

Hardware replacement tips

Part replacement highlights

Lenovo

Screw types

Prepare the following screwdrivers for SC750 V4 and N1380 part replacement:

- Torx T10 screwdriver
- Torx T20 screwdriver
- Torx T30 screwdriver
- Phillips #1 screwdriver
- Phillips #2 screwdriver

Follow the instructions in the User Guide to select the proper screwdriver to replace different parts.

Step 2. Remove 16x PH1 screws to remove the rear cross brace.

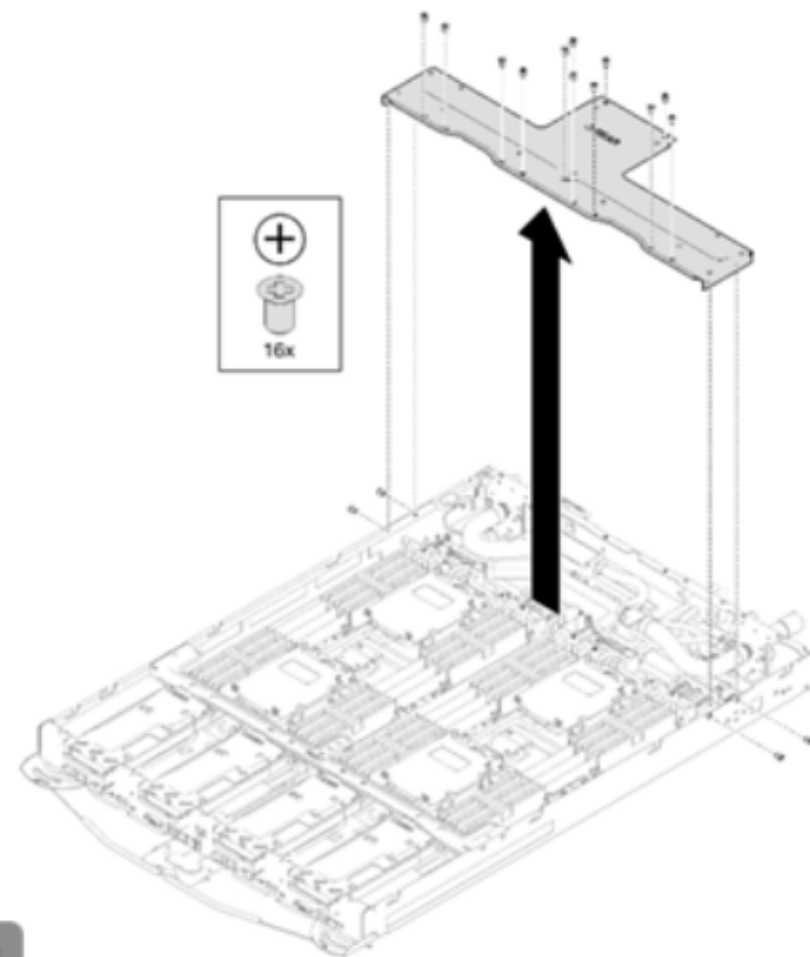


Figure 12. Removing the rear cross brace

N1380 screwdriver kit for PCS and manifold

The N1380 screwdriver kit for PCS and manifold (part number: 03ND262) is required for service actions that involve the removal or installation of the PCS cage and manifold. The kit includes the following two screwdrivers:

- Stubby screwdriver, PH1, 75 mm: Needed to fasten and unfasten PCS cage side screws
- Extended screwdriver, PH2, 300 mm: Needed to fasten and unfasten manifold captive screws



Stubby screwdriver



Extended screwdriver

Torque screwdriver

The replacement of SC750 V4 or N1380 parts – for example, a water loop or EIA covers – requires a torque screwdriver (part number: 03GY000) set to the proper setting. Refer to the User Guide for complete torque setting information for SC750 V4 and N1380 parts replacement.

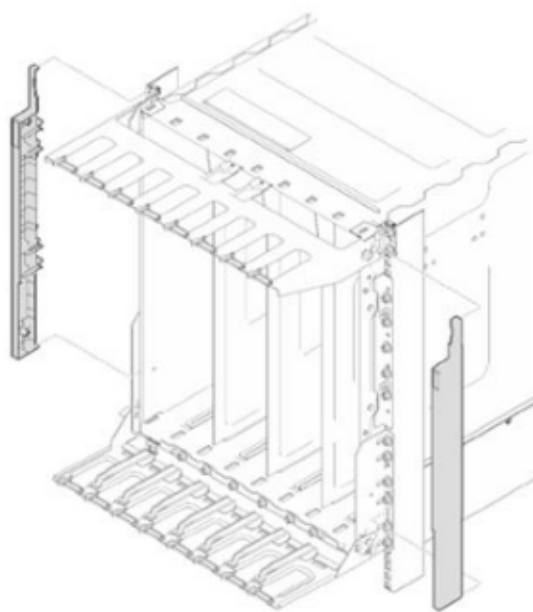


Figure 45. Installing EIA covers

- b. Install two screws to each rack post to secure the EIA covers, with a torque screwdriver set to the torque 5.0+/- 0.5 lbf-in (or 0.55+/- 0.05 N-M).

Step 7. Loosen processors properly.

- a. 1 Fully loosen all Torx T30 captive screws on cold plates (8x Torx T30 captive screws per nodes) following the screw sequence label on the shipping bracket, with a torque screwdriver set to the proper torque.

Notes:

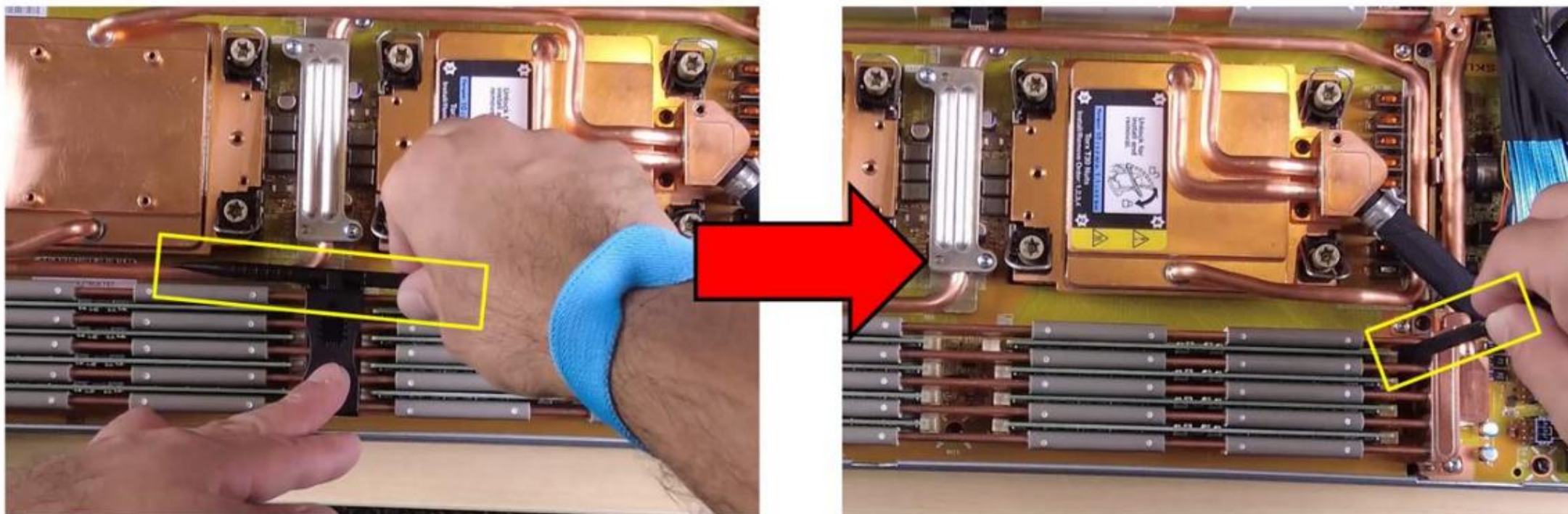
- For reference, the torque required for the screws to be fully tightened/removed is 8+/- 0.5 lbf-in, 0.9+/- 0.05 N-m.
- To prevent damage to components, make sure that you follow the indicated tightening/loosening sequence.



Figure 238. Screw tightening/loosening sequence on the shipping bracket label

DIMM tool

Due to space limitations inside the SC750 V4, a DIMM tool is recommended when opening the retaining clips to remove or install a DIMM. The DIMM tool is fitted in the CPU node.



Installation guidelines for gap pads in the SC750 V4

There are two types of thermal pads: gap pads and single-use gap pads. When removing components, replace all the single-use gap pads and any damaged or detached gap pads.

Note: Do not use expired gap pads. Check the expiry date on the gap pad package and throw away expired pads.

Click [HERE](#) to see a picture of an expiry date label.

Check the [Gap pad identification and location](#) section of the SC750 V4 User Guide to see the location of water loop gap pads.

Attention: The gap pads used on some parts are designated as single-use. These gap pads must be replaced every time a part is replaced. Check the SC750 V4 [User Guide](#) for detailed information.

Figure 4. ConnectX-7 NDR adapter gap pads

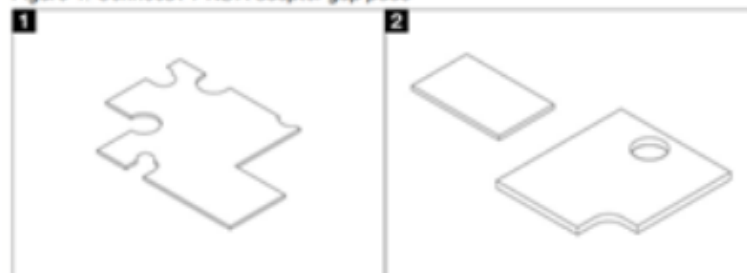


Table 3. ConnectX-7 NDR adapter gap pads

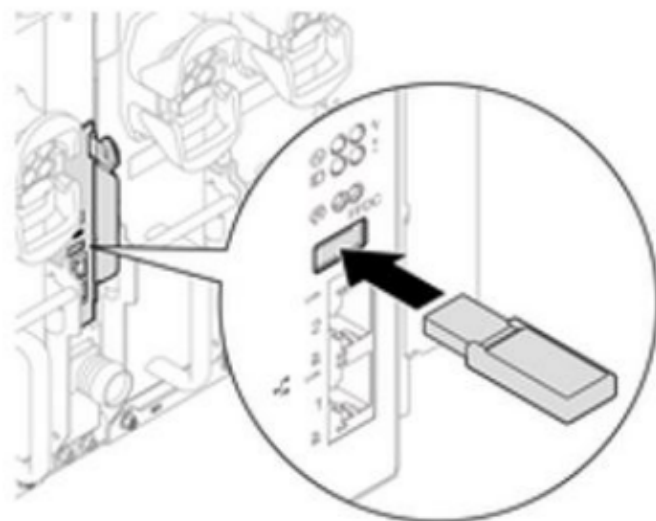
Pad number	Component installation requiring the pads	Scenario requiring pad replacing	Pad attaching location	Pad attaching instructions
1	Install a ConnectX-7 NDR 400 adapter riser assembly.	Single-use gap pads. Replace the pads whenever the ConnectX-7 NDR 400 riser assembly is removed.	ConnectX-7 NDR 400 interface plate	1. There are two plastic films on the pad, one is transparent, the other has printing on it. 2. Peel off the transparent plastic film, and attach this side to the cold plate.
2	Install a ConnectX-7 NDR 200 adapter riser assembly.	Single-use gap pads. Replace the pads whenever the ConnectX-7 NDR 200 riser assembly is removed.	ConnectX-7 NDR 200 interface plate	3. Peel off the other plastic film.

SMM3 settings and enclosure VPD

SMM3 settings and enclosure VPD can be backed up with a USB flash drive connected to the SMM3 USB slot. If necessary, users also can restore this SMM3 information to a replacement SMM3.

Refer to the next two slides for step-by-step procedures.

The SMM3 configuration can also be backed up through the Network.



Backing up SMM3 settings and enclosure VPD

- Connect the USB flash drive to the SMM3
- Log in to the SMM3 web interface
 - SMM3 default IP address: 192.168.70.100
 - SMM3 default ID: USERID (all capitals)
 - SMM3 default password: PASSWORD (0=zero)
- Go to **Settings → Backup and Restore** and back up the SMM3 configuration to SMM USB storage
- Go to **System → Inventory → Enclosure** to perform a data backup
- When the data backup is complete, remove the USB flash drive from the SMM3

Backup SMM Configuration

Note that you will be asked for this password when you use the file to restore a configuration.

Password

Password must be between 8 – 20 characters

Confirm password

Backup to

☐ SMM USB Storage ☒ Client Storage



BackUp

Restoring SMM3 settings and enclosure VPD

Connect the USB flash drive to the replacement SMM3

- Log in to the SMM3 web interface
 - SMM3 default IP address: 192.168.70.100
 - SMM3 default ID: USERID (all capital)
 - SMM3 default password: PASSWORD (0=zero)
- Update the SMM3 firmware to the latest level
- Go to **Settings** → **Backup and Restore** and restore the SMM3 configuration from the SMM USB storage
- Go to **System** → **Inventory** → **Enclosure** to perform a data restoration
- Use the serial number and machine type of the replacement SMM3 to update the information on the enclosure label
- Go to **Systems** → **Inventory** → **Interposer** and update the UUID
- When the data restoration is completed, remove the USB flash drive from the SMM3


Restore SMM from Configuration File

Note that you need to provide a BMC backup file and corresponding password.

Restore from

☒ SMM USB Storage ☐ Client Storage

Password



Interposer	
Name: Interposer	Part number: STA7B44636
Serial number: ---	FRU part number: Q3NC757
EC level: ---	UUID: 12345678-9abc-def0-1234-56789abcdef1
<hr/>	
Manufacturer: COML	Hardware version: 03
Item creation date: 2024-08-26 00:00:00	