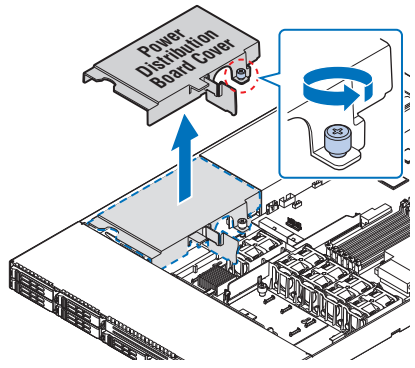


# 11 Install Active System (Product Code: SR1625URSAS) Components ... for a Passive System, go to Step 12

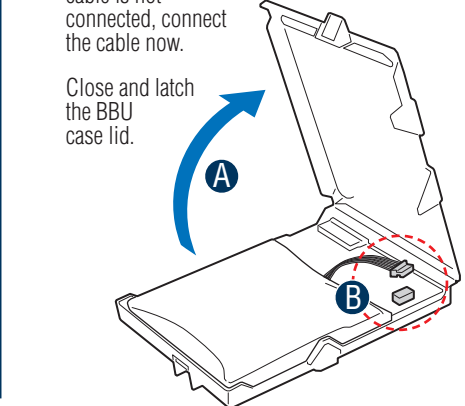
## Remove Power Distribution Board Cover (optional)

This step is only necessary if you are installing the optional RAID Battery Backup Unit (BBU).



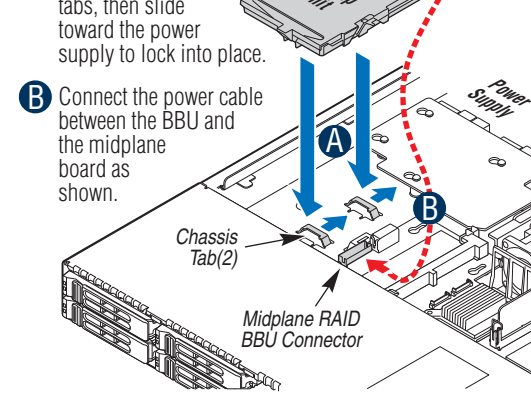
## Check RAID BBU Battery Connection

- A** The RAID BBU has an internal battery power cable. Open the BBU case lid as shown.
  - B** If the battery power cable is not connected, connect the cable now.
- Close and latch the BBU case lid.



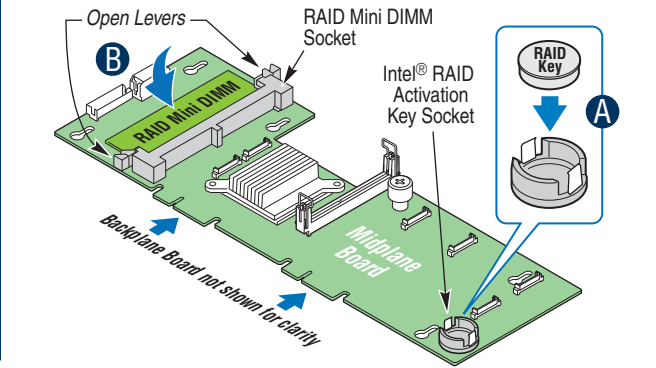
## Install RAID Battery Backup Unit (optional)

- A** The RAID BBU has two hooks on the underside. Align these hooks with the matching chassis tabs, then slide toward the power supply to lock into place.
- B** Connect the power cable between the BBU and the midplane board as shown.



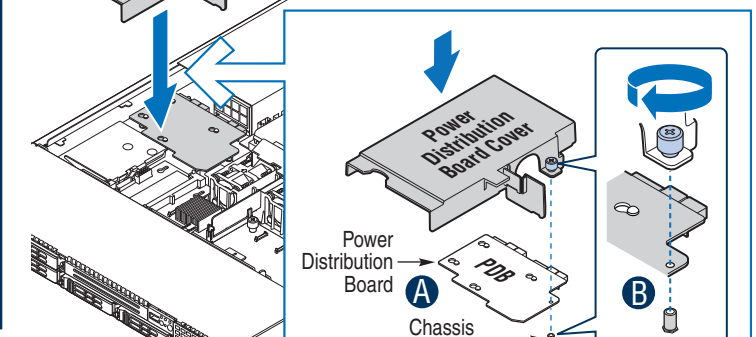
## Install RAID DIMM and RAID Activation Key (optional)

- A** Insert the Intel® RAID Activation Key into the midplane board socket as shown. Make sure the key snaps into the socket.
- B** Open RAID mini DIMM socket levers and insert connector edge of mini DIMM into socket until levers close and snap into place.



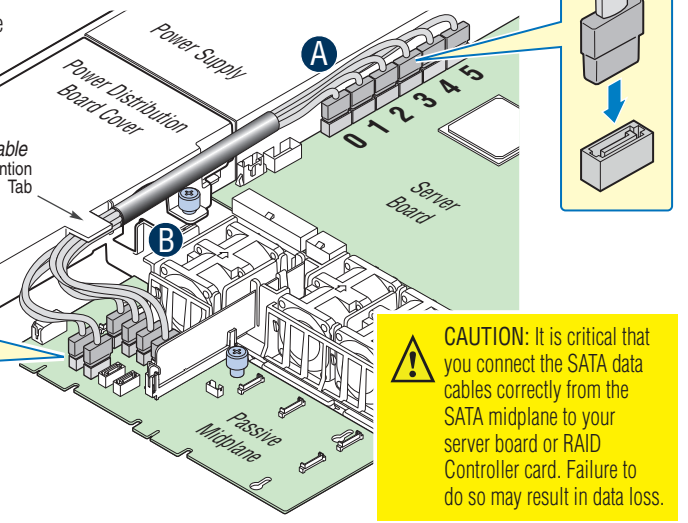
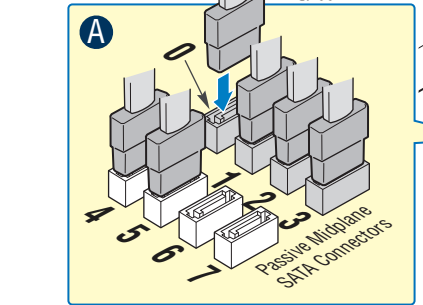
## Install Power Distribution Board (PDB) Cover

- A** Install power distribution board cover by aligning with the power distribution board and the matching thumbscrew hole.
- B** Note that the thumbscrew attaches to a chassis standoff underneath the PDB. If the PDB is not installed correctly, the thumbscrew will not align with the standoff.



# 12 Install Passive System (Product Code: SR1625UR) Components ...for an Active System, go to Step 11

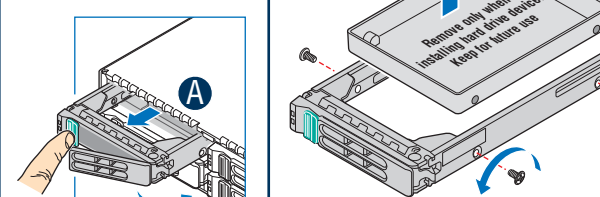
- A** Connect SATA cables from passive midplane board to server board as shown.
- B** Route cables under the retention tab and alongside the power supply as shown to allow clearance for a full-height PCI add-in card.



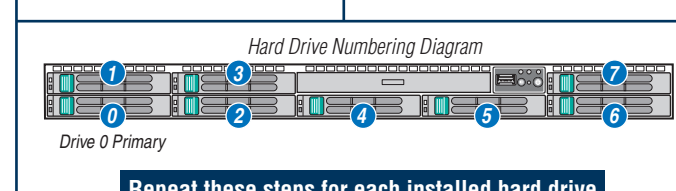
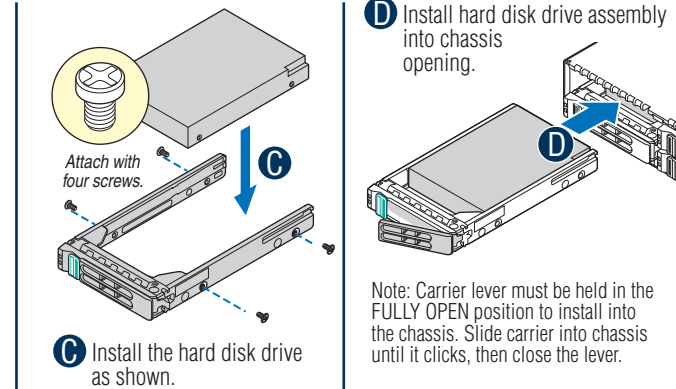
**CAUTION:** It is critical that you connect the SATA data cables correctly from the SATA midplane to your server board or RAID Controller card. Failure to do so may result in data loss.

# 13 Install Hard Drives/Carriers

- A** Remove the drive carrier by pressing in on the green latch, pulling out on the black lever and sliding the drive carrier out.
- B** Remove the plastic air baffle and save for future use.



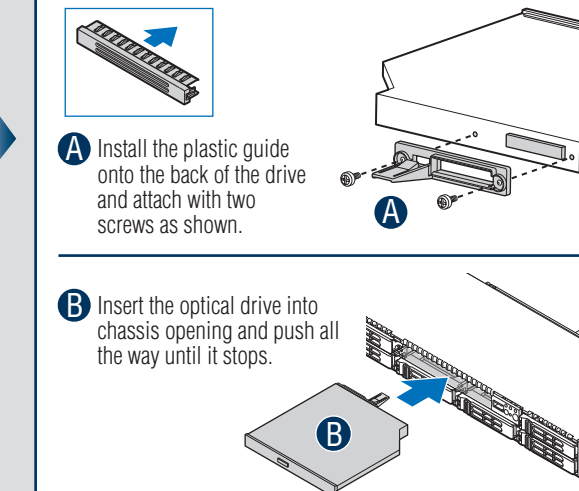
**CAUTION:** If you install less than eight drives or devices, empty drive bays must be occupied by carriers with baffles or with a filler panel provided for drive locations 6 and 7 to maintain proper system cooling.



Repeat these steps for each installed hard drive

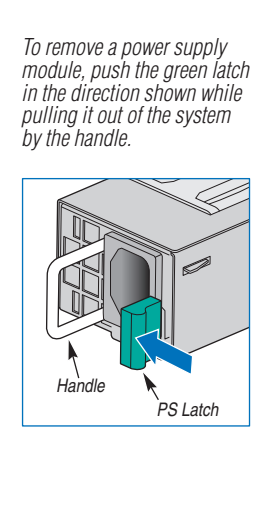
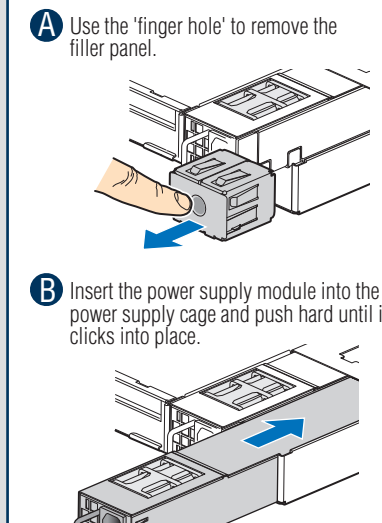
# 14 Install Optical Device

**IMPORTANT NOTE:** If you do not install a device at this location, install the optical device bay filler panel shown below. This is required to maintain proper system cooling.



# 15 Install Second Power Supply (optional)

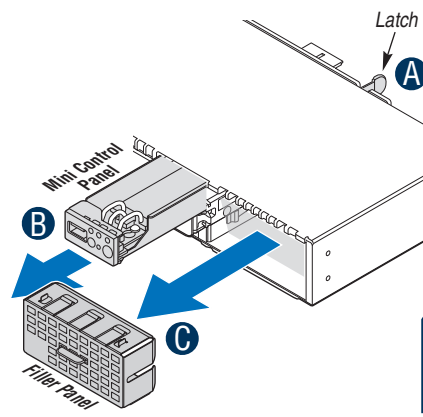
- A** Use the 'finger hole' to remove the filler panel.
- B** Insert the power supply module into the power supply cage and push hard until it clicks into place.



# 16 Install Standard Control Panel or Intel® Local Control Panel (optional)

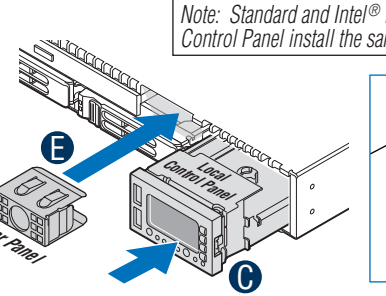
## Remove the Mini Control Panel

- A** Press the latch at the back of the mini control panel and push the control panel forward to release it from the chassis.
- B** Slide the mini control panel out through the front of the server system.
- C** Remove the filler on the right as shown.



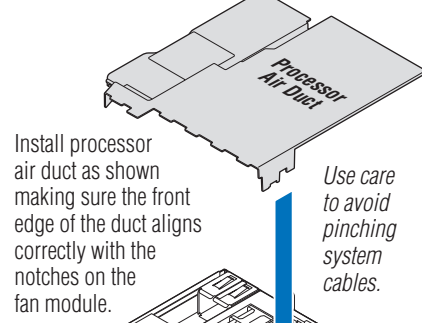
## Install the Standard or Intel® Local Control Panel

- A** Connect the USB and data cables to the replacement control panel as shown.
- B** Feed the control panel cables into the chassis opening.
- C** Slide the control panel fully into the server system until it clicks into place.
- D** Connect the two cables to the USB and control panel connectors on the back side of the backplane as shown.
- E** Install the mini control panel filler panel.



Note: Standard and Intel® Local Control Panel install the same.

# 17 Install Processor Air Duct

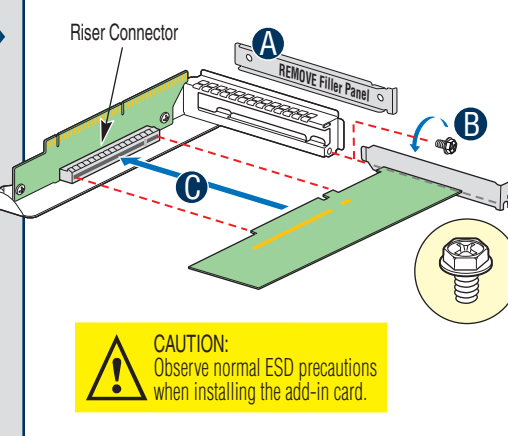


Install processor air duct as shown making sure the front edge of the duct aligns correctly with the notches on the fan module.

Use care to avoid pinching system cables.

# 18 Install Add-in Card (optional)

- A** Remove filler panel from the add-in card slot.
- B** Remove the screw as shown.
- C** Insert add-in card until it seats in riser connector.
- D** Secure the add-in card with screw as shown.

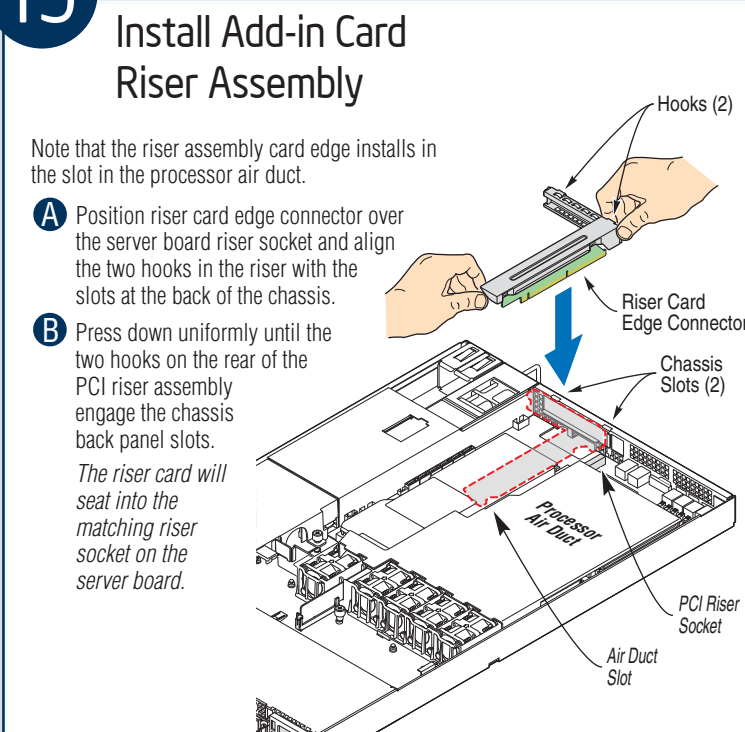


**CAUTION:** Observe normal ESD precautions when installing the add-in card.

# 19 Install Add-in Card Riser Assembly

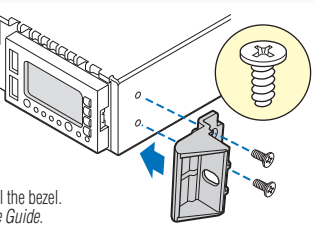
- A** Position riser card edge connector over the server board riser socket and align the two hooks in the riser with the slots at the back of the chassis.
- B** Press down uniformly until the two hooks on the rear of the PCI riser assembly engage the chassis back panel slots.

The riser card will seat into the matching riser socket on the server board.



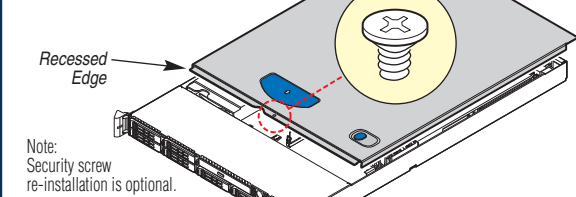
# 20 Install Rack Handles

Note: Rack handles are required to install the bezel. For detailed instructions, see the Service Guide.



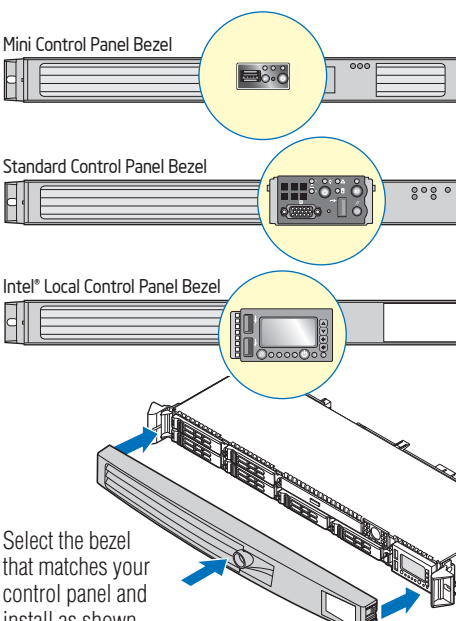
# 21 Install Top Cover

- A** Place cover as shown, slide forward to engage recessed edge at front of cover. Make sure latch is locked.



Note: Security screw re-installation is optional.

# 22 Install Bezel (optional)

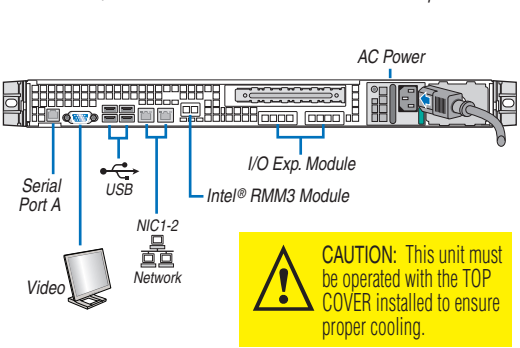


Select the bezel that matches your control panel and install as shown.

# 23 Finishing Up

Before installing your operating system, you must finish your system installation, make I/O connections, and plug in AC power.

- Replace the system cover.
- Install the server into the rack using the instructions provided with the rack mounting kit.
- Connect your USB keyboard/mouse, video and other I/O cables/devices as shown. Then connect the AC power cord.



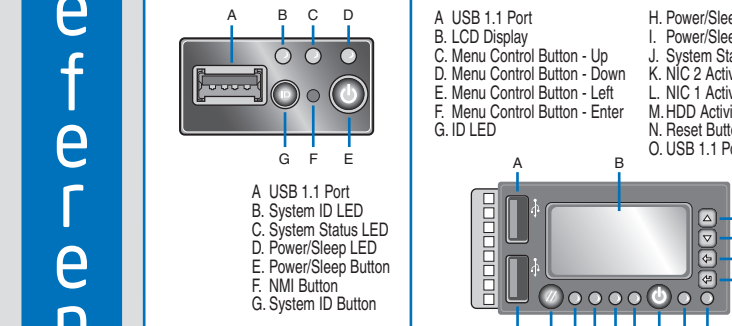
**CAUTION:** This unit must be operated with the TOP COVER installed to ensure proper cooling.

# 24 Software - BIOS, Drivers, and Operating System Installation

- A. Update the System Software:**
  - Boot from the Intel® Server Deployment Toolkit CD.
  - Use the Wizard to access the latest versions on the Internet and update the BIOS, firmware, FRUSDRs, and Intel® RMM3s.

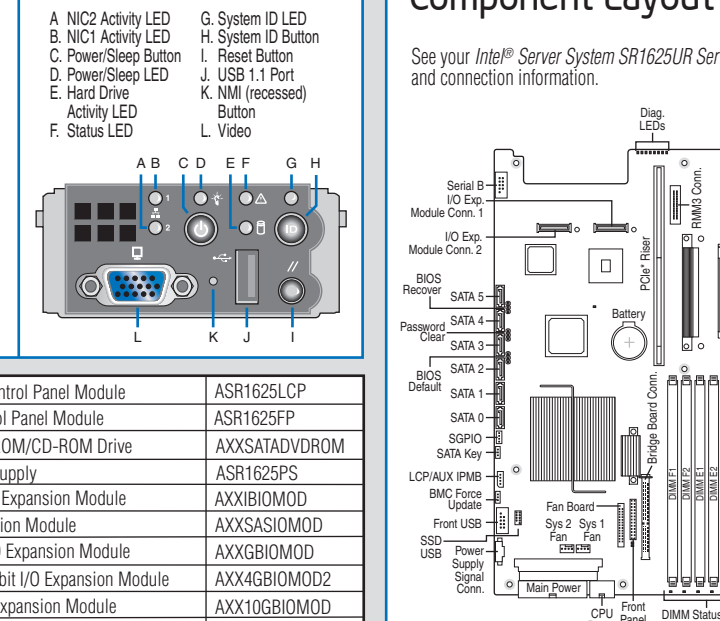
Note: You can also use downloaded files on a USB key.
- B. Configure your RAID Controller:** If using a RAID card, use the instructions provided with the RAID controller. If using on-board RAID, you must activate RAID in the BIOS setup. See the Intel® Server Board S5520UR Technical Product Specification for more information.
- C. Install your Operating System:** Use the instructions provided with the RAID controller and with the operating system.
- D. Install Operating System Drivers:** With the operating system running, insert the Intel® Server Deployment Toolkit CD. If using a Microsoft Windows® operating system, the Express Installer will autorun and allow you to select the appropriate drivers to install. On other operating systems, browse the CD folders to locate and install the driver files.
- E. Install Intel® System Management Software (optional):** Download the latest version of the Intel® System Management Software from <http://www.intel.com/go/servermanagement> and use the instructions provided at that link to install the software.

# Reference Front Panel Controls and Indicators



Optional Accessories and Order Codes	
Tool-less Rail Kit	AXXHERAIL2
Cable Management Arm	AXXRACKARM2
Basic Slide Rail Kit	AXXBASRAIL13
Fixed Rack Brackets	AXXBRAKETS
Bezel for Standard Control Panel	ASR1550BEZ
Bezel for Intel® Local Control Panel	ASR1550LCDBEZ
Bezel for Intel® Mini Control Panel	ASR1550MINBEZ
RAID Activation Key	AXXRAKASAS2
RAID Mini DIMM	AXXMINDIMM512
Intel® Local Control Panel Module	ASR1625LCP
Standard Control Panel Module	ASR1625FPC
Slimline DVD-ROM/CD-ROM Drive	AXXSATDVDROM
650-W Power Supply	ASR1625PS
InfiniBand® I/O Expansion Module	AXXBIOIMOD
SAS I/O Expansion Module	AXXSASIOIMOD
Dual Gigabit I/O Expansion Module	AXXGIBIOMOD
Quad-Port Gigabit I/O Expansion Module	AXX4GIBIOMOD2
10 Gigabit I/O Expansion Module	AXX10GIBIOMOD
Intel® Remote Management Module 3	AXXRM3

# Intel® Server Board S5520UR Component Layout



Available Documents	Content
Document/Tool	In-depth technical information
Technical Product Specification	Supported accessories and spares list
Spares, Parts List, and Configuration Guide	Tested peripherals and operating systems list
Server Configurator Tool	Tested memory list
Software and Drivers	Supported processors list
	Up-to-date firmware, driver, and utility information

A link to the above documents, Server Configurator Tool, and the Software and Drivers web page can be found at: <http://support.intel.com/support/motherboards/server/s5520ur/>