

Sun Fire™ High-End Server Systems Hold-down Kit

This document describes how to update the doors and bolt high-end server systems to the floor.

Installing the Door Restraint brackets (4-Door Systems Only)

Note – Systems with a single cabinet door in front (and a single door in back) should have door restraint brackets pre-installed. If you have a system with a single cabinet door in the front continue to the Installing the Hold-down Brackets instructions to complete the installation.

1. **Unlock and open the cabinet door.**
2. **Pull down the upper hinge pin, lift the door off the lower hinge pin and remove the door.**

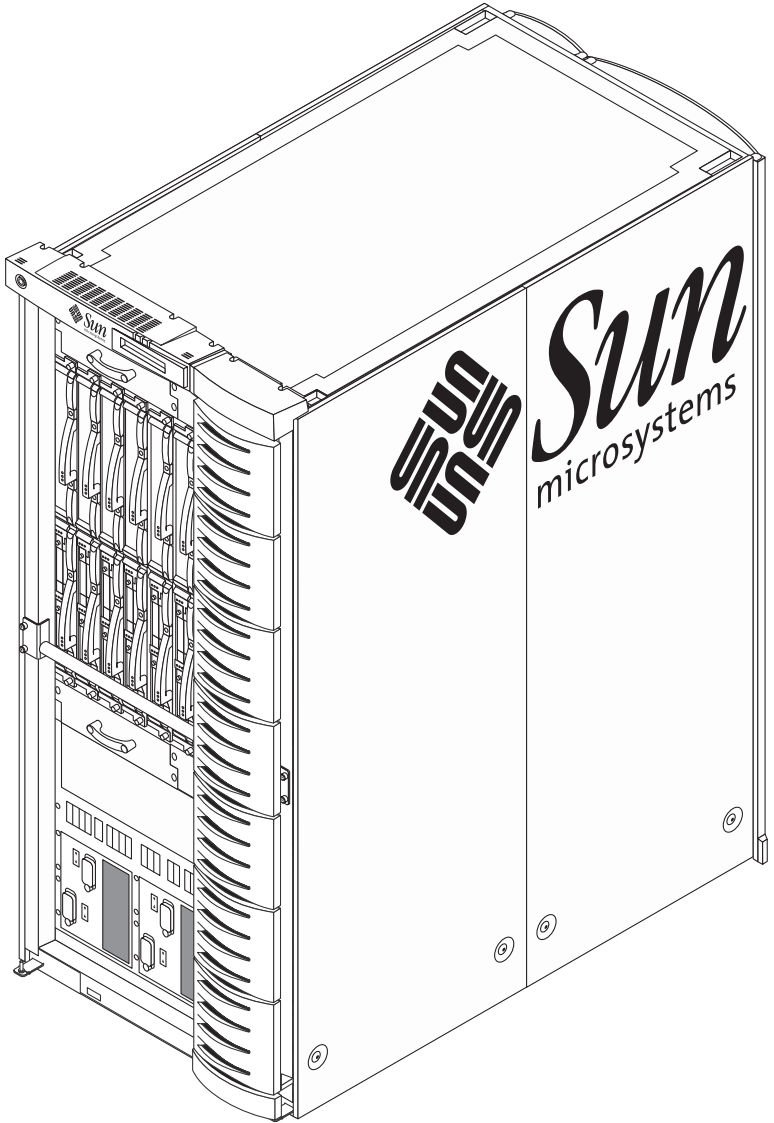
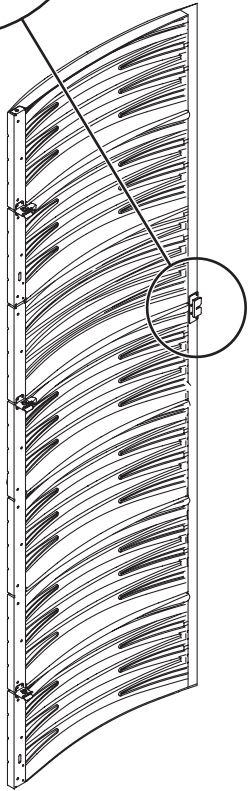
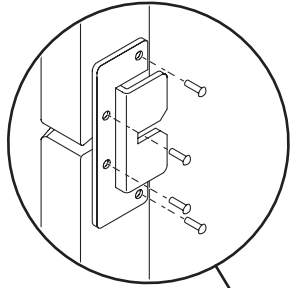


Caution – Do not perform Step 3 in the computer room. Drilling the metal door in the computer room could lead to metal contamination.

3. **Drill out the four rivets on the door that secure the door restraint bracket.**
Use a no. 30 or 1/8-inch drill bit.
4. **Secure the new door restraint bracket using the four POP rivets provided. See figure.**
The tool to secure the POP rivets is not provided.

Note – This new door restraint provides both vertical and horizontal stability so the cabinet door doesn't bend the upper and lower hinge brackets.

5. **Reinstall and lock the cabinet door.**
6. **Repeat Step 1 through Step 5 for the remaining cabinet doors.**



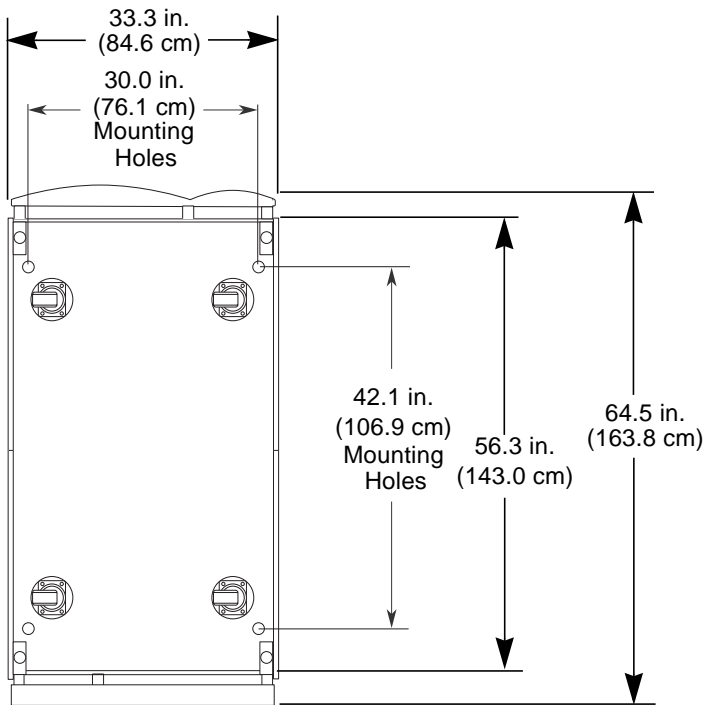
Installing the Hold-down Brackets

1. Determine mounting hole locations in the site floor.

Optimize system location based on air flow and structural requirements of the operating site. Use the diagram below for hole location reference.



Caution – Examine site blueprints to ensure that no pipes or wires run beneath the operating location.



2. Move the system away from the operating location to provide space for drilling.
3. Drill four mounting holes in the site floor in the locations determined in Step 1.

Note – Use a vacuum to prevent air contamination in the computer room while securing the bracket assemblies.

4. Move the system back to the operating location.

Note – NEBS Zone 4 earthquake bushings have been tested by Sun Microsystems for installation directly to a concrete floor. As the performance of connection systems onto reinforced raised floors can vary, a qualified structural engineer should be consulted prior to installation on a raised floor.

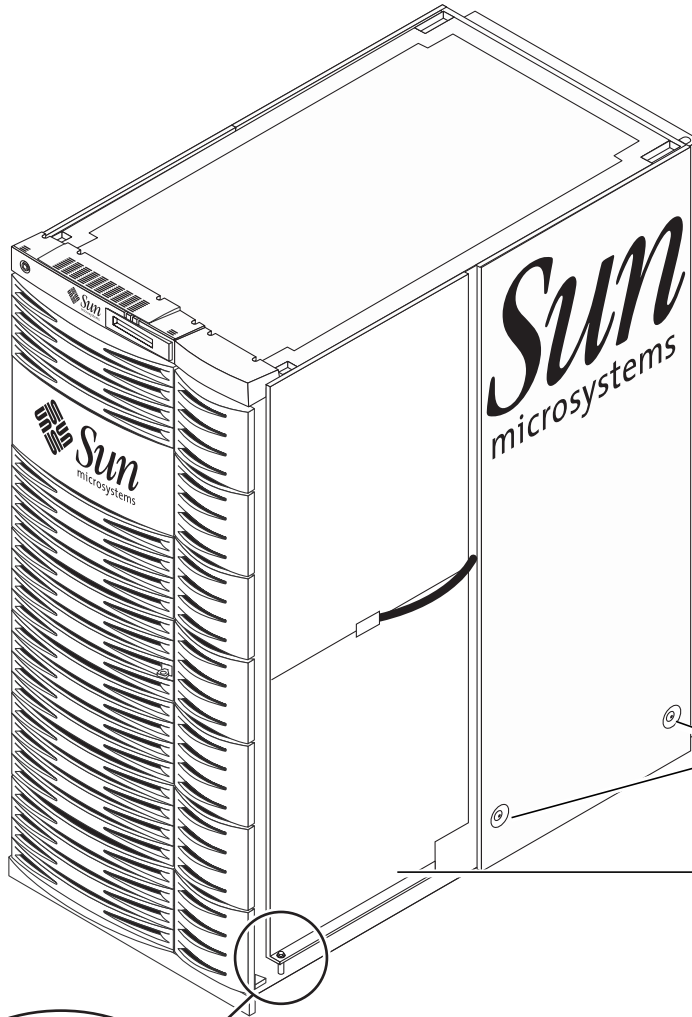
5. Remove the side panels.

- a. Loosen the two captive screws near the bottom of the side panel.
 - b. Lift the side panel off of the system.
 - c. Repeat Step a and Step b for all four side panels.
- 6. Raise each corner of the cabinet using the levelers, taking the weight of the system off of the casters, and allowing the NEBS Zone 4 earthquake bushing to fit loosely (large end down, notch facing outwards) between the mounting hole in the cabinet and the hole in the floor.**
- 7. Lower each corner of the cabinet using the levelers so that the weight of the system is shared between the casters and the levelers.**

Note – Because each operating location is unique, the bolts that secure the NEBS Zone 4 earthquake bushing to the site floor must be supplied by personnel at the site. High strength bolts (or alloy threaded rod) with a maximum diameter of 1/2 inch can be used.

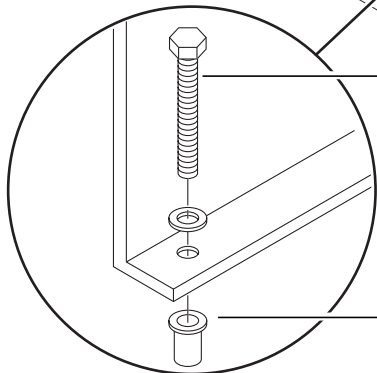
8. Secure the cabinet to the site floor.

- a. Secure the bolt/rod through the mounting hole in the cabinet, through the bushing, and into the mounting hole in the site floor.
 - b. Repeat for all four mounting holes.
- 9. Restore the side panels.**
- a. Hang the side panel on the protrusions at the top of the cabinet.
 - b. Tighten the captive screws to secure the side panel in place.
 - c. Repeat Step a and Step b for all four side panels.



Captive Screws
(side panel on)

Side panel removed



Customer supplied
bolt and washer

NEBS Zone 4
earthquake bushing

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