

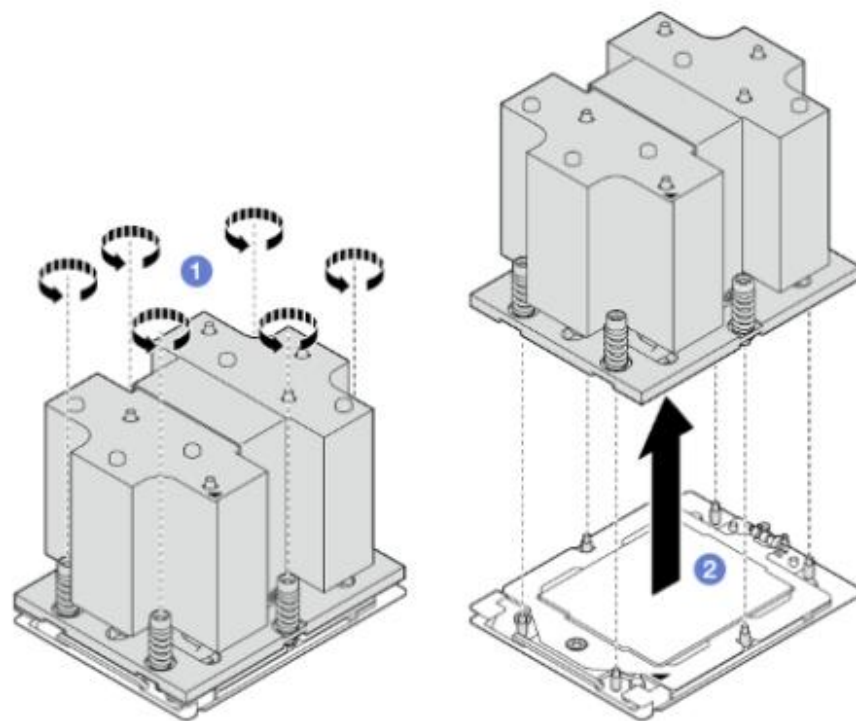
Hardware replacement tips

Part replacement highlights

Lenovo

Replacing a CPU heat sink

The SR675 V3 CPU heat sink replacement procedure requires a Torx T20 torque screwdriver. Follow the removal sequence instructions and torque settings shown on the heat sink label to remove or install a heat sink.



Replacing a firmware and RoT module

After replacing a firmware and RoT security module (RoT module), servicers must update the UEFI and LXPM firmware to the latest supported version before starting the system. If this does not happen, the system will not be able to recognize the correct firmware and will not start normally. As a result, the user will not be able to access the system OS.

Use one of the following methods to update the UEFI and LXPM firmware on the system after replacing the RoT module:

- OneCLI commands
- A USB boot kit with UEFI firmware and LXPM firmware packages
 - For more information on how to create a USB boot kit, refer to the following GLOSSE article: [How to create USB boot kit with OneCLI for RoT replacement in the field](#)

For the complete procedures, refer to the following GLOSSE tip page:

[How to do RoT Module FW update on ThinkSystem V3 machines](#)

Updating the VPD

After replacing a processor board, service personnel must update the VPD (machine type and serial number) on the processor board. The SR675 V3 VPD update procedure is the same as that used with other ThinkSystem models (using the `onecli config set` OneCLI command).

Replacing an RoT module or system I/O board does not require an update of the VPD.

For more information, refer to the LXCE OneCLI common task section of course [ES51757B](#) [Introducing ThinkSystem tools](#), or the Update the Vital Product Data (VPD) section of the ThinkSystem SR675 V3 User Guide on [Lenovo Docs](#).

Replacing parts with a torque screwdriver

Replacement of the following parts requires a torque screwdriver with adjustable newton-meter settings:

- Heat sink
- SXM GPU
- SXM GPU board
- LACM

For the newton-meter settings required to replace the above parts, refer to the Hardware replacement procedures section of the SR675 V3 User Guide on [Lenovo Docs](#).

Replacing a processor board or system I/O board

To replace a processor board or system I/O board, servicers must first remove the system board assembly from the chassis. A hex socket tool kit (FRU PN: 03LD316), a PH2 screwdriver, and a PH1 screwdriver must then be used to remove the following components from the system board assembly:

- Two spacers (with an 8 mm hex socket)
- Five guide pins (with a 7 mm hex socket)
- Two hex nuts (with a 5 mm hex socket)
- One lifting handle (with a PH2 screwdriver)
- Two screws on the cable wall bracket (with a PH2 screwdriver)
- Eleven screws on the system board assembly (with a PH1 screwdriver)

The system board assembly can then be separated from the supporting sheet metal, and following that, the system I/O board can be separated from the processor board.

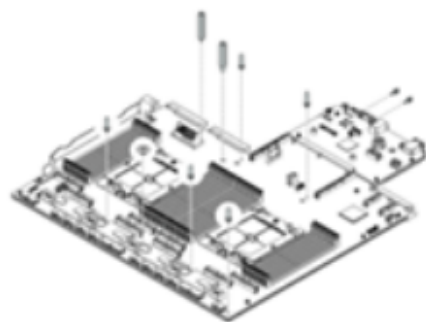
For the complete system board assembly replacement procedures, refer to the Hardware replacement procedures section of the SR675 V3 User Guide on [Lenovo Docs](#).

7. Remove the system I/O board from the processor board.
- a. Separate the system board assembly from the supporting sheet metal.

i. Remove the following components as illustrated:

- Two spacers (with 8 mm wrench)
- Five guide pins (with 7 mm wrench)
- Two hex nuts (with 5 mm wrench)
- One lifting handle (with PH2 screwdriver)

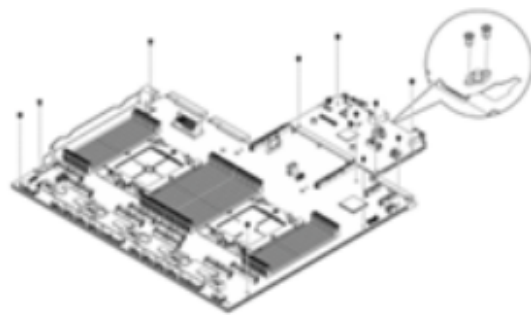
Figure 3. System board assembly disassembly



ii. Remove the following components as illustrated:

- Two screws on the cable wall bracket (with PH2 screwdriver)
- Eleven screws on the system board assembly (with PH1 screwdriver)

Figure 4. System board assembly disassembly



Cable replacement tips

Cable routing on the SR675 V3 is more complex than on other rack systems. Although there are labels on cables and next to each connector, service engineers might still get confused when replacing cables.

When replacing a system board or SXM GPU board in the SR675 V3, it is recommended that you take pictures of the cable routing before disconnecting anything.

For more information about SR675 V3 cable routing, refer to the Internal cable routing section of the SR675 V3 User Guide on [Lenovo Docs](#).

Summary

This course enabled you to:

- Describe the ThinkSystem SR675 V3 server and components
- List the SR675 V3 server specifications
- Describe the SR675 V3 server configurations and block diagrams
- Describe the SR675 V3 server management tools
- Describe the problem determination steps and explain how to troubleshoot issues with the SR675 V3