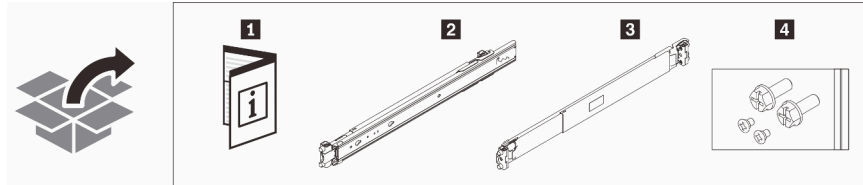


Rack Installation Guide

550/600mm Ball Bearing Rail Kit

Note: The rail kit you have might look slightly different from the illustrations in this document.

The rail package contains the following items:



1 Document	3 Right rail
2 Left rail	4 Two M6 screws and two M3.5 screws

Safety notice



CAUTION:
Make sure the rails support your server model and use safe practices when lifting



Read the guidelines first

Before you install the server in a rack, read the following guidelines:

- Two or more people are required to install 2U/4U or larger devices in a rack.
- Some illustrations might differ from your server. All types of server are removed and installed in a similar manner.
- See the *User Guide* or *Maintenance Manual* for the maximum room air temperature.
- Install the server only in a rack that has perforated doors.
- Do not block any air vents, usually 150 mm (6 inches) of air space provides proper airflow.
- Plan the device installation starting from the bottom of the rack.
- Install the heaviest device in the bottom of the rack.
- Do not leave open space above or below an installed server in your rack. To help prevent damage to server components, always install a filler panel to cover the open space and to help ensure proper air circulation.
- Do not extend more than one device out of the rack at the same time.
- Do not place any objects on the top of the rack-mounted devices.
- Connect all power cords to properly wired and grounded electrical outlets.
- Do not overload the power outlet when installing multiple devices in the rack.
- Remove the rack doors and side panels to provide easier access during installation.
- Install the server in a rack that meets the following requirements:

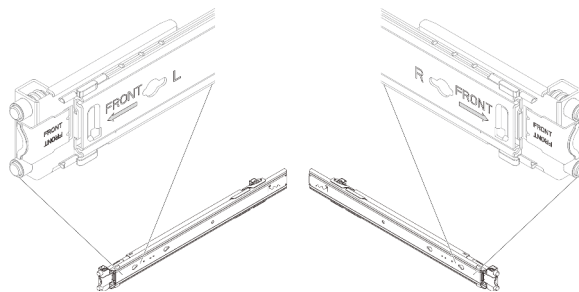
- Minimum depth of 70 mm (2.76 inches) between the front mounting flange and inside of the front door.
- Minimum depth of 190 mm (7.48 inches) between the rear mounting flange and inside of the rear door.
- For long slide rail kit, the distance between the front and the rear EIA flange of the rack is 400 to 500 mm (15.7 to 19.7 inches).
- For short slide rail kit, the distance between the front and the rear EIA flange of the rack is 270 to 310 mm (10.6 to 12.2 inches).
- If you want to install the rails and a 0U PDU into the same rack, the rack must be 42U or higher.

Installation

1. Install the rails to the rack

Install the rails according to the following steps.

Attention: There are “L” and “R” logos marked on the front of inner rails which represent the left rail and the right rail as the following illustration. Ensure correct rails are installed to the rack accordingly.



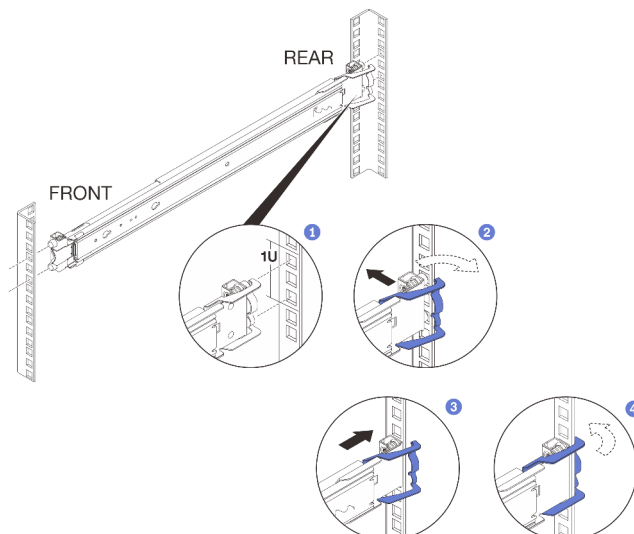
Install the rear mounting bracket to the rack:

Step 1. Align the pins on the rear end of the outer rail to the holes on the rear of the rack.

Step 2. Slightly move the rail aside to hook the rear mounting bracket to the frame, and then push the outer rail outward as shown.

Step 3. Push the rail back until the pins are inserted into the corresponding holes on the rack.

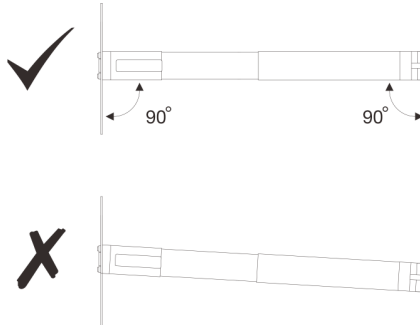
Step 4. The rear end of the outer rail will be locked into place automatically.



Install the front mounting bracket to the rack:

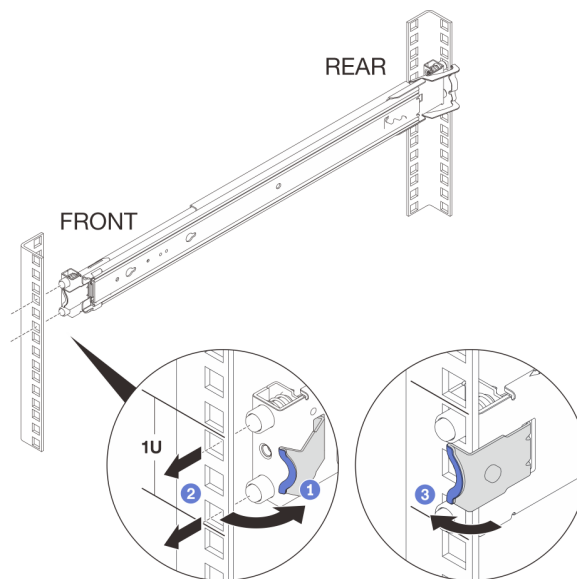
Step 1. Slide the inner rail all the way in to allow the front mounting bracket to open.

Important: Make sure that both ends of the rail are seated at the same height.



Step 2. Open the front mounting bracket, and align the front pins of the outer rail to the holes in the rack. Pull the outer rail as shown until the pins are inserted into the corresponding holes.

Step 3. Close the front bracket to lock the rail in position.



Repeat the previous steps to install the rear and front mounting bracket of the other rail.

2. Disengage the inner rails

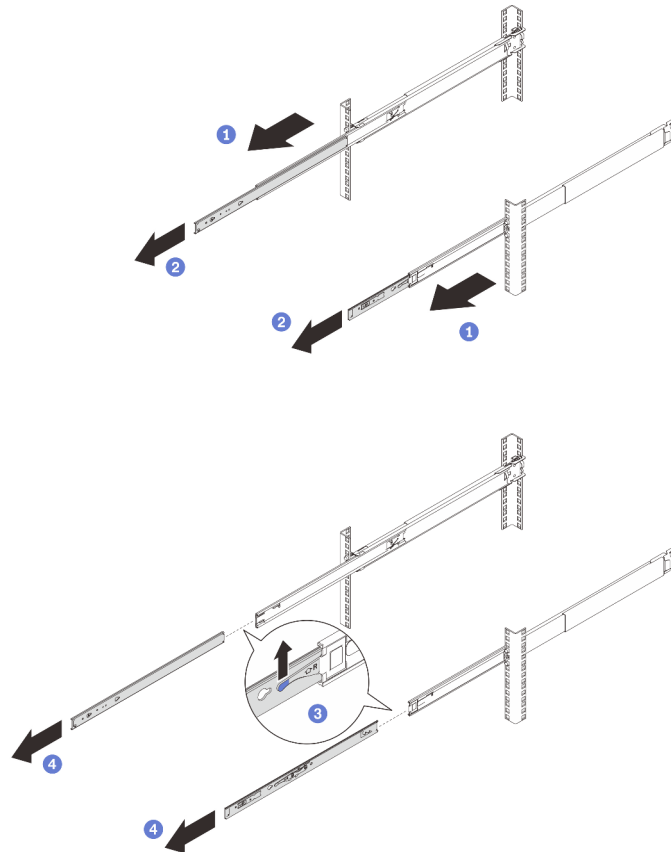
Step 1. Pull the inner rail outward.

Step 2. Extend the rail until the release latch is appeared.

Step 3. Push up the release latch to disengage the inner rail from the outer rail.

Step 4. Pull the inner rail out from the outer rail.

Step 5. Repeat Step 1 to Step 4 to install the other rail.



3. Install the inner rails on the server

Install the inner rails to the server according to the following steps.

Attention:

- There are “L” and “R” logos marked on the front of inner rails which represent the left rail and the right rail. Ensure correct rails are installed to the rack accordingly.
- The appearance of the server and the number of the rail mounting pins on the side of the server may be different depending on the server model.

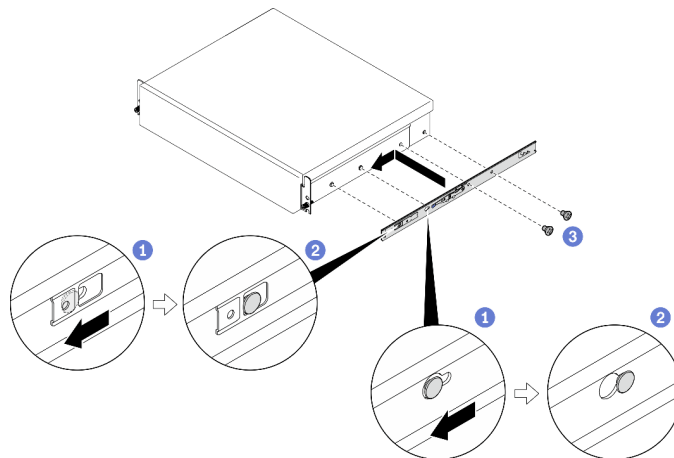
Step 1. Align the mounting holes on the inner rail with the corresponding rail mounting pins on the side of the server.

Step 2. Push the inner rail as shown until the mounting pins on the server are locked in place.

Step 3. Depending on the model, tighten one or two M3.5 screws to secure the inner rail to the server.

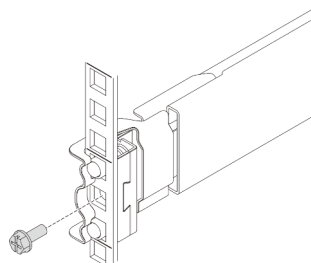
Note: For the model that requires two screws on each side, the extra screws are attached to the server. For the details of the extra screws, see *Server replacement* or *Configuration guide* in the server *User Guide* or *Maintenance Manual*.

Step 4. Repeat Step 1 to Step 3 to install the other rail.



4. Install rear screws (optional)

If the rack will be shipped with the server installed or the rack will be placed in a vibration-prone area, install the two M6 screws into the rear of the rails.



Server replacement

To install or remove the server, refer to the “Hardware replacement procedures” chapter in the server *User Guide* or *Maintenance Manual*. Search your server and select its *User Guide* or *Maintenance Manual* at Lenovo server product portfolio page: <https://pubs.lenovo.com/>.



Removal

1. Remove the inner rails from the server

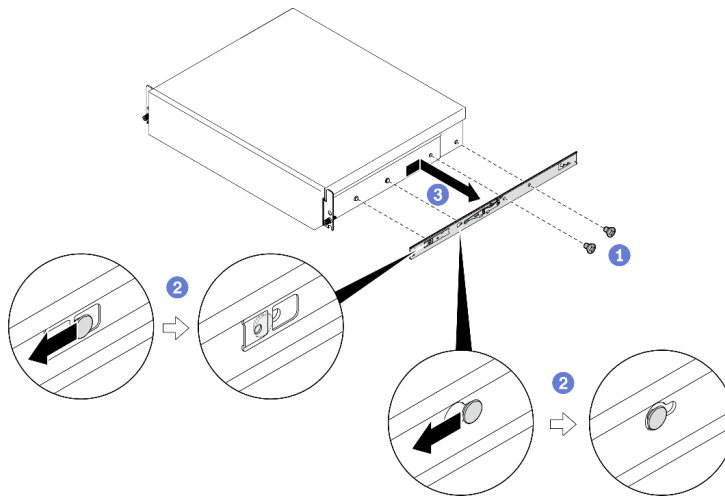
Note: The appearance of the server and the number of the rail mounting pins on the side of the server may be different depending on the server model.

Step 1. Depending on the model, loosen the one or two M3.5 screws that secure the inner rail.

Step 2. Open the front latch on the inner rail.

Step 3. Slightly push the inner rail to the right and release the inner rail from the mounting pins on the server.

Step 4. Repeat Step 1 to Step 3 to remove the other rail.

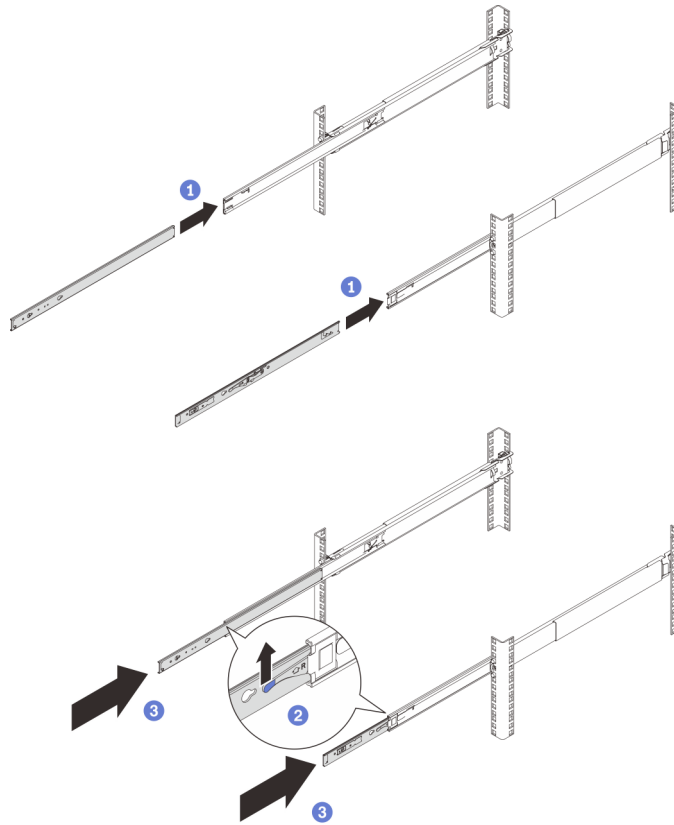


2. Engage the inner rail with the outer rail

Step 1. Align the outer rail to insert and push the inner rail until it stops.

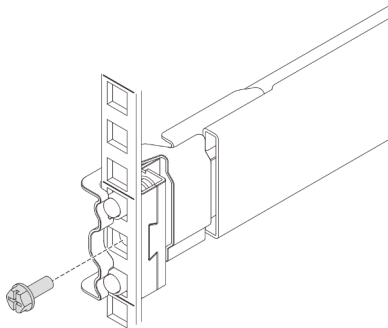
Step 2. Push up the release latch to push continuously until the inner rail is completely engaged with the outer one.

Step 3. Repeat Step 1 and Step 2 to engage the other rail.



3. Remove rear screws (optional)

Remove the two M6 screws from the rear of the rails.



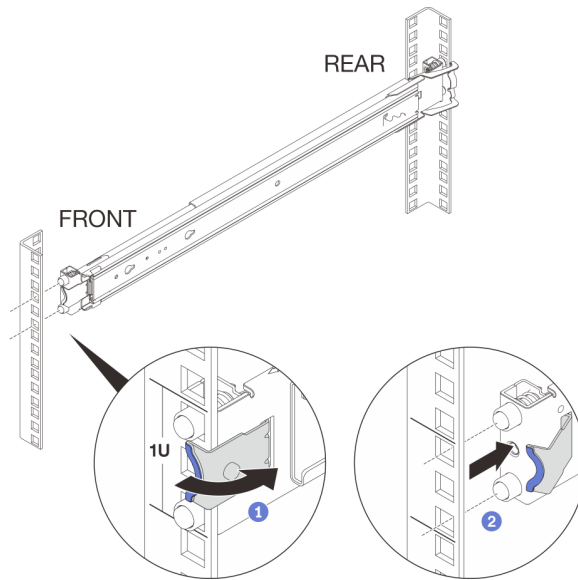
4. Remove the rails from the rack

Remove one of the rails according to the following steps.

Remove the front mounting bracket from the rack:

Step 1. Open the front mounting bracket.

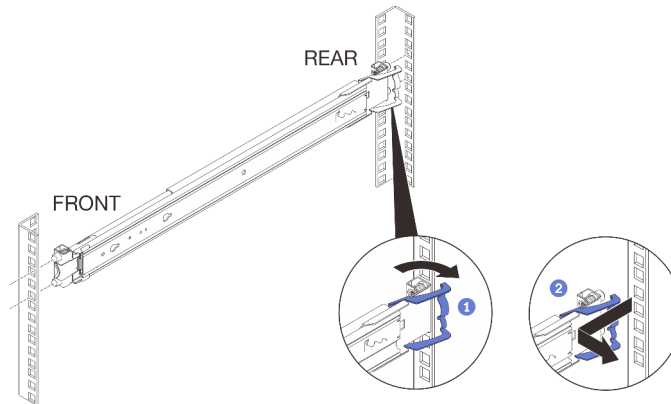
Step 2. Slightly move the rail aside to release the pins from the frame. Push the rail backward as shown.



Remove the rear mounting bracket from the rack:

Step 1. Open the rear mounting bracket.

Step 2. Slightly move the rail aside to release the pins from the frame. Pull the rail outward as shown.



Repeat the previous steps to remove the front and rear mounting bracket of the other rail.

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