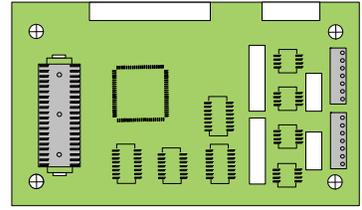


# Spare Z-Axis PCB

## Remove & Replace Instructions



### 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.

This document describes how to remove and replace the Z-Axis Printed Circuit Board (PCB) in a NEO 4000 or NEO 4000E library from Overland Storage.

**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.

#### Unpacking the Spare

Carefully unpack and verify that you have all the parts:

- Z-Axis PCB in an anti-static bag
- Four (4) M3x8mm panhead Phillips SEMS screws (with captive washers)
- 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.

### Preparing the Library

1. If the library is **operational**:
  - a. Using the Graphical User Interface (GUI) or the application software, remove any **cartridges** from the drives to prevent damage.
  - b. Exit the **application software** and, if necessary, stop the software services.
  - c. Use the GUI to remove **all** the magazines.

**IMPORTANT:** If the library is non-operational, the doors can be manually opened by pushing a stiff wire through the manual release holes in the front panel.

2. **Power off** the library as follows:
  - a. Use the **GUI** to power down the library.
  - b. Turn the **power supply** switches to OFF (O).
  - c. Remove the **power cords**.
3. Remove all **external host cables**.
4. Also, to reduce weight, we recommend removing the **drive assemblies**.

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

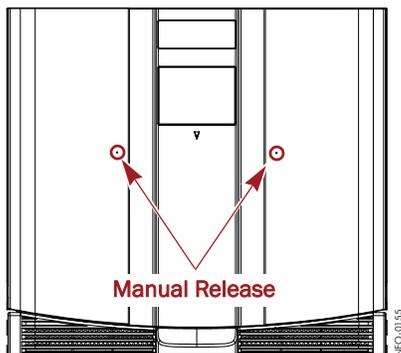


Figure 1. Manual Door Release Locations

5. Using a mechanical lifter (or two people), remove the **unit** from the rack and place on a secure ESD surface.
6. Remove and retain the **two screws** securing the front cover.
7. Lift and remove the **front cover**, and set aside.

## Replacing the PCB

1. Disconnect the three cables connected to the Z-Axis PCB (Figure 2).

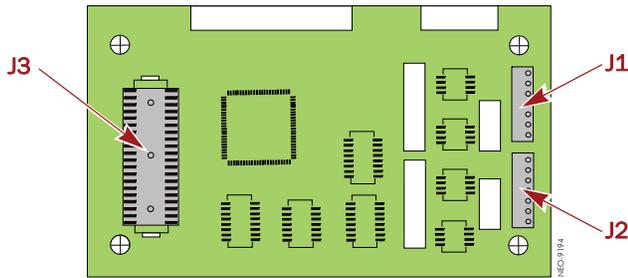


Figure 2. Remove Z-Axis PCB Connections

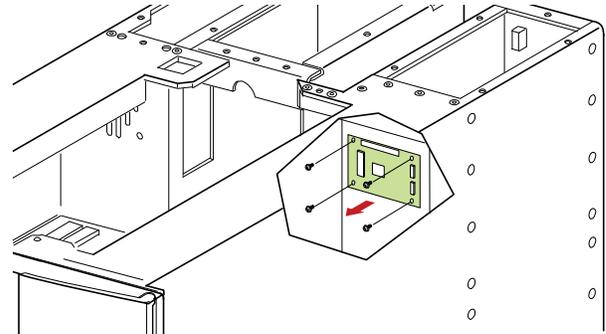


Figure 3. Remove the Screws

2. Remove the **four SEMS screws** securing the PCB to the chassis (Figure 3), and set the old PCB aside.

3. Using the **four new M3x8mm SEMS screws**, secure the new PCB into the chassis.
4. Reconnect the **three cables** to the new PCB.

## Power On and Test the Library

### Power On Library

Before returning the unit to the rack, verify that it works.

1. On SCSI systems, confirm that the **terminators** are still in place.
2. Plug in the **power cords**.
3. Turn the power supply **switch** to ON (I).
4. Tap the **GUI** to power on the library.
5. Observe the **shuttle assembly and track** movement during the POST process to verify the installation of the Z-Axis PCB.

**NOTE:** If problems occur, contact *Overland Technical Support*.

### Power Off Library

1. Use the **GUI** to power down the library.
2. Turn the **power supply** switches to OFF (O).
3. Remove the **power cords**.

### Reinstall Library

1. Slide the **front cover tabs** into their slots and gently set the cover into place.
2. Reinstall the **two retained cover screws**.
3. Using a mechanical lifter (or two people), reinstall the **library** into the rack.
4. Manually open the doors and reinstall the **magazines**.
5. Reinstall any removed **drive assemblies**.
6. Reattach all **external host cables**.
7. Plug in the **power cords**.

The library is ready to be reactivated.

### Return Old Part

1. Place the removed parts in the replacement **part box**.
2. Return the **parts** to Overland Storage.

### 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).