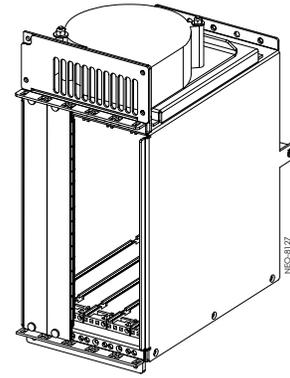


# NEO 8000 Library

## Remove & Replace Instructions

### Card Cage Spares



## Overview & Notes

**IMPORTANT:** Overland Storage requires that all NEO 8000 parts be removed and replaced by an Overland Storage authorized service provider. Improper installation may result in damage which voids existing warranties.

The NEO 8000 contains two rear-access card cages. The Primary card cage located on the lower left side contains the plug-in connectors for the Library Controller card and up to four Virtual Interface Architecture (V.I.A.™) PCI cards. The Secondary card cage on the middle right side can hold up to five V.I.A. cards.

This document describes how to remove and replace either the Primary or Secondary card cage in a NEO 8000 Library from Overland Storage.

**CAUTION:** Be sure you have the correct part for the card cage being replaced. The Primary card cage has special connections for the Library Controller card. The Secondary card cage lacks these connections and cannot be used in place of the Primary.

### Unpacking the Spare

Carefully unpack the spare part and verify that you have all the parts:

- Card cage assembly
- Three M3x8mm Phillips panhead screws
- Three M3x10mm Phillips panhead screws
- These Remove & Replace Instructions

### Electrostatic Discharge Information

A discharge of static electricity can damage micro-circuitry or static-sensitive devices. To help prevent electrostatic damage, observe the following precautions:

- Transport and store items in static-safe containers.
- Keep electrostatic-sensitive parts in their containers until they arrive at static-free stations.
- Use a wrist strap and properly-grounded tools.
- Make sure you are always properly grounded when touching a static-sensitive component or assembly.
- Keep the work area free of non-conductive materials.
- Avoid touching pins, leads, or circuitry.

## Preparing the Library for Replacement



**WARNING:** The library's GUI touch screen does not completely shut off NEO 8000 system power. To reduce the risk of electric shock or damage to equipment, unplug both power cords.

1. **Power down** the library, set the library circuit breakers to **OFF** ("O"), and remove the power cords.
2. Locate the **card cage** being replaced (Figure 1).
3. Remove **all network cables** from the V.I.A. cards in the card cage noting where they connect.
4. Remove all the **PCI cards** from the card cage.

**CAUTION:** Follow ESD procedures when handling each card.

5. Remove any **slot covers** from the card cage.

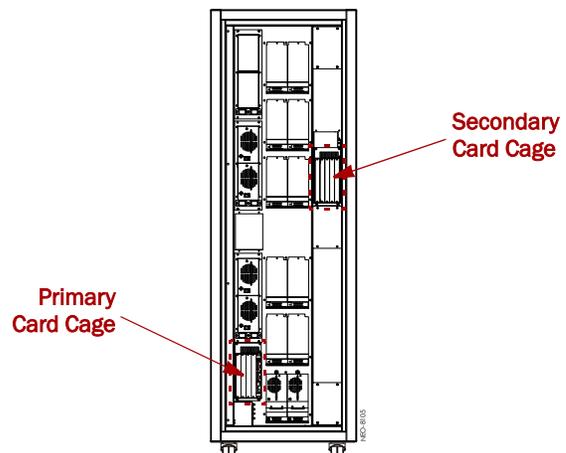


Figure 1. NEO 8000 Card Cage Locations

## Replacing the Card Cage

1. Remove the three **M3x10mm** screws on the blower assembly, pull the assembly out, disconnect the wiring, and remove the assembly (Figure 2).

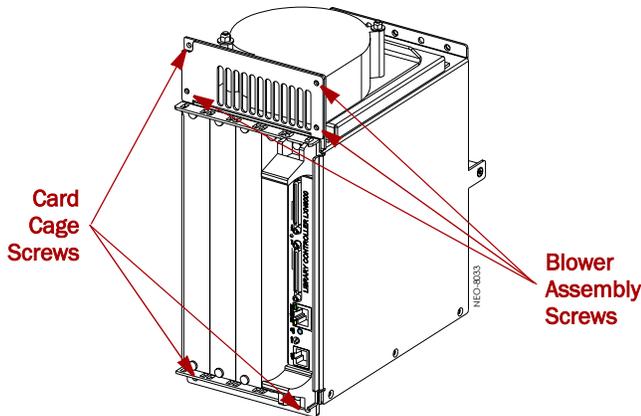


Figure 2. Location of Blower/Card Cage Assembly

2. Remove the three **M3x8mm** screws on the **card cage** assembly and pull the it out to **access the connectors** located on the back.
3. Carefully label and remove all the **cable harnesses** from the PWA on the back of the card cage.
4. Replace the old **card cage** with the new one.
5. Reconnect all the **cable harnesses** to the PWA of the new card cage.
6. Carefully slide the new card cage back into the opening and refasten it with the three new **M3x8mm** screws.
7. Reconnect the **blower assembly** wiring, push the assembly back in place, and refasten it with the three new **M3x10mm** screws.

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**CAUTION:** Be sure to use the **10mm** screws for the **blower** assembly. Using the shorter 8mm card cage screws may strip the threads and prevent proper assembly.

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## Reactivating the Library

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**CAUTION:** When replacing the Primary card cage, be sure to reinstall the Library Controller card in the right-most slot.

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1. Reinstall all the **PCI cards** and tighten their hold-down **screws**.

2. If necessary, reinstall any **slot covers** on the card cage.
3. Reconnect all the **network cables** to the appropriate PCI cards.
4. Reattach the **power cords** and turn on both **circuit breakers** to power up the library.

Wait for POST to complete before using the library.

### Getting Help

You can get technical support on the Internet at [support.overlandstorage.com](http://support.overlandstorage.com), or call 1-877-654-3429 (toll-free U.S. & Canada) or 858-571-5555x5 (International).

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