



SBus Blank Filler Panel and
SBus Card Thermal Baffle
Installation Guide



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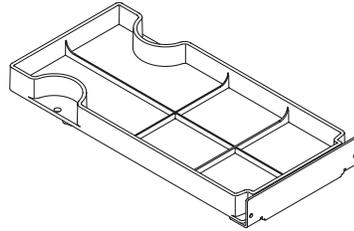
Installation Guide

The SBus Blank Filler Panel (1099A) and the SBus Card Thermal Baffle (1098A) are designed to improve the thermal conditions in the SBus+ I/O boards and Graphics+ I/O boards when following the instructions in this document.

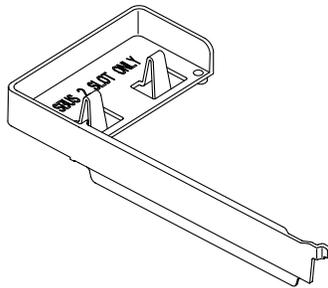
Use the rules on page 5 of this document when the following conditions exist:

- Any new Enterprise 6500, 5500, or 4500 systems with any combination of three or more SBus+ or Graphics+ I/O boards requires the SBus Blank Filler Panel or SBus Card Thermal Baffle in all the SBus+ or Graphics+ I/O boards.
- Any Enterprise 6500, 5500, or 4500 systems with two or more SBus+ or Graphics+ I/O boards in the same cabinet with multiple servers and multiple A5x00 storage devices should have the SBus Card Thermal Baffle or SBus Blank Filler Panel in all SBus+ and Graphics+ I/O boards.

- It is recommended that any installed base Enterprise 6500, 5500, 4500 systems with SBus+ or Graphics+ I/O boards, and operating above desired thermal conditions, use the SBus Blank Filler Panel and SBus Card Thermal Baffle.



SBus Blank Filler Panel



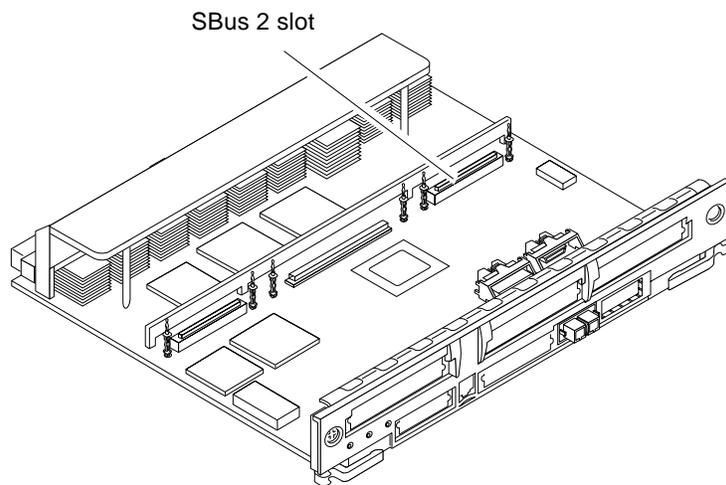
SBus Card Thermal Baffle

Rules When To Use the SBus Card Thermal Baffle and/or SBus Blank Filler Panel

The following rules apply when using the SBus Blank Filler Panel and SBus Card Thermal Baffle:

- The SBus Blank Filler Panel can be used in the SBus+ or Graphics+ I/O board. The SBus Card Thermal Baffle can only be used in the SBus+ I/O board.
- The SBus Blank Filler Panel occupies only the SBus 2 slot on an SBus+ or Graphics+ I/O board. No SBus card can be used in that slot.
- The SBus Card Thermal Baffle can only be used in the SBus 2 slot and only in conjunction with an SBus card.
- All empty SBus+ I/O boards should have the SBus Blank Filler Panels installed in the SBus 2 slot. No SBus cards can be used in this slot.
- Any SBus+ I/O board with SBus cards configured in the board must have the first SBus card configured in the SBus 2 slot with the SBus Card Thermal Baffle. If there is more than one card, the remaining cards can be placed in any remaining SBus slot.
- All Graphics+ I/O boards, empty or not, should have an SBus Blank Filler Panel installed in the SBus slot 2.

For example, a system with any combination of SBus+ or Graphics+ I/O boards does not require the SBus Blank Filler Panel and SBus Card Thermal Baffle. A system with three SBus+ or Graphics+ I/O boards requires all three boards to have either the SBus Card Thermal Baffle or SBus Blank Filler Panel, as instructed above. Any installed base system can use the SBus Blank Filler Panel or SBus Card Thermal Baffle if fewer than three SBus+ or Graphics+ I/O boards are in the systems and operating at higher than desired thermal conditions.



Preparing to Install

The following tools are required:

- Screwdriver, Phillips No. 1
- Grounding wrist strap
- A padded ESD mat

Installing the SBus Blank Filler Panel

Installation instructions for the SBus Card Thermal Baffle follow those of the SBus Blank Filler Panel.

Note – The following procedures must be performed by a Sun certified technician.

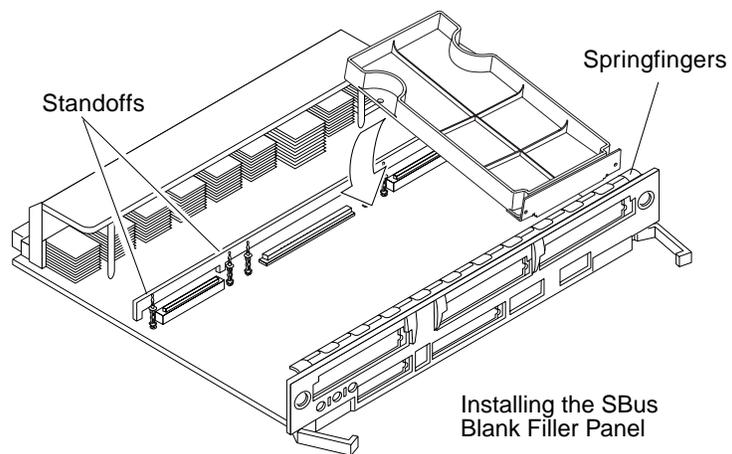
1. **Remove the applicable I/O+ board(s).**
 - a. **Follow the procedures in Section 4.6.3 “Removing a Board” in the *Sun Enterprise 6500/5500/4500 Systems Reference Manual*.**
 - b. **For Sun Enterprise 6500/5500/450x systems that have been configured to support dynamic reconfiguration, refer to Chapter 3 of the *Sun Enterprise 6x00,5x00,4x00, and 3x00 Systems Dynamic Reconfiguration User’s Guide* to disable a**

board before removing the applicable I/O+ board(s). Refer to the sun.com web site for more information on dynamic reconfiguration.

- 2. If there is an SBus card that needs to be removed from the SBus 2 slot of an I/O+ board, follow the procedures in Section 4.6.5.2, “Removing an SBus Card” in the *Sun Enterprise 6500/5500/4500 Systems Reference Manual*.**

Note – Save the screws that are removed in these procedures for installation of the SBus Blank Filler Panel.

- 3. Hold the SBus Panel at an angle and guide the face plate under the springfingers and against the rear face of the I/O+ board front panel.**



- 4. Place the SBus Panel over the two standoffs and press it firmly but gently down until it is fully seated.**

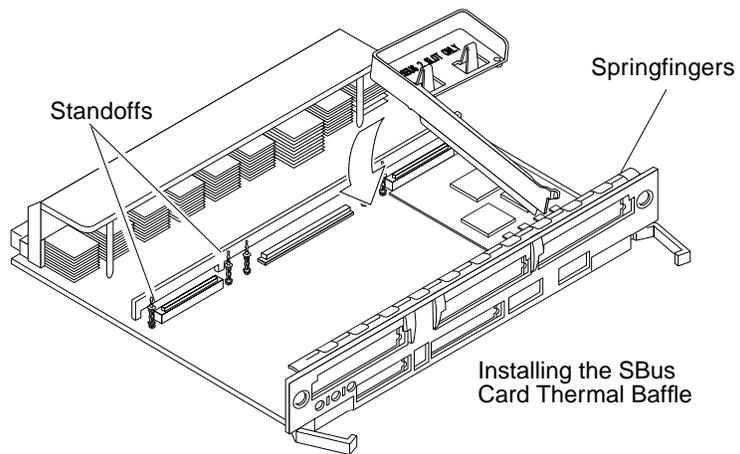
5. **Press each corner to ensure that the SBus Panel rests on the collar of the standoff then press down on the tip of each standoff to lock the panel in place.**
6. **Replace and tighten the back panel screws to secure the SBus Panel to the I/O+ board back panel.**
7. **Replace the applicable I/O+ board(s).**
 - a. **Follow the procedures in Section 4.6.4 “Installing a Board” in the *Sun Enterprise 6500/5500/4500 Systems Reference Manual*.**
 - b. **For Sun Enterprise 6500/5500/450x systems that have been configured to support dynamic reconfiguration, refer to Chapter 3 of the *Sun Enterprise 6x00,5x00,4x00, and 3x00 Systems Dynamic Reconfiguration User’s Guide* to enable a board. Refer to the sun.com web site for more information on dynamic reconfiguration.**

Removing the SBus Blank Filler Panel

1. **Remove the applicable I/O+ board(s).**
 - a. **Follow the procedures in Section 4.6.3 “Removing a Board” in the *Sun Enterprise 6500/5500/4500 Systems Reference Manual*.**
 - b. **For Sun Enterprise 6500/5500/450x systems that have been configured to support dynamic reconfiguration, refer to Chapter 3 of the *Sun Enterprise 6x00,5x00,4x00, and 3x00 Systems Dynamic Reconfiguration User’s Guide* to disable a board before removing applicable I/O+ board(s). Refer to the sun.com web site for more information on dynamic reconfiguration.**
2. **Remove the two screws that secure the panel to the back panel.**
Save the screws for installation of a replacement SBus card or filler panel.
3. **Unlock the SBus Panel by pulling up the tips of the two standoffs.**
4. **Hold the panel by the edges near the connector and gently rock the panel back and forth to loosen it from the socket.**
5. **Set aside the SBus Blank Filler Panel for future use.**

Installing the SBus Card Thermal Baffle

- 1. Remove the applicable I/O+ board(s).**
 - a. Follow the procedures in Section 4.6.3 “Removing a Board” in the *Sun Enterprise 6500/5500/4500 Systems Reference Manual*.**
 - b. For Sun Enterprise 6500/5500/450x systems that have been configured to support dynamic reconfiguration, refer to Chapter 3 of the *Sun Enterprise 6x00,5x00,4x00, and 3x00 Systems Dynamic Reconfiguration User’s Guide* to disable a board before removing applicable I/O+ board(s). Refer to the sun.com web site for more information on dynamic reconfiguration.**
- 2. Install an SBus card in the SBus 2 slot of an I/O+ board by following the procedures in Section 4.6.4., “SBus Card” in the *Sun Enterprise 6500/5500/4500 Systems Reference Manual*.**
- 3. Hold the SBus Baffle at an angle and guide the arm under the springfingers so that the baffle arm fits over the host SBus card face plate.**



- 4. Place the SBus Baffle over the two standoffs and press it firmly but gently down until it is fully seated.**

5. **Replace the applicable I/O+ board(s).**
 - a. **Follow the procedures in Section 4.6.4 “Installing a Board” in the *Sun Enterprise 6500/5500/4500 Systems Reference Manual*.**
 - b. **For Sun Enterprise 6500/5500/450x systems that have been configured to support dynamic reconfiguration, refer to Chapter 3 of the *Sun Enterprise 6x00,5x00,4x00, and 3x00 Systems Dynamic Reconfiguration User’s Guide* to enable a board. Refer to the sun.com web site for more information on dynamic reconfiguration.**

Removing the SBus Card Thermal Baffle

1. Remove the applicable I/O+ board(s).
 - a. Follow the procedures in Section 4.6.3 “Removing a Board” in the *Sun Enterprise 6500/5500/4500 Systems Reference Manual*.
 - b. For Sun Enterprise 6500/5500/450x systems that have been configured to support dynamic reconfiguration, refer to Chapter 3 of the *Sun Enterprise 6x00,5x00,4x00, and 3x00 Systems Dynamic Reconfiguration User’s Guide* to disable a board before removing applicable I/O+ board(s). Refer to the sun.com web site for more information on dynamic reconfiguration.
2. Grasp the end of the SBus Card Thermal Baffle and gently pull up.
3. Set aside the SBus Card Thermal Baffle for future use.
4. To remove the existing SBus card from the SBus 2 slot of an I/O+ board, follow the procedures in Section 4.6.5.2, “Removing an SBus Card” in the *Sun Enterprise 6500/5500/4500 Systems Reference Manual*.

5. **Replace the applicable I/O+ board(s).**
 - a. **Follow the procedures in Section 4.6.4 “Installing a Board” in the *Sun Enterprise 6500/5500/4500 Systems Reference Manual*.**
 - b. **For Sun Enterprise 6500/5500/450x systems that have been configured to support dynamic reconfiguration, refer to Chapter 3 of the *Sun Enterprise 6x00,5x00,4x00, and 3x00 Systems Dynamic Reconfiguration User’s Guide* to enable a board. Refer to the sun.com web site for more information on dynamic reconfiguration.**

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