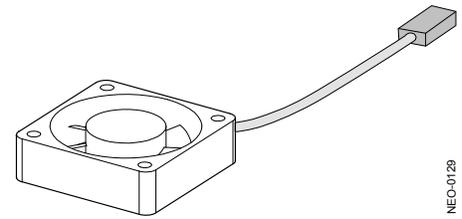


# Card Cage Fan

## Remove & Replace Instructions



NEO-0129

### Overview & Notes

**IMPORTANT:** Overland Storage requires that all NEO Series parts be removed and replaced by an Overland Storage authorized service provider. Improper installation may result in damage which voids existing warranties.

**WARNING:** The GUI touch screen does not completely shut off NEO SERIES system power. To reduce the risk of electric shock or damage, unplug both power cords.

The same type of cooling fan is located above each Card Cage. Their downward airflow enhances cooling of the optional expansion cards when installed.

This document describes how to remove and replace a Card Cage cooling fan in a NEO 2000 or NEO 4000 library from Overland Storage.

**NOTE:** The replacement fan is a few thousands of an inch thicker than the one it replaces in the Lower Card Cage so that the included flat-head screws **MUST BE USED** to install it.

### Unpacking the Spare

Carefully unpack and verify that you have all the parts:

- Cooling Fan
- Two new flat-head M3x20mm screws
- Two cable ties
- These instructions

### Electrostatic Discharge Information

A discharge of static electricity can damage micro-circuitry or static-sensitive devices. To help prevent Electrostatic Discharge (ESD), observe standard ESD precautions.

## Replacing the Upper Fan (NEO 2000/4000)

### Remove the Old Fan

1. Remove and retain the 11 screws that secure the cover to the library.
2. Lift the cover slightly and move it toward the front about 1/2 inch (12cm).
3. Lift the inside edge about 45° (Figure 1) and unplug the connector from the fan to the card cage backplane.

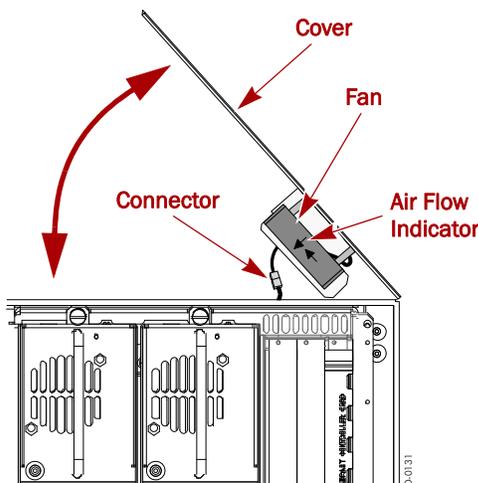


Figure 1. Upper Fan Cover Removal Rear View

4. Set the cover upside down (Figure 2) and carefully cut the two cable ties holding the fan cable to the cover.

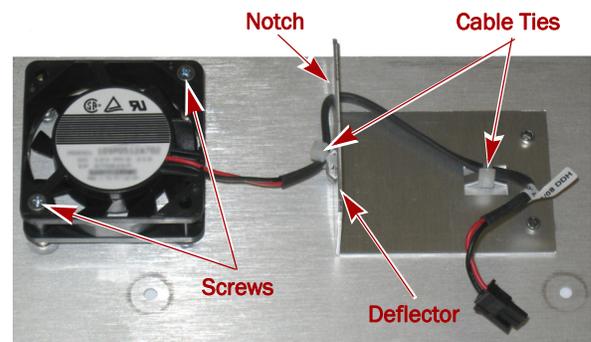


Figure 2. Cable Ties and Screws

5. Remove and DISCARD the two screws that secure the fan to the cover. Retain the cover.

### Install the New Fan

1. Position the new fan over the mounting posts.

**IMPORTANT:** Verify that fan airflow (arrow on fan) is directed **away** from the cover plate.

2. Install the **two new flat-head M3x20mm screws** to secure the replacement fan to the bracket.
3. With the fan cable running through the deflector notch, use the **two cable ties** (Figure 2) to secure the cable.
4. Carefully reposition the **cover and fan assembly** over the opening and slightly toward the front to permit the deflector to enter the cavity.

5. Reconnect the fan cable to the **backplane cable**.
6. Align the **cover** in place.

**NOTE:** Verify that the cables are all clear before closing.

7. Using the retained **screws**, reattach the cover.

Return any old parts to Overland Storage in the box the original part came in.

## Replacing the Lower Fan (NEO 4000)

### Remove the Old Fan

1. **Power off** the library:
  - a. Power down the unit using the **GUI**.
  - b. Switch the **Power Supply switches** to OFF (0).
  - c. Remove the **power cords**.
2. On the unit's left side, remove and retain the **two screws** holding the Backplane cover plate in place.
3. Disconnect the **cooling fan cable** from the splitter behind the backplane.
4. Remove and retain the **two screws** holding the Fan Bracket assembly in place.
5. Carefully slide the **Fan Bracket assembly** out of the library until the cable and connector are free (Figure 3).
6. Remove and DISCARD the **two screws** that secure the fan to the bracket assembly.
7. Remove the **fan** from the bracket assembly and retain the bracket.

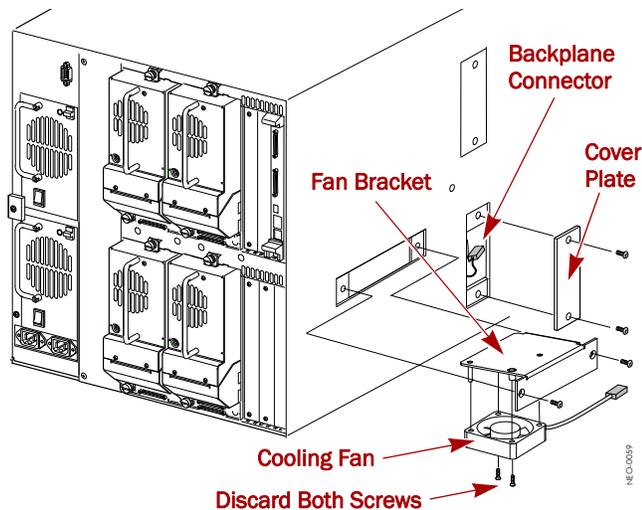


Figure 3. Lower Card Cage Fan & Bracket Removal

### Install the New Fan

1. Slide the **new fan** onto the bracket posts (Figure 4)



**IMPORTANT:** Verify that fan airflow (arrow on fan) is directed **away** from the bracket plate.

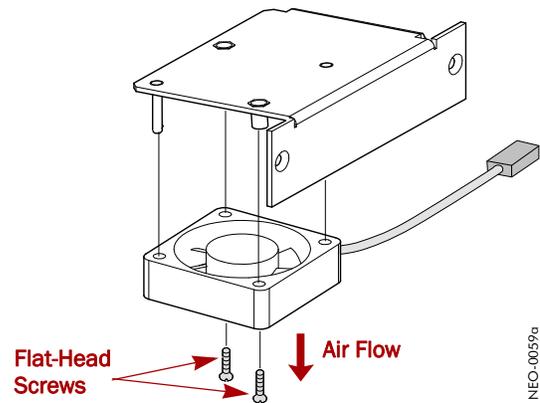


Figure 4. Lower Card Cage Bracket Assembly

2. Use the **two new flat-head M3x20mm screws** to secure the replacement fan to the bracket.
3. Holding the Fan Bracket assembly next to the library, feed the **fan cable** over the backplane and connect it to the splitter.
4. Slide the Fan Bracket **assembly** completely inside the library and secure with the two retained **screws**.
5. Using the retained screws, reinstall the **cover plate**.
6. **Turn on** the library:
  - a. Reconnect the **power cords** to the library.
  - b. Toggle the **Power Supply switches** ON (1).
  - c. Press the **GUI touch screen** to apply power to the module.

Return any old parts to Overland Storage in the box the original part came in.

### Additional Help

You can get additional technical support on the Internet at <http://support.overlandstorage.com>, or call 1-877-654-3429 (toll-free U.S. & Canada), +44 (0) 118-9898050 (Europe), or +1 (858) 571-5555 Option 5 (International).