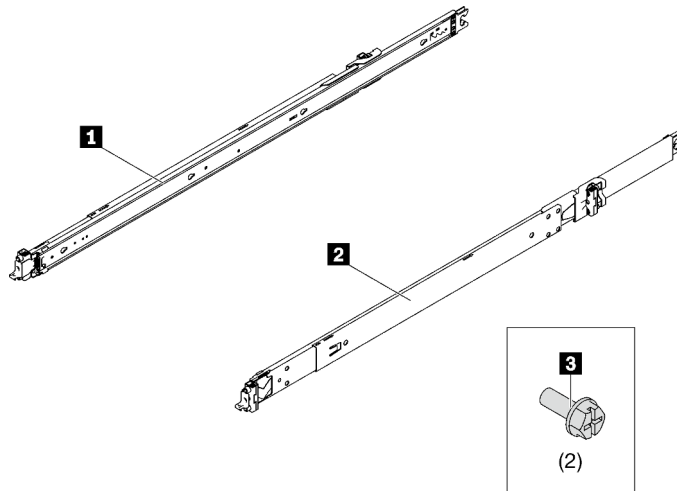


Rail Installation Guide

Rail kit parts inventory

The Toolless Rail Kit includes the following parts:



- 1** One left rail
- 2** One right rail
- 3** Two M6 screws

Notes:

- This kit can be installed in both square hole and round hole rack.
- If any parts are missing, contact local service.

Read these guidelines first

Read the following guidelines before installing the rail kit and server to the rack.

- The maximum rail travel distance is 971 mm (38.23 inches).
- Install the server to a rack that meets the following requirements:
 - Minimum depth of 70 mm (2.76 inches) between the front mounting flanges and inside of the front door.
 - Minimum depth of 100 mm (3.94 inches) between the chassis rear wall and inside of the rear door.
 - The minimum distance between the front and rear mounting flanges is 635.00 mm (25.00 inches).
 - The maximum distance between the front and rear mounting flanges is 812.80 mm (32.00 inches).
 - To install the rails and a 0U PDU into the same rack, the rack must meet the following height and depth requirements:
 - 42U or higher
 - Without CMA: at least 1100-mm (43.31-inch) deep
 - With CMA: at least 1200-mm (43.31-inch) deep
 - Only install the server into a rack with perforated doors. Remove the rack doors and side panels for easy access during installation.
 - When installing multiple units, start with installing the heaviest device to the lowest part of the rack.
 - See the *User Guide* for the requirements of room air temperature.
 - Do not block any air vents. Spare at least 15 cm (6 inches) of space for proper airflow.
 - Do not leave the unoccupied space above or below an installed server in the rack empty. To prevent damage to server components, always install filler panels to cover unoccupied space to ensure proper air circulation.
 - Do not leave more than one server slid out from the rack at the same time.

- Do not overload the power outlet when multiple devices are installed in the rack.

If you need to remove the rail from rack, refer to the “Hardware replacement procedures” chapter in the server *User Guide*. Search your server and select its *User Guide* at Lenovo server product portfolio page: <https://pubs.lenovo.com/>.



S036



18 - 32 kg (39 - 70 lb)



32 - 55 kg (70 - 121 lb)

CAUTION:
Use safe practices when lifting.

R006



CAUTION:
Do not place any object on top of a rack-mounted device unless that rack-mounted device is intended for use as a shelf.

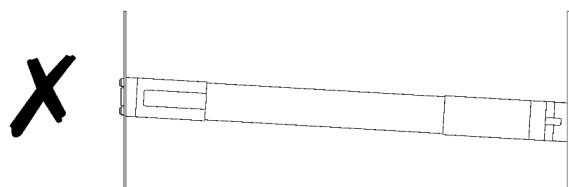
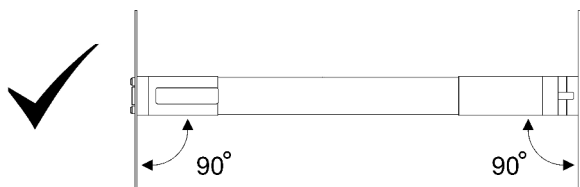
S037

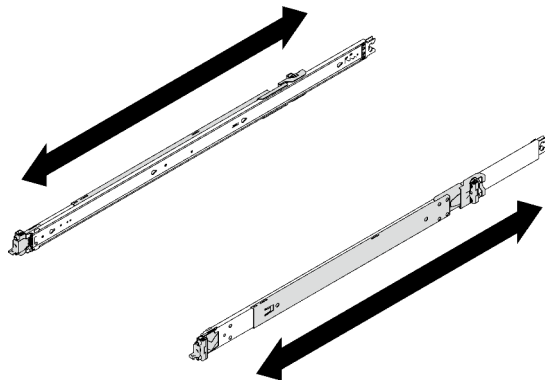


CAUTION:
The weight of this part or unit is more than 55 kg (121.2 lb). It takes specially trained persons, a lifting device, or both to safely lift this part or unit.

Install the rail kit to the rack

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





Notes:

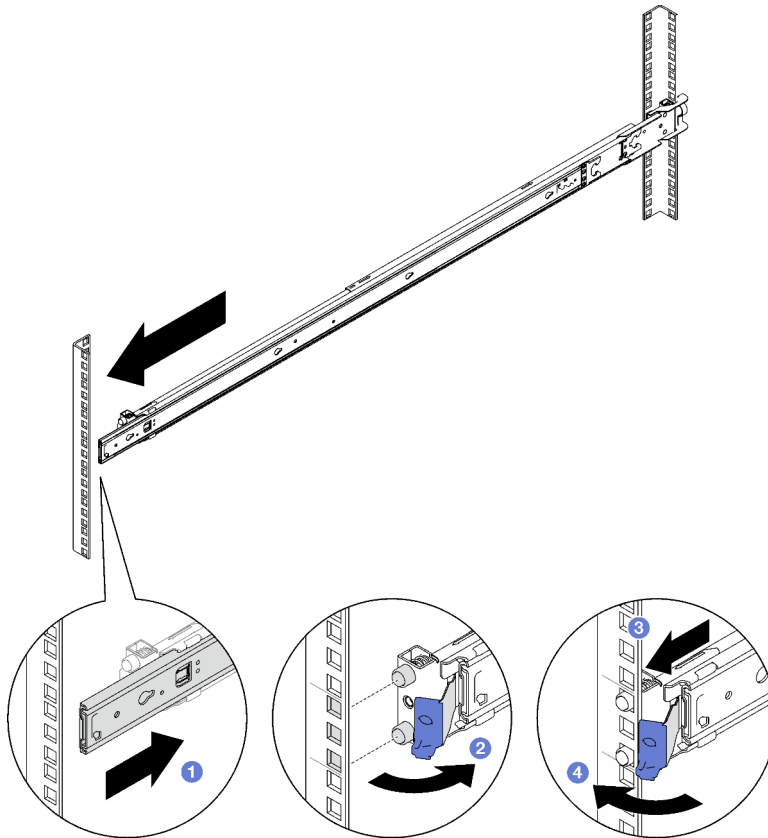
- The rails are extensible as shown in the following illustration.
- Install the rail to the rack, starting from the rear and proceeding to the front.
- Make sure the rail is shortened to the shortest position.
- The rail mounting pins take up 1U space. Follow the U space marking on the rack when installing the rail kit.

Step 1. Install the rear mounting pins to the rack.

<p style="text-align: right;">Rear</p>	<p>Square hole rack</p> <p>Round hole rack</p>
<ol style="list-style-type: none"> ❶ Extend the outer rail toward the rear mounting flanges in the rack. ❷ Align the mounting pins with the rear mounting flanges and set the opening of the rear latch against the rack frame. ❸ Push the rail toward outside of the rack until the rear latch opens. ❹ Push the rail toward the rear mounting flanges until the rear latch rotates back to the closed position. 	

Step 2. Install the front mounting pins to the rack.

Front





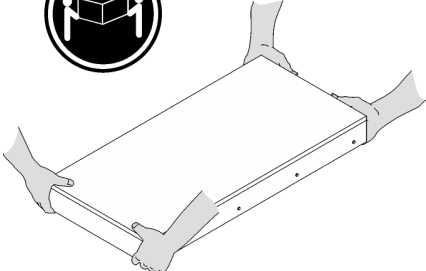


- 1 Slide the inner rail all the way in to allow the front latch to open.
- 2 Open the front latch and align the mounting pins with corresponding front mounting flanges.
- 3 Pull the rail forward until the mounting pins go through the holes.
- 4 Release the front latch to secure the rail to the rack.

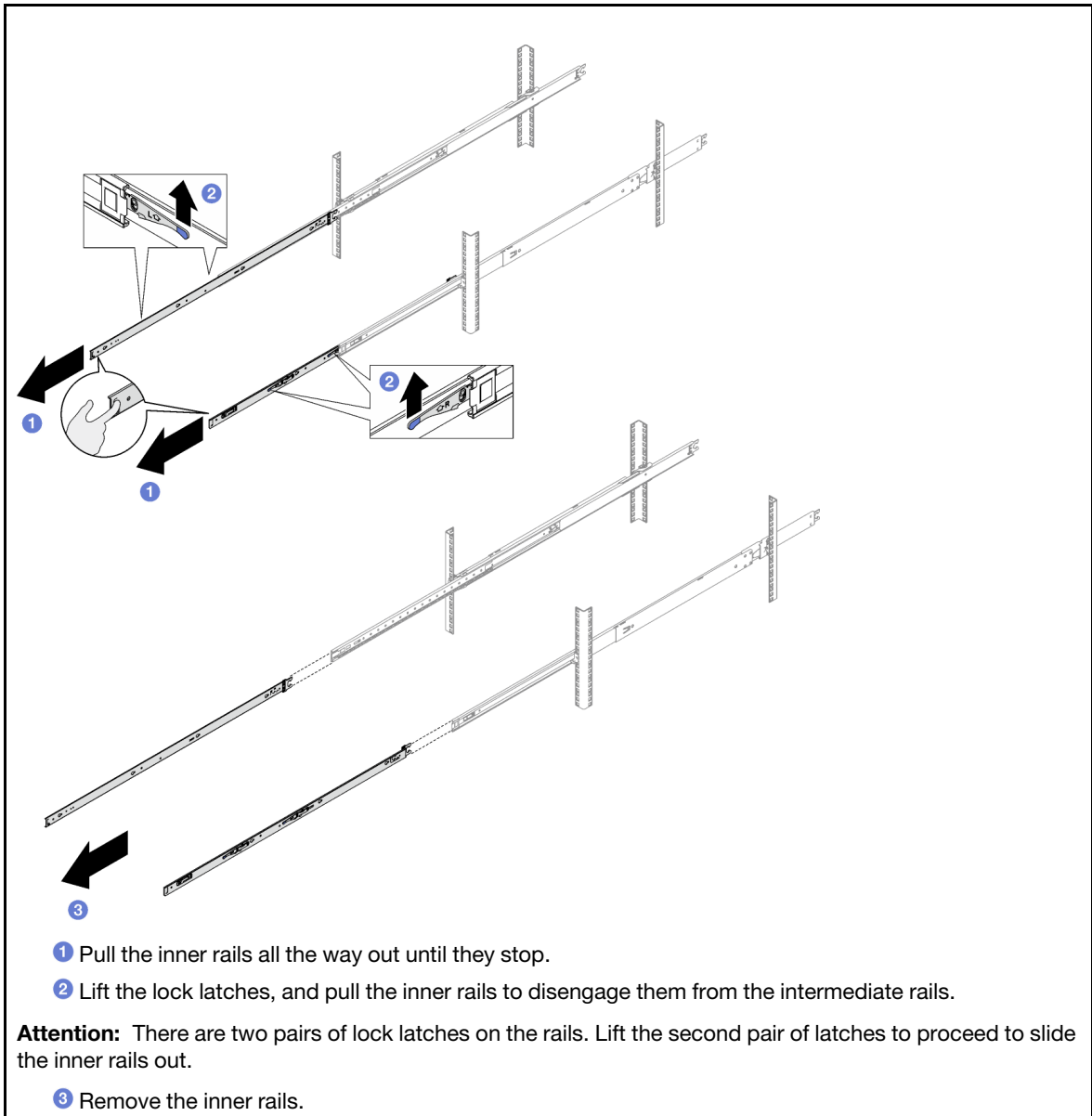
Step 3. Repeat the previous two steps on the other rail.

Install the server to rails

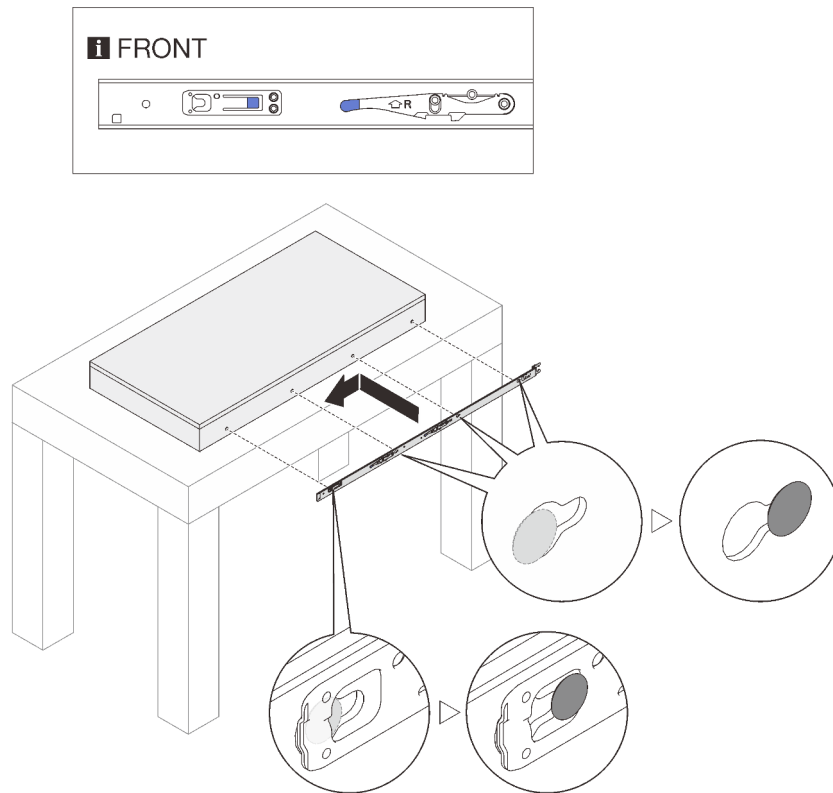
Step 1. Lift the server and place it on a table. Two lifting options are available:

<div data-bbox="311 226 643 348"><div data-bbox="540 262 634 310">18-32 kg 39-70 lb</div></div> <p>For two-person lift, remove the following components beforehand:</p> <ul style="list-style-type: none">• All the power supply units• All the storage drives	<div data-bbox="784 201 1115 317"><div data-bbox="1008 233 1105 281">32-55 kg 70-121 lb</div></div> <div data-bbox="784 350 1214 468"><div data-bbox="1000 384 1101 432">55-100 kg 121-220 lb</div></div> <p>Otherwise, lift the server with three people or a lifting device.</p>
<div data-bbox="350 554 470 674"></div> 	<p>CAUTION: Make sure two people are lifting the server with hands positioned as illustrated.</p>

Step 2. Remove the inner rails from the intermediate rails.



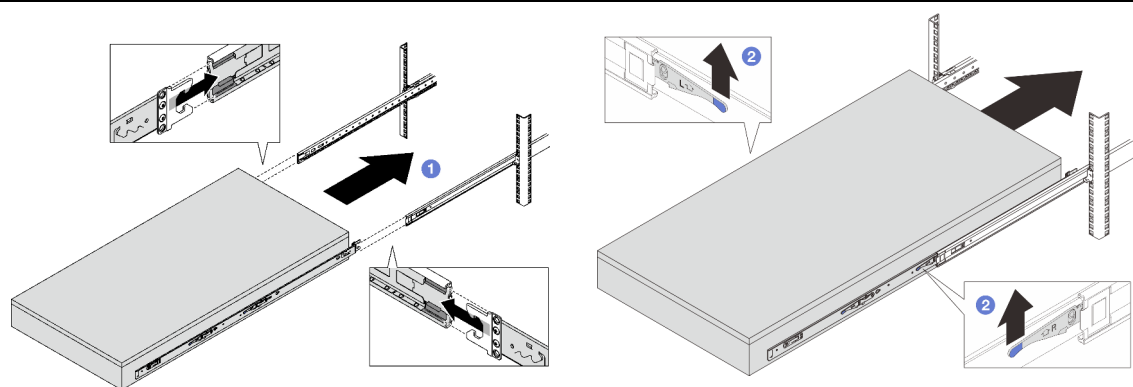
Step 3. Align the slots on the inner rail with the corresponding T-pins on the side of the server; then, slide the inner rail forward until the T-pins lock into place with the inner rail.



Step 4. Repeat the previous step on the other rail.

Step 5. Install the server to the rack.

Attention: Before inner rail is inserted into intermediate rail, ensure that the ball retainer is at the foremost of the intermediate rail.



① Align both rear ends of the inner rails with the openings in the intermediate rails, and make sure the two pairs of rails mate correctly. Then, carefully slide the server into the rack until the rails snap into place.

② Lift the lock latches to proceed to slide the server in.

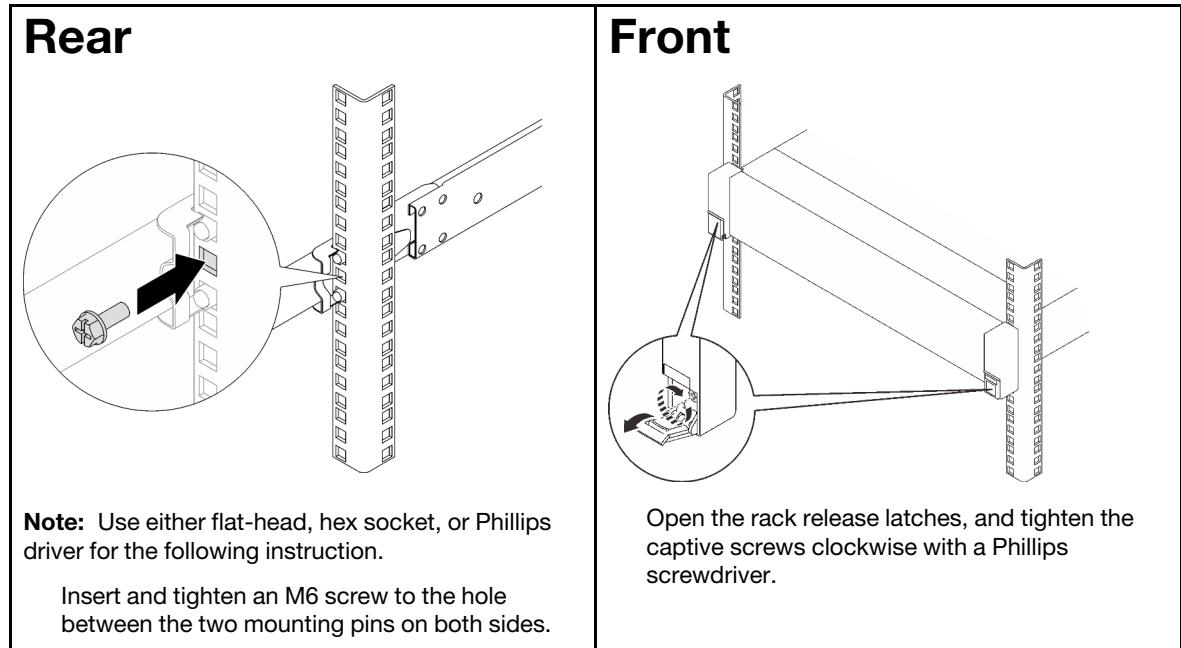
Note: Slide the server all the way out and all the way back in to make sure the rails are working smoothly.

Step 6. Reinstall all the components that were removed previously.

(Optional) Secure the server to the rack

Step 1. Secure the server to the rack.

Attention: Make sure to secure the screws when shipping on rack.



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