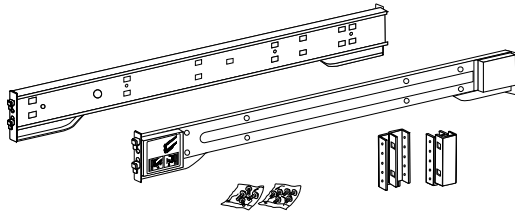


Replacing a Rail Kit

This document describes how to remove and replace a Rail Kit for a SnapServer 2000-Series server or REO 4600 appliance.



The rail kit included with the N2000 is adaptable for installation in the two major types of hardware racks: squared-holed and round-holed 19-inch (EIA-310) racks.

NOTE: A two-post telco-style rack or rack less than 29-inches in depth will NOT support this server. Also, for threaded-hole racks, Overland Storage recommends using a shelf.

WARNING: Use care during rack installation or removal to prevent accidental tipping of the rack causing damage or personal injury.

AVERTISSEMENT: soyez prudent lors de l'installation ou de l'enlèvement du support afin d'empêcher le renversement accidentel de la crémaillère, pour éviter dommages et blessures.

Remove the Server

Disconnect and Power Off

1. For the SAN S2000, use the GUI to make sure **none** of the **initiators** (servers) have active connections.
2. **Power off** the server.

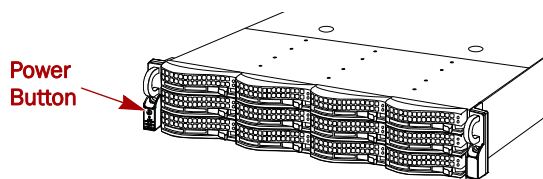


Figure 1. Power Button on Left Flange

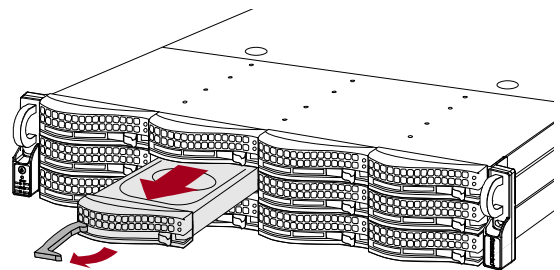
Press the Power button on the front left for **no more** than one second. While there is no obvious change, the server starts its shutdown process.

3. Wait **1-2 minutes**, and then verify that the power LED is off before continuing.
4. Disconnect the **power cords**.
5. Disconnect all the **remaining cables**.

Remove the Disk Carriers

IMPORTANT: Overland recommends that you remove the drive assemblies to lessen the unit's weight prior to removal. The assemblies must be reinstalled in the same slots.

1. Remove the **bezel**:
 - a. If necessary, **unlock** the bezel.
 - b. Press the bezel **latch** and pull that latch side forward a few inches.
 - c. To release the **tabs** on the opposite side, pull the bezel away from that flange. Set the bezel aside.
2. On the drive carrier, press the **button** to release the assembly handle.
3. Use the **handle** to pull the assembly out.



NOTE: Do not remove the disk drives from their carriers. Doing so voids the drive warranty.

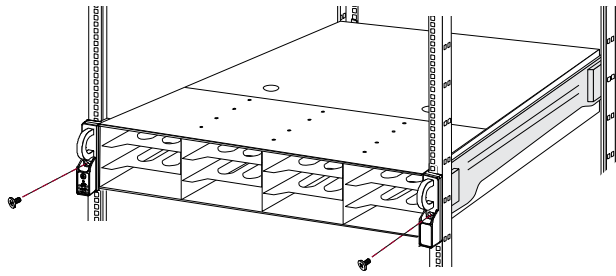
4. Number the **drive assembly** and set it on an ESD surface.
5. Repeat **Steps 2–4** for the **remaining** drive carrier assemblies.

Remove Server from Rack

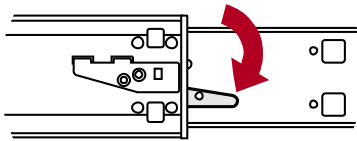
WARNING: It is recommended that a mechanical lifter (or at least two people) be used during rack installation or removal to prevent injury.

AVERTISSEMENT: pour éviter toute blessure il est recommandé qu'un monte-charge (ou deux personnes au moins) soit utilisé lors de l'installation ou de l'enlèvement du support.

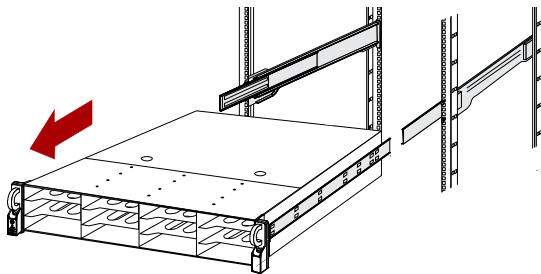
1. Remove and retain the **screws** holding the server to the rack rails (see graphic on next page).



- Using the two **handles**, pull the unit out until the rails lock.
- Press down **both latches** where the inner rail on the server goes into the middle rail.



- Keeping it parallel to the floor, pull the **server** out of the rack and place it on an ESD surface.

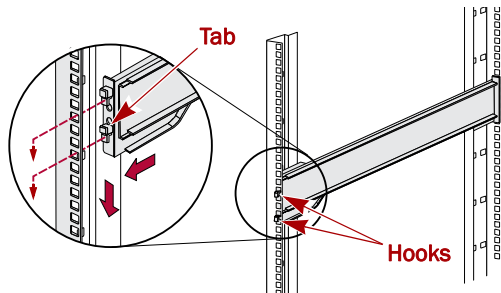


- Slide the **rails** back into the rack.

Remove Old Rails

Square-Holed Rack

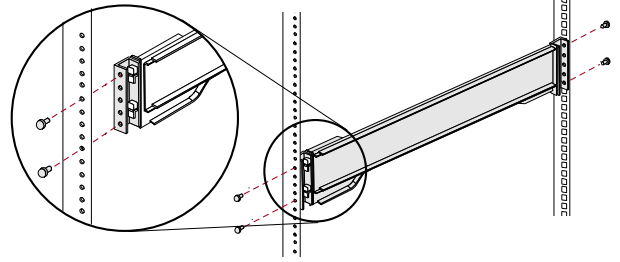
- At the front left, press in both **tab locks** and lift the rail as high as the hooks allow.



- Pull the **hooks** in through the holes to free that end.
- Repeat **Steps 1–2** for the rear and set the **rail** aside.
- Repeat **Steps 1–3** for the **other rail**.

Round-Holed Rack

- At the front left, remove the rail adaptors **screws**.

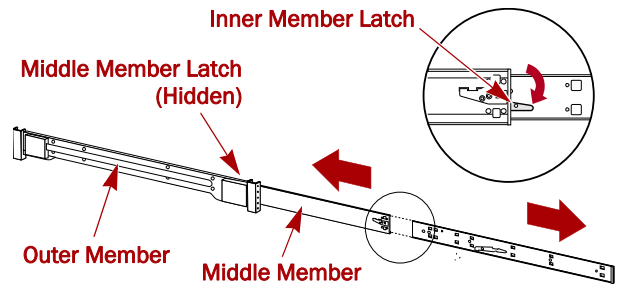


- Remove the **rear screws** and set the rail aside.
- Repeat **Steps 1–2** for the **other rail**.

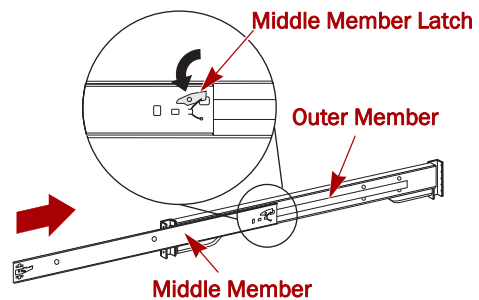
Inner Rail Member

Remove the old inner members from the server and install the new ones:

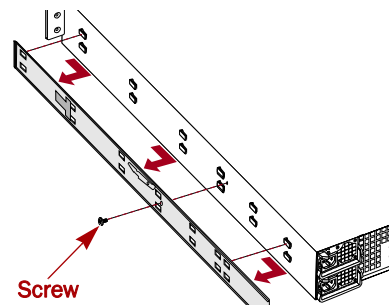
- Remove the **inner rail** from the new rail set:



- Fully extend the **rail set**.
- Push the inner member **latch** down, and remove the **inner rail**.
- Release and slide the **middle member** back into the outer member.

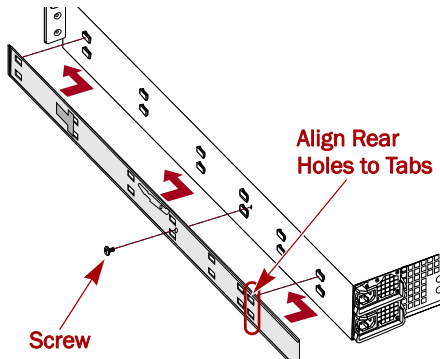


- Remove the **old right** inner member from the server:



- a. Facing the chassis, remove the Phillips **screw** securing the inner member to the server.
- b. Slide the **rail** toward the rear.
This may require some force as it is a tight fit.
- c. Pull the rail off the server and set it aside.

3. Attach the **new right** inner member:



- a. Position the **rail** against the right side of the server with the locking tabs going through the holes on the rail.
- b. Slide the rail **toward the front** to lock it.
This may require some force as it is a tight fit.
- c. Secure the rail with its Phillips **screw**.

4. Repeat [Steps 2–3](#) to replace the **left inner member**.

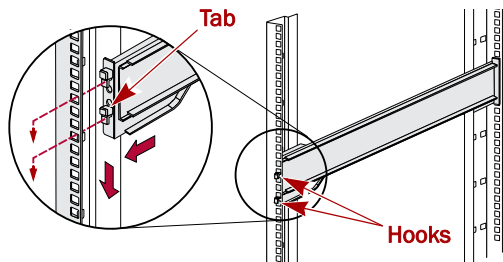
IMPORTANT: Depending on your rack type, continue with either the [“Square-Holed Rack Installation”](#) or [“Round-Holed Rack Installation.”](#)

Install New Rails

The rails are not universal. They are stamped LH (left) and RH (right) and must be mounted on the appropriate side (when facing the rack front).

Square-Holed Rack Installation

1. Attach the **left outer rail** to the rack:



- a. Position the **rail** against the inside of the rack front rail with the hooks in line with the holes.
- b. **Insert** the bracket front into the rack rail and **press down** so that the hooks catch.
The spring-loaded tabs will extend into the hole to prevent the rail from unhooking.
- c. Slide the **rear segment** of the bracket rearward until the hooks are in line with the correct holes.

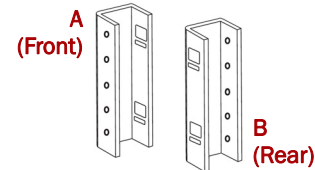
d. **Insert** the bracket rear into the rack rail and **press down** so that the hooks catch and the tabs lock.

2. Repeat [Step 1](#) for the **right** slide rail assembly.
3. Verify that the **rails** are level and straight.

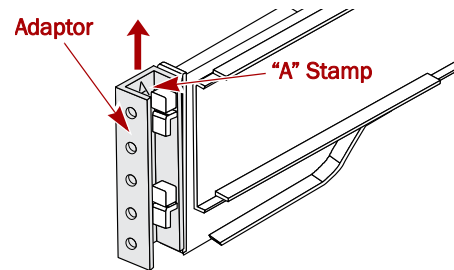
Continue with [“Reinstall the Server in the Rack”](#) on [page 4](#).

Round-Holed Rack Installation

Before installing the rails onto an unthreaded round-holed rack, the round-hole rail kit adaptors must be installed on the ends of the outer rails.



1. Attach the **adaptors** to both ends of the rail:



a. Position the adaptor stamped “A” at the front of the **left outer rail** (end with the graphic label).

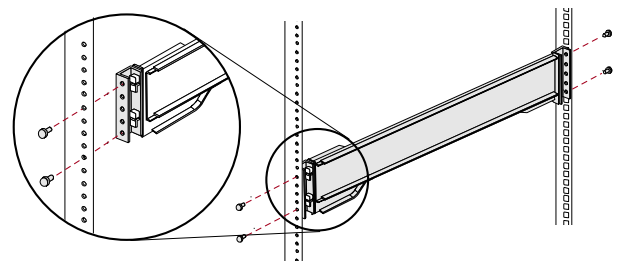
NOTE: Make sure the stamp is at the top and the square adaptor holes are aligned with the hooks on the outer rail.

b. Press the **adaptor** onto the hooks and slide it **upwards** until it locks (clicks).

NOTE: The rail buttons will snap into the square holes.

c. Repeat [Steps a–b](#) for the **left rear** adaptor (stamped “B”).

2. Facing the rack, position the **left rail** in the rack, aligning the adaptor holes with the **front** left rack holes being used.



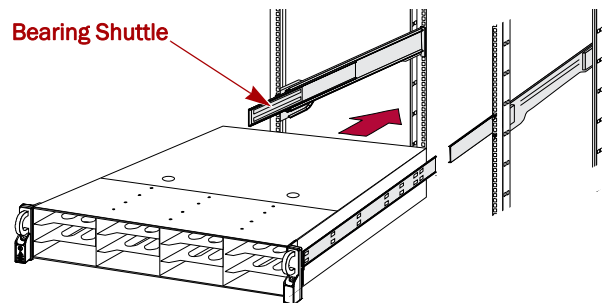
3. Using the **screws** from the kit, secure the **front** of the rail to the rack.

4. Slide the **rear rail segment** rearward until the **rear** adaptor holes are in line with holes being used.

5. Using the **screws** from the kit, secure the **rear** of the rail to the rack.
6. Repeat [Steps 1–5](#) for the **right rail**.
7. Verify that the **rails** are level and straight.

Reinstall the Server in the Rack

1. Extend the rails out of the rack with the **bearing slides** all the way to the front.



2. Using a mechanical lifter or two people, carefully slide the **server rail** into the **rack rail**, and push the server to the rear of the rack.
3. Using the **retained screws**, secure the server into the rack.
4. One at a time, insert the **disk assemblies** back into the chassis:

IMPORTANT: The assemblies must be reinstalled into the same slots.

- a. Use the lever to push the disk assembly all the way into the slot **same slot** in the chassis.
 - b. Push the **lever** close until it locks (clicks).
5. Replace the **bezel** on the front of the unit by inserting the tabs first and pushing the latch side in until it catches (clicks). Relock if needed.
 6. Reconnect the **data cables**.
 7. Reconnect the **power cords** to the server.

You can get additional technical support on the Internet at <http://support.overlandstorage.com>, or by contacting Overland Storage using the information found on the [Contact Us](#) page on our web site.