plugging SC boards, refer to the system administration manual for your product.

Note – If you are installing multiple hardware upgrades at the same time, it might be faster and easier to shut down the system rather than attempt to hot-plug multiple boards and assemblies.
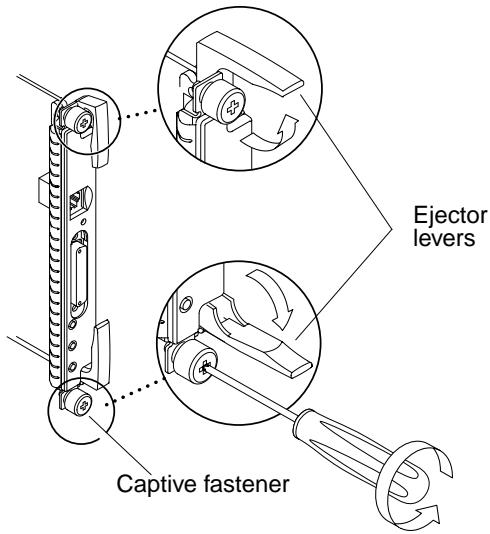

Installing a System Controller Board

1. **Power off the system.**

   For complete powering on and off procedures, refer to the powering on and off guide for your product, OR refer to the system administration manual for your product.


Note – If you prefer to hot-plug the SC board, refer to the system administration manual for your product for hot-plug procedures.

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2. **Attach a wrist strap or foot strap, and connect the strap to the system.**

3. **Place a grounded ESD mat close to the system.**

4. **Remove the filler board and save it.**

5. **If there is a protective cover on the connector of the SC board, remove the cover.**

6. Open the board ejector levers.

Ejector
levers

Captive fastener

7. Align the board and slide it into the card cage slot.
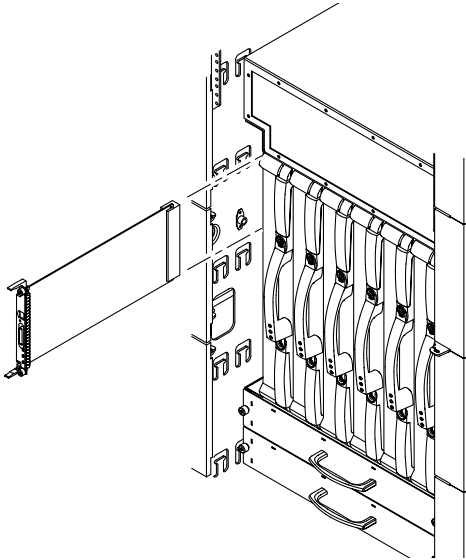
⚠️ **Caution –** DO NOT FORCE any board into a slot; this can cause damage to the board and system. The board should insert and seat smoothly. If it binds, remove the board and inspect the card cage slot for any obvious obstructions.

8. **Simultaneously push inward on both board ejector levers to seat the board.**

9. **Tighten the captive screws by using a Phillips No. 2 screwdriver.**

10. **Connect the proper cable to the board front panel.**

11. **Power on the system.**

Removing a System Controller Board

1. **Power off the system.**
   For complete powering on and off procedures, refer to the powering on and off guide for your product, OR refer to the system administration manual for your product.

Note – If you prefer to hot-plug the SC board, refer to the system administration manual for your product for hot-plug procedures.

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2. **Attach a wrist strap or foot strap, and connect the strap to the system.**

3. **Place a grounded ESD mat close to the system.**

4. **Disconnect the serial or network cable from the board front panel.**

5. **Loosen the two captive screws on the SC board front panel using a Phillips No. 2 screwdriver.**
   These screws are spring-loaded.

6. **Pull outwards on the board ejector levers to unseat the board.**

7. **Remove the board.**

8. **Install a filler board or a new SC board.**

9. **Power on the system.**

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