

Ultra™ Enterprise™ 450 Server and Sun™ Ultra™ 450 Workstation Rackmounting Guide



THE NETWORK IS THE COMPUTER™

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Preface

The *Ultra Enterprise 450 Server and Sun Ultra 450 Workstation Rackmounting Guide* shows you how to install your system in a Sun™ system or expansion cabinet, or other EIA-compliant rack enclosure.

Related Documents

The following documents contain topics that relate to the information in this guide:

- *Ultra Enterprise Expansion Cabinet Installation and Service Manual*
- *56-Inch Data Center Expansion Cabinet Installation Manual*
- *Ultra Enterprise 450 Server Owner's Guide*
- *Sun Ultra 450 Workstation Owner's Guide*

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Canada	1-800-873-7869	1-800-944-0661
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Holland	06-022-34-45	06-022-34-46
Japan	0120-33-9096	0120-33-9097
Luxembourg	32-2-720-09-09	32-2-725-88-50
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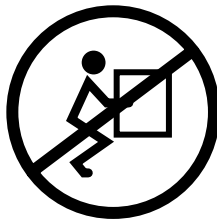
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How to Rackmount the Ultra Enterprise 450 Server or Sun Ultra 450 Workstation



Caution – The chassis is heavy. In the following procedures, two people are required to move the chassis. Two people are also required to align and install the rackmount tray and slide assemblies in the rack.



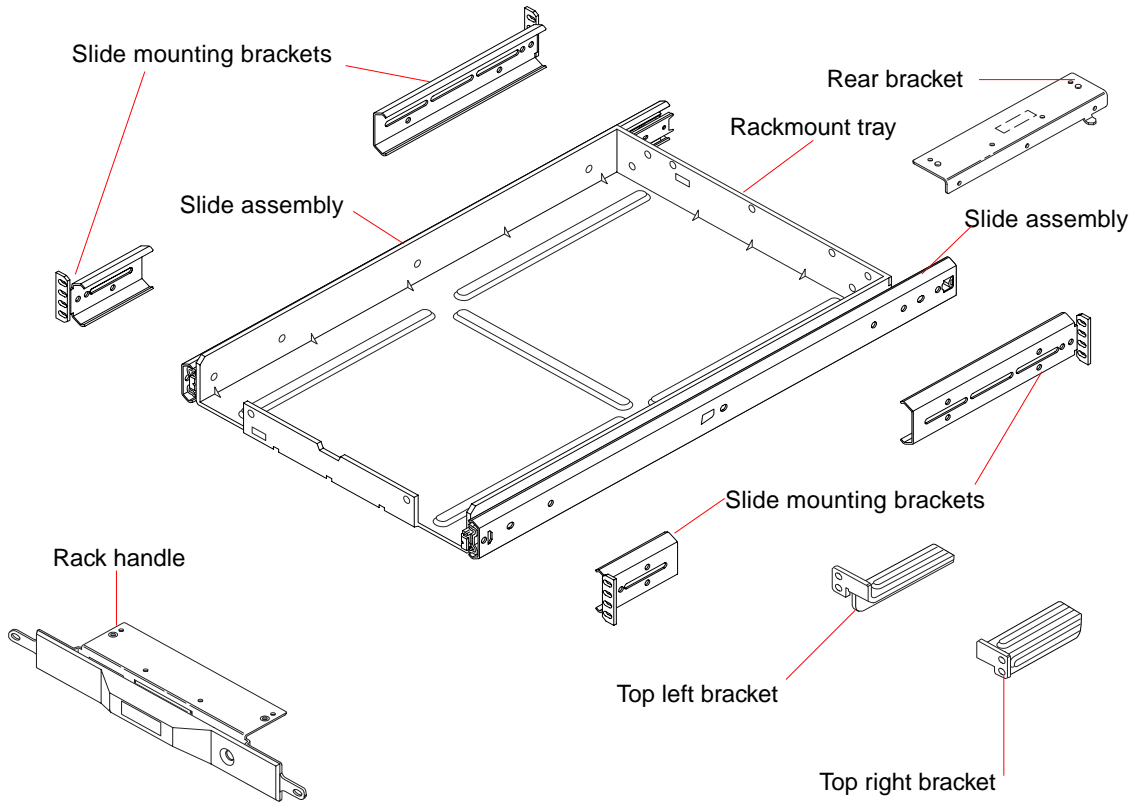
Caution – Install the chassis as low as possible in the rack enclosure. For best stability, do not install the chassis above equipment that weighs less than it does.



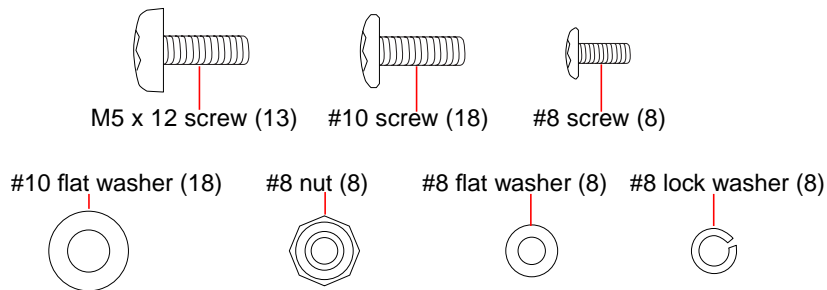
Caution – For proper ventilation, each Ultra™ Enterprise™ 450 server or Sun™ Ultra™ 450 workstation in the rack enclosure requires 92 square inches (593 square cm) of unrestricted airflow into the front of the system, and 97 square inches (626 square cm) of unrestricted exhaust port at the rear of the system. Maintain a minimum 1.5 inches (3.8 cm) clearance between the system and any front or rear doors.

Inventory

The rack-mounting kit contains the following parts.



The rack-mounting kit also contains the following screws, washers, and nuts, shown actual size.



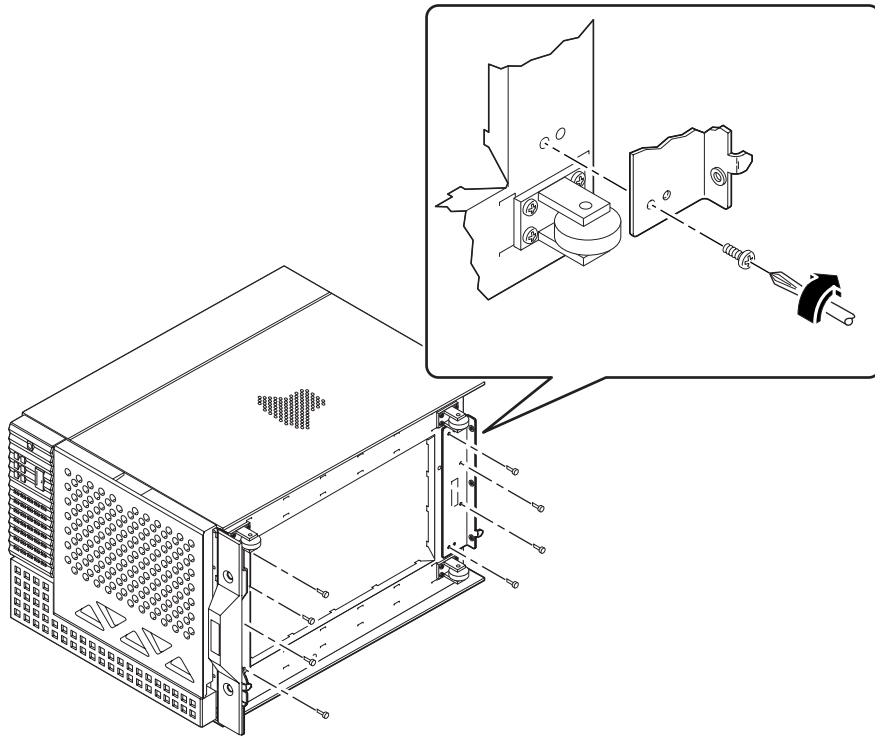
Installing the Rack Handle and Rear Bracket

1. **Disconnect all cables from the Ultra Enterprise 450 server or Sun Ultra 450 workstation chassis.**
2. **Carefully turn the chassis onto its left side.**

Do not lift the chassis using the plastic parts at the front of the chassis, or the side panels where they overhang at the rear.

Roll the system onto a solid surface that spaces the unit about 2 inches (5 cm) off the floor; for example, use a pair of wooden boards. Do not allow any of the weight to rest on the plastic parts at the front of the chassis.

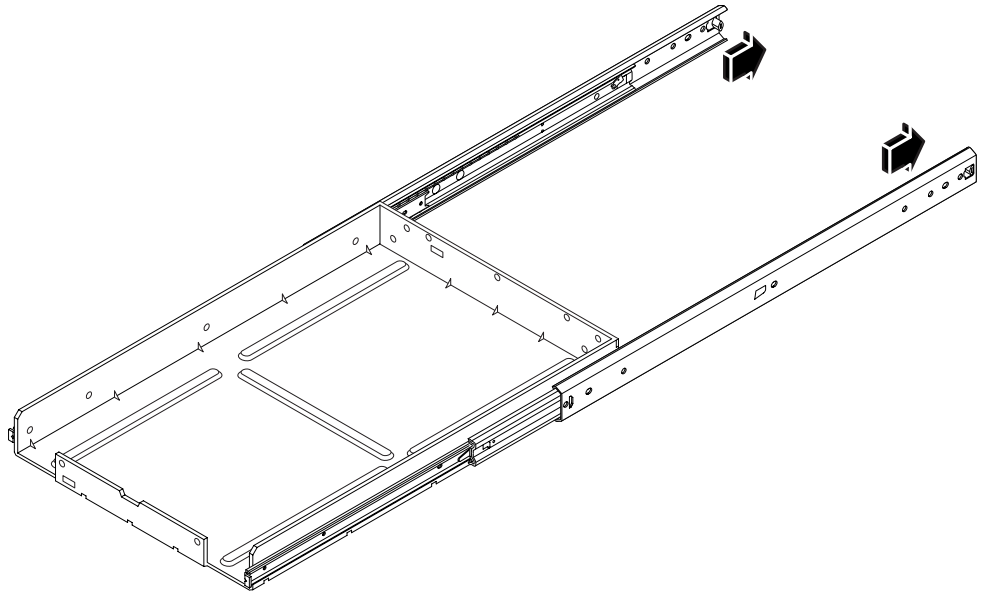
- 3. Install the rack handle and rear bracket onto the chassis bottom, as shown below.**
Use four M5 x 12 screws for each bracket.



Installing the Tray and Slide Assemblies

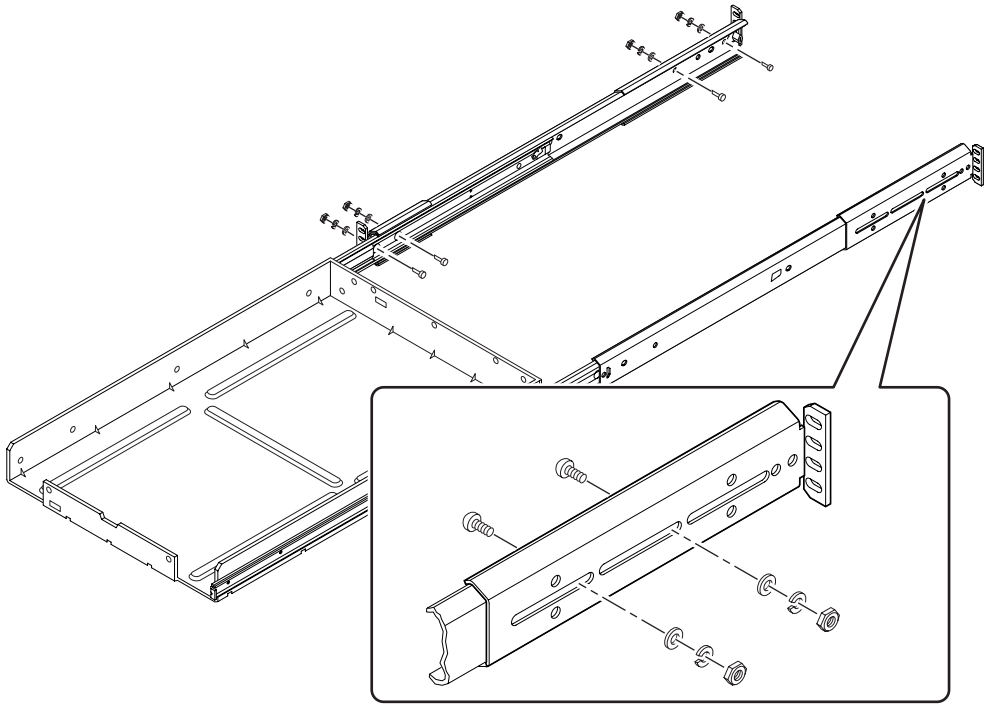
- 1. Remove the front door of the cabinet.**
- For a Sun expansion cabinet, lift the door off the hinge pins.
 - For a Sun server cabinet, pull off the front panel, then lift the door.

2. Extend the slides fully.

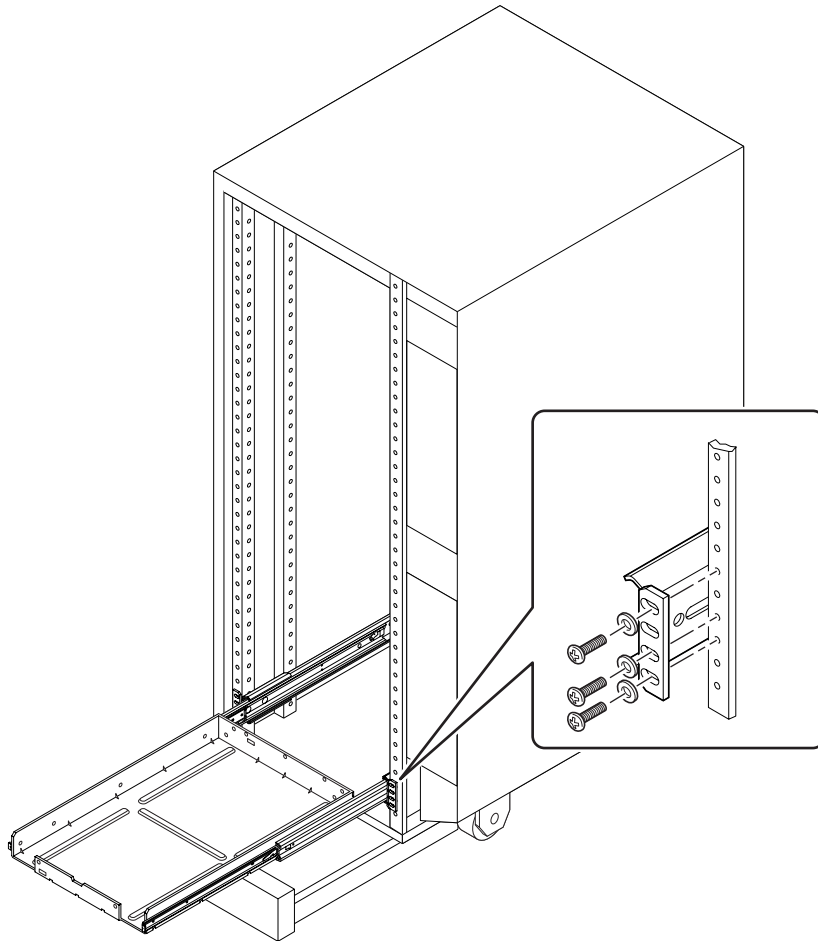


3. Attach one short slide mounting bracket to the front and one long slide mounting bracket to the rear of each slide.

Use two #8 screws, flat washers, lock washers, and nuts for each bracket. Use screw holes appropriate for the depth of the cabinet.



4. Attach the front and rear slide mounting brackets for each slide to the rack mounting rails, using #10 screws and flat washers.



Do not tighten the screws completely at this time. Be sure to use the correct positions in the rack. Locate each bracket with the bottom edge centered between the lowest 5/8-inch (1.6 cm) spacing on the rail. To mount the unit in an EIA standard rack, allow 14 unit spaces. To mount two units, allow 28 unit spaces.

Use a level to ensure that the rackmount tray is level front-to-back and left-to-right. Also, make sure that the rackmount tray is centered precisely between the left and right walls of the rack enclosure. This will ensure that the system chassis, when installed, slides freely within the rack enclosure without interference.

After leveling and centering the rackmount tray, tighten the front and rear bracket screws completely.

Installing the Chassis

1. Turn the chassis right side up.

Do not lift the chassis using the side panels or the plastic parts at the front of the chassis.

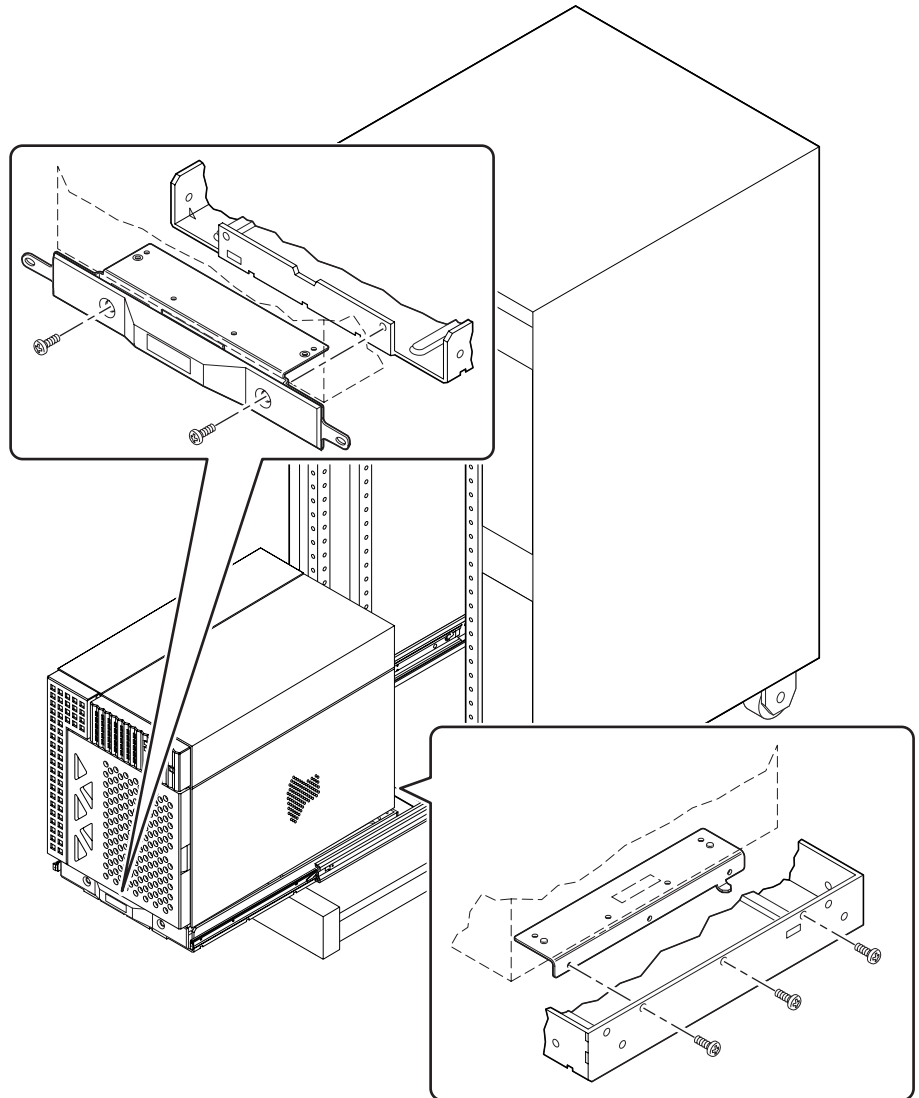
2. Extend the stabilizer legs and lower the leveling pads to ensure that the cabinet cannot move or tip forward when the rackmount tray is extended.



Caution – If your rack enclosure does not have stabilizer legs, secure it sufficiently to support the total weight of the system when it is fully extended.

3. Lift the chassis and position it on the tray assembly.

Alternatively, you can set the rear wheels on the tray assembly and then roll the unit into position.



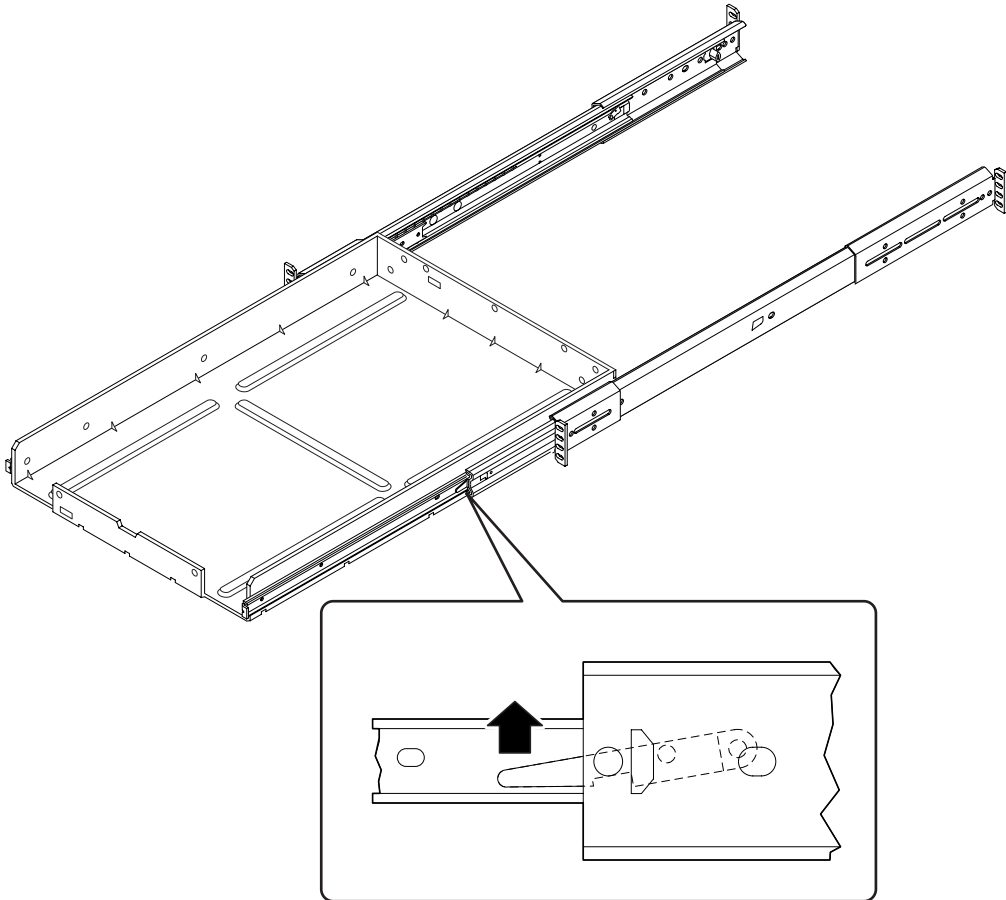
4. Secure the system chassis to the tray assembly using five M5 x 12 mm screws.

Use two screws for the rack handle at the front of the chassis and three screws for the rear bracket.

- 5. Press the locking mechanism on each slide and slide the system all the way to the rear of the enclosure.**

The levers for the left and right sides operate in opposite directions.

Check that the system is installed in the rack level and centered, so that it does not rub against the rails. Adjust if necessary, and retighten the screws.

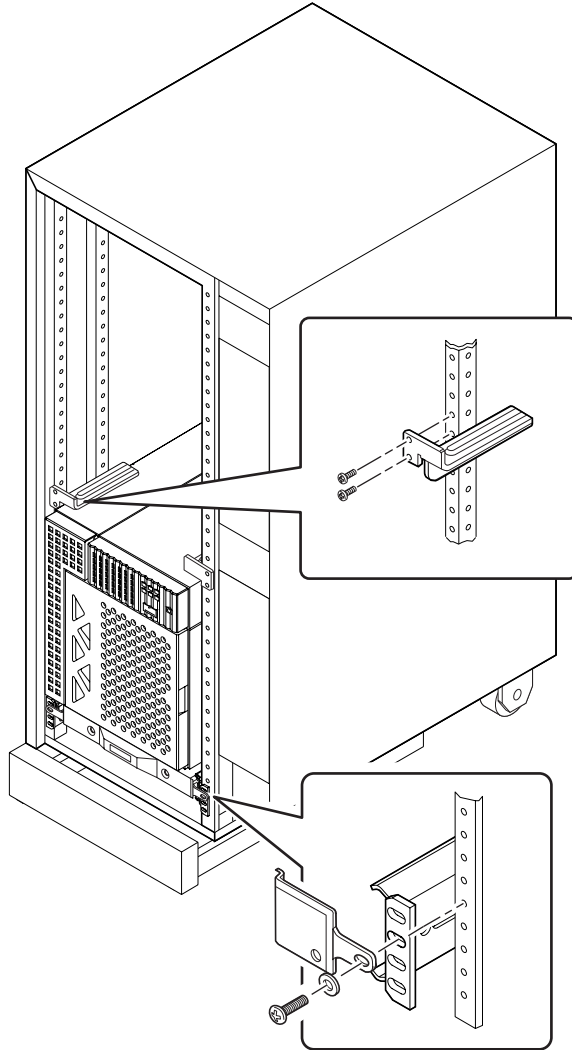


- 6. Secure the rackmount handle to the rack rails using two #10 screws and flat washers, as shown in the next figure.**

These screws secure the system inside the rack. To service the system, remove these screws and washers from the rackmount handle and slide the system out of the rack on its rails. After service is completed, slide the system all the way to the rear of the enclosure and reinstall the screws and washers.

7. Install the right and left top brackets using #10 screws and flat washers.

Install the brackets so that they are as close as possible to the top edges of the system; choose the closest holes in the rack that line up for this purpose. For each bracket, use two screws at the front of the cabinet.



8. If your rack has stabilizing legs, raise the leveling pads and retract the stabilizer legs.

9. Connect the chassis to the power sequencer.

See instructions supplied with the rackmount enclosure.

10. Route data cables as appropriate and connect them to the chassis.

11. Install the rack front door or front panels.

However, if the front door or front panels do not meet the airflow requirements on page 1, do not install them.