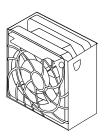# Replacing a Cooling Fan

This document describes how to remove and replace a cooling fan in a SnapServer 2000-Series server or REO 4600 appliance.

Follow this procedure carefully. Improper installation may result in damage which voids existing warranties.

WARNING: To reduce the risk of electric shock or damage to equipment, always remove any power cords while working with the unit.
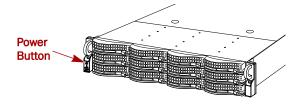
AVERTISSEMENT: pour réduire le risque de choc électrique ou endommagement de l'équipement, retirez toujours les cordons électriques en travaillant avec l'appareil.

CAUTION: While working with the unit, observe standard Electrostatic Discharge (ESD) precautions to prevent damage to micro-circuitry or static-sensitive devices.

Prepare the Appliance

Disconnect and Power Off

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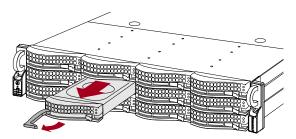2. **Power off** the server.

Press the Power button on the front left for **no more** than one second. While there is no obvious change, the appliance 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 **data 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.

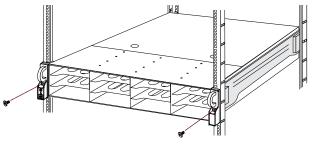*NOTE:* Do not remove the disk drives from their carriers. Doing so voids the drive warranty.

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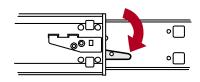
Remove Server from Rack

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 recommande qu'un monte-charge (ou deux personnes au moins) soit utilisé lors de l'installation ou de l'enlèvement du support.
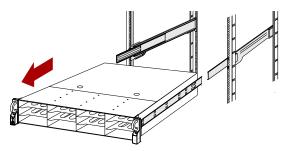
1. Remove and retain the **screws** holding the server to the rack rails.

2. Using the two **handles**, pull the unit out until the rails lock.

3. Press down **both latches** where the inner rail on the server goes into the middle rail.
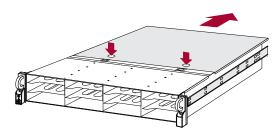

4. Keeping it parallel to the floor, pull the **server** out of the rack and place it on an ESD surface.

5. Slide the **rails** back into the rack.
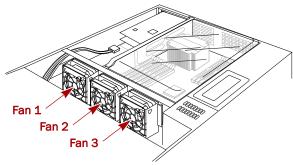
Remove the Cover

1. Push down the **cover latches** and slide the chassis cover back **until it stops** at 1/2 inch (1.25cm).

2. Lift the **cover** up and off.
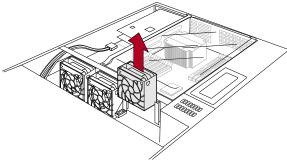
Determine Which Fan has Failed

1. Reattach a **AC power cord** and turn the server ON long enough to see which of the three (3) fans is not operating.
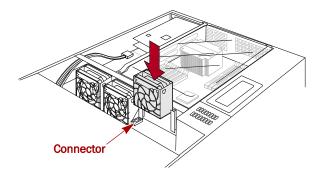

Fan 1
Fan 2
Fan 3

2. Once you have determined which **fan** has failed, power down the server and remove the power cord.

Replace the Failed Fan

1. Press the **release tab** and lift the failed fan out of the chassis.

2. Install the **new fan** by positioning it onto the fan connector and pressing it into place.

Connector

Reactivate the Unit

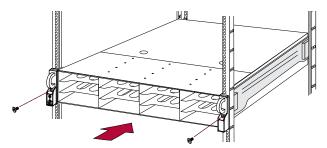You are now ready to reactivate the unit.

Replace Covers

1. Place the **top cover** back on the chassis.

2. Slide the cover towards the **front** until it latches (clicks).

CAUTION: Never operate the SnapServer server without the top cover in place.

Replace Server in Rack

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

2. Using two people to lift the server, 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** into the new chassis:

   a. Use the lever to push the disk assembly all the way into the slot **same slot** in the new chassis.

   b. Push the **lever** close until it locks (clicks).

5. Replace the **bezel** on the front of the unit by inserting the tabs and pushing the latch side in until it catches (clicks).

6. Reconnect the **data cables**.

7. Reconnect the **power cords** to the server.

Return Removed Parts to Overland

1. Place any **removed part** in the anti-static bag and put it in the replacement part's box.

2. Return the old part to **Overland Storage**.

   For return shipping details and RMA number, go to: http://support.overlandstorage.com/support/support-return-instructions.html

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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.