8 Install PCI Add-in Card(s)

A Remove screw from the selected back panel slot.
B Remove filler panel from the selected add-in card slot by pushing it out with your finger.
C Insert add-in card until it seats in the riser connector.
D Secure add-in card with screw as shown.

CAUTION: Observe normal ESD precautions when installing add-in cards.

9 Install Optical Drive (optional)

A Disconnect floppy drive power cable and the front panel USB and front panel ribbon cables as shown.
Note: It is not necessary to disconnect the server board ends of these cables.

B Remove front panel board.
1) Remove screw.
2) Slide rearward to release from pins.
3) Lift straight up and remove board.

C Remove drive bracket assembly.
1) Remove four screws securing bracket to chassis.
2) Slide bracket rearward to release floppy device from front panel and remove.

D Install optical drive into bracket.
1) Insert optical drive into the bracket.
2) Align with matching bracket holes and attach with four screws as shown.

E Remove front panel knockout.

F Install optical drive/floppy combo.
1) Insert optical drive/floppy combo into the chassis.
2) Align with matching chassis holes and attach with four screws as shown.

G Remove light pipes from front panel board as shown.
1) Remove three-pipe assembly first.
2) Remove two-pipe assembly last.

H Install front panel board.
1) Insert board onto guide pins.
2) Slide board forward to lock.
3) Secure board with screw as shown.

Guide Pin (2)

I Re-install light pipes to front panel board as shown. Note that the small light pipe must be installed first.
1) Rotate base of light pipe upward and insert pipes into front panel.
2) Rotate light pipe downward and into the two matching holes on the front panel board. Press into place.

Small Pipe
Large Pipe

J Reconnect floppy power cable, front panel ribbon cable and front panel USB cable.

K Install optical drive power/data cables.
1) Attach data ribbon cable to server board, then attach other end to back of drive.
2) Attach power cable to back of drive.

10 Install Processor Air Duct

A If you have installed two processors, break off and remove the air dam as shown.

Break this

CAUTION: To maintain proper system cooling, perform this step only if TWO processors are installed.

B Install processor air duct as shown.
Note: Use care to avoid pinching system cables.

11 Install the Top Cover

A Place cover onto chassis and slide forward.
Note: Use care to avoid pinching system cables.
B Install three screws at front.

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

12 Install Rack Handles (Optional)

A Attach each rack handle with two screws as shown.

13 Install Rail Kit (Optional)

See the documentation that came with your selected rail kit for installation instructions.

14 Install the Bezel (Optional)

15 Finishing Up

Before installing your operating system, you must finish your system installation and connect back panel I/O connectors and AC power.
1. Make sure you have replaced the system cover.
2. Connect your keyboard, mouse, video and other I/O cables/devices as shown. Then connect the AC power cords.
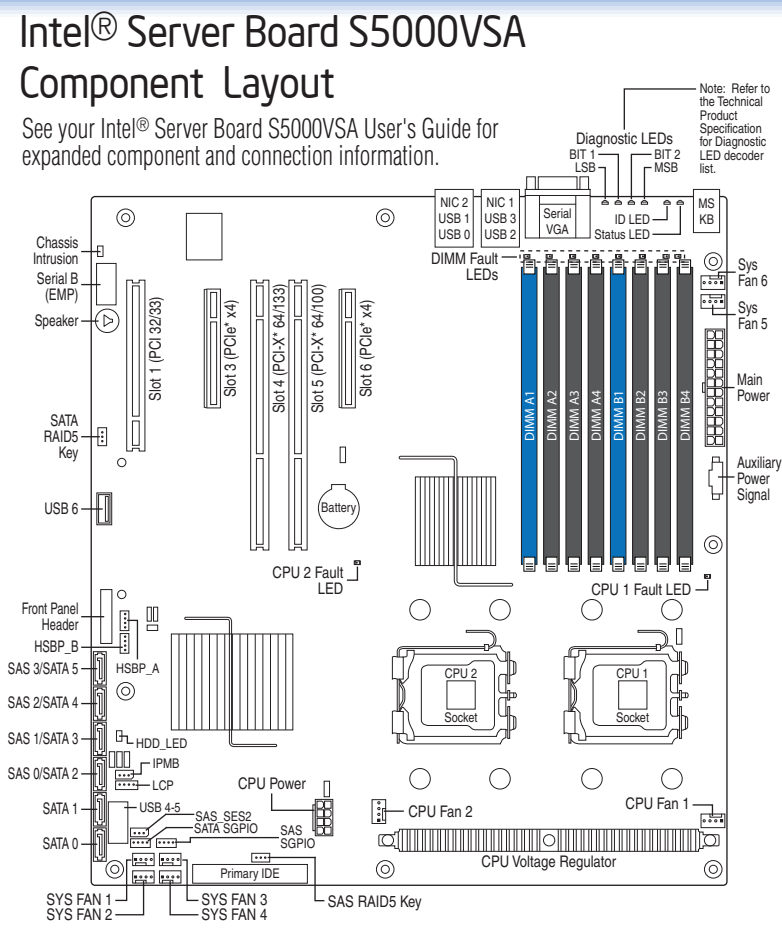
AC Power | AC Power | Mouse | Serial Port B | NIC1-2 Network
Keyboard | Video | USB 2, 3 | USB 0, 1

16 Install Software • BIOS, Drivers, and Operating System Install

A. Confirm BIOS Version: Look on the Server/System Management screen in the BIOS Setup Utility to determine the installed BIOS version. Compare this to the versions at: http://support.intel.com/support/motherboards/server/s5000vsa
If new versions are available, update the BIOS on your server. See the User Guide on the Intel® Server Deployment Toolkit 2.0 CD for update instructions.

B. Configure your RAID Controller: Use the instructions provided with the RAID controller.

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 2.0 CD. If using a Microsoft* Windows* operating system, the 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.

Front Panel Controls and Indicators
(shown with bezel removed)

A. NIC 1 LED
B. NIC 2 LED
C. Power LED
D. Status LED
E. HDD Activity LED
F. USB 2.0 Port
G. Power Button

Reference

Intel® Server Board S5000VSA Component Layout

See your Intel® Server Board S5000VSA User's Guide for expanded component and connection information.

Optional Accessories and Order Codes

Description	Code
Fixed Mount Bracket – supports 4 post mounting and 2 center post mounting	AXXBRACKETS
Intel® Server Chassis SR2520 locking black bezel	ADRBEZBLACK
Black 3.5-inch hot-swap drive carrier spare	FXX10DVCARBLK
Spare basic slide rail kit – does not support Cable Management Arm	AXXBASICRAIL
Spare internal slimline floppy kit	AXXUSBFLOPPY
Spare North America power supply cable	FPWRCABLENA
Intel® Server Chassis SR2520 spare 600-W redundant power supply	TLIACPSU003
SAS/SATA hot-swap static backplane with drive activity and drive failure LEDs	FRS2520BPSAS
SATA hot-swap static backplane with drive activity and drive failure LEDs	FRS2520BPSATA
Spare power distribution board for redundant power supply systems using the Intel® Server Chassis SR2520	FSR2520PDB

You can find a complete list of accessories and spares at: http://www.intel.com/go/serverbuilder

Platform Cabling Diagram
Information shown is for reference only.

Passive Backplane SATA Cable Connection Detail
Back View of Passive Backplane
HDD 5, HDD 4, HDD 3, HDD 2, HDD 1, HDD 0
Notes:
1. Six SATA cables are factory-connected between the backplane and server board. Cable color may vary.

Active Backplane SAS/SATA Cable Connection Detail
Back View of Active Backplane
Notes:
1. Two SAS/SATA cables are factory-connected between the backplane and server board. Cable color may vary.

CAUTION: If you connect additional cables between the backplane and server board, it is critical that you connect the SAS/SATA data cables correctly according to the connector numbering sequence shown. Failure to do so may result in data loss.

A Server Board
B Power Supply #1
C Power Supply #2
D Power Distribution Module
E System Fans
F Front Panel Board
G Floppy Disk Drive
H Optical Drive
I Hard Disk Drive Bays
J Backplane
A Power to Server Board (Main)
B Power to Server Board (CPU)
C Power to Server Board (Auxiliary)
D Front Panel USB
E Front Panel
F Optical Device Data Cable
G Optical Device Power
H Fan #1 Power
I Fan #2 Power
J Fan #3 Power
K HDDs to Server Board SAS/SATA Connectors
L USB Floppy
M Backplane Power
N SATA SGPIO