ThinkSystem SR950 **Rack Installation Instructions**



Review the documentation that comes with the rack cabinet for safety information, cabling information, and the following guidelines:

- See the server Setup Guide for the maximum room air temperature.
- Do not block any air vents; usually, 15 cm (6 in.) of air space in the rear and 5 cm (2 in.) in the front provides proper airflow.
- Do not leave any unused space within a rack open. Fillers must be used to prevent recirculation of warm air.
- Install your server only in a rack that has perforated front and rear doors or in a rack that is equipped with a rear door heat exchanger.
- Plan the device installation starting from the bottom of the rack cabinet.
- Install the heaviest device in the bottom of the rack cabinet.
- Do not extend more than one device out of the rack cabinet at the same time.
- Make sure that there is sufficient room in front of the front EIA flange to provide minimum bezel clearance of 50 mm (1.97 inches).
- Make sure that there is sufficient room behind the rear of the rear EIA flanges to provide for cable management and routing.
- Install the server in a rack that meets the following requirements:
 Minimum depth of 70 mm (2.76 in.) between the front mounting flange and inside of the front door.
- Minimum depth of 150 mm (5.9 in.) between the rear mounting flange and inside of the rear door.
- Minimum depth of 609.6 mm (24 in.) and maximum depth of 772.16 mm (30.4 in.) between the front and rear mounting flanges.

RACK SAFETY



Safety Statement 2

DANGER

- Always lower the leveling pads on the rack cabinet.
- Always install stabilizer brackets on the rack cabinet.
- Always install servers and optional devices starting from the bottom of the rack cabinet.
- Always install the heaviest devices in the bottom of the rack cabinet.



Safety Statement 4

CAUTION:

Use safe practices when lifting.



18-32 kg 39-70 lb



32-55 kg 70-121 lb



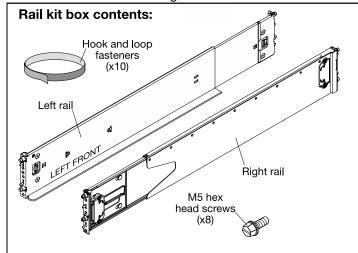
Safety Statement 26

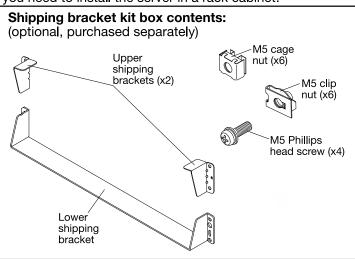
CAUTION:

Do not place any object on top of rack-mounted devices.



KIT PARTS: The following illustrations show the items that you need to install the server in a rack cabinet.

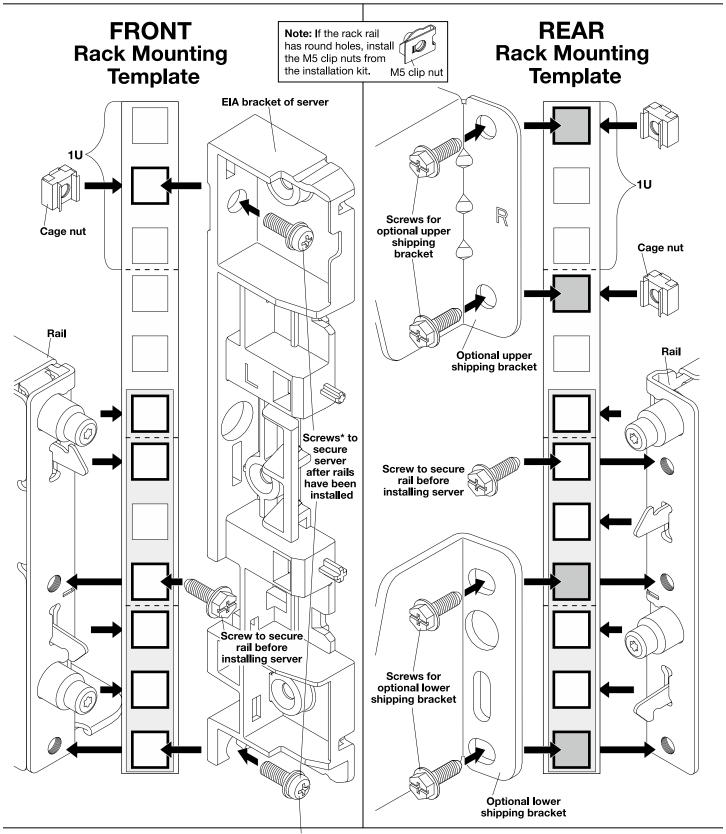




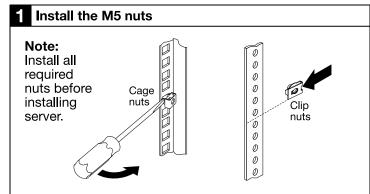
If any item is missing or damaged, contact your place of purchase.

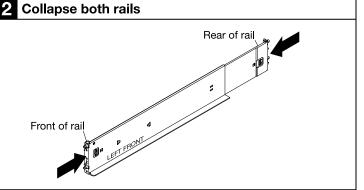
INSTALLING THE SERVER IN A RACK

Identify rack space for the server. Align the template with the holes in the rack, making sure the template does not overlap any installed devices.

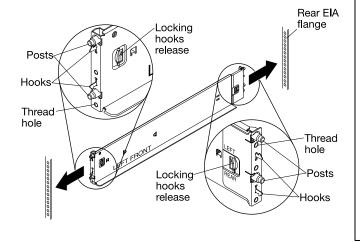


*Note: If you did not order the optional shipping bracket kit, use the M5 hex head screws that came with the rail kit.

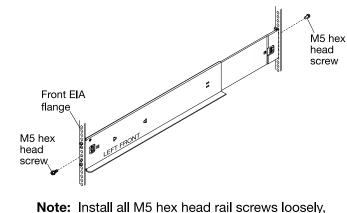




3 Install the rails in the rack



4. Secure the rails to the rack



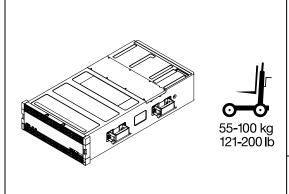
then tighten each screw to 30 in-lbs.

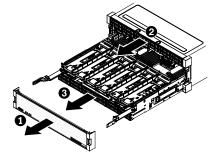
- 1. Align bottom edge of the rail with the bottom U where you want the server to rest and align rail posts with holes in the EIA flange.
- 2. Insert the rear rail posts through the holes in the rear EIA flange and engage the locking hooks.
- 3. Insert the front rail posts through the holes in the front EIA flange and engage the locking hooks.

Note:

If a rail is incorrectly aligned, press the locking hooks release on the rail to disengage the hooks; then, remove and reposition the rail.

5 Remove the server components



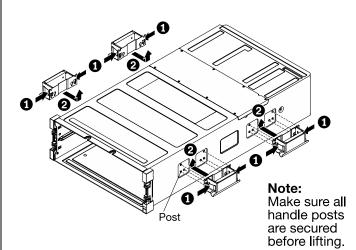




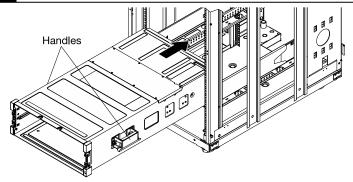
Note:

Remove the server components to reduce the server weight for easier installation (see the server documentation for instructions).

6 Attach the server handles

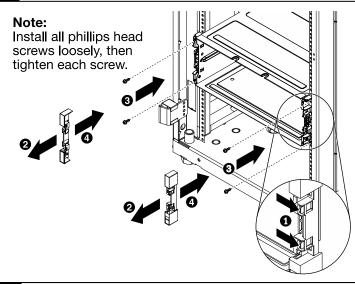


Install the server in the rack

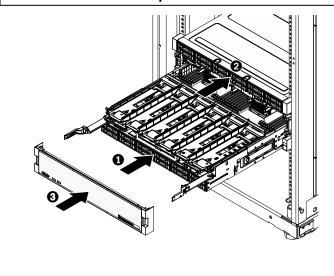


- 1. Place the rear edge of the server on the rails, slide it in slightly, and remove the rear handles.
- 2. Slide the server in until the front handles are near the EIA flange.
- 3. Remove the front handles and slide the server into the rack until it is fully seated against the EIA flange.

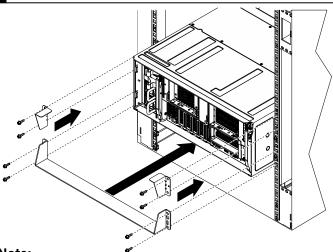
8 Secure the server in the rack



9 Reinstall the server components

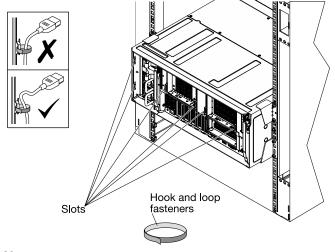


10 Install the shipping brackets (optional)



- Note:
- Install the brackets tight against the system.
 Install all M5 hex head screws loosely, then tighten each screw.
- Shipping brackets must be installed to transport the rack with the server installed.

11 Attach the fasteners for cable-management



Note:

- When routing cables, remember to allow some slack in the cables to avoid strain.
- Pull cables tight so they do not hang below the U space.

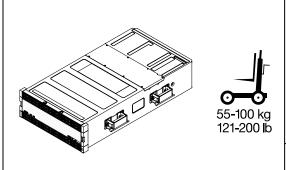
REMOVING THE SERVER FROM THE RACK

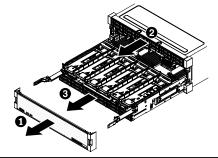
Prepare the server for removal

- 1. Turn the server off.
- 2. Disconnect the external cables.
- 3. Release the cables from the cable tie points on the server.

Remove the optional shipping brackets

3 Remove the server components



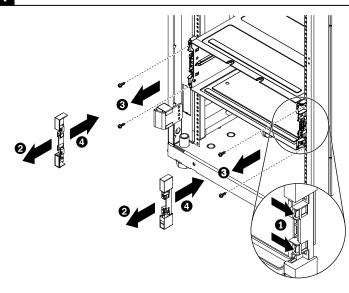




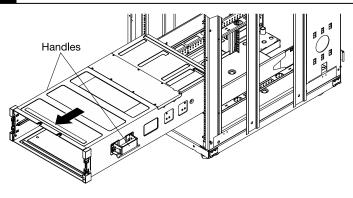
Note:

Remove the server components to reduce the server weight for easier installation (see the server documentation for instructions).

4. Unfasten the server from the rack

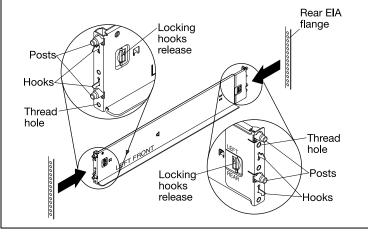


5 Remove the server from the rack



- 1. Slide the server forward and attach the front handles, once their location is exposed.
- 2. Carefully slide the server forward until the rear handle locations are exposed.
- 3. Attach the rear handles and lift the server from the rack.

Remove the rails and M5 nuts from the rack



- 1. Remove the screws from the rails (two screws per rail, one in the front and one in the rear).
- 2. Remove the rails from the rack by pressing the *locking hooks release* on the rail to disengage the hooks and sliding the posts out of the holes on the EIA flange.
- 3. Remove the M5 cage nuts or clip nuts from the rack.

Where to go for support

Links Lenovo ThinkSystem SR950 Information Center Lenovo Support - SR950 (Detailed information about installing hardware (Includes drivers and software) options and configuring the system) http://datacentersupport.lenovo.com/ http://thinksystem.lenovofiles.com/ products/servers/thinksystem/sr950/ help/topic/7X12/introduction.html **Lenovo Press** Lenovo Server Proven (Product guides and white papers) (Compatibility information) https://lenovopress.com/ http://support.lenovo.com/ us/en/serverproven Lenovo System x Server forums **Lenovo Product Security Advisories** https://forums.lenovo.com/ https://support.lenovo.com/ t5/Datacenter-Systems/ct-p/sv_eg us/en/product_security/home

