Intel® Workstation System SC5650SCWS Quick Start User's Guide

Thank you for buying the Intel Workstation System SC5650SCWS. The following information will help you to assemble your Intel Workstation System SC5650SCWS and install components.

These guides and other supporting documents are located on the web at http://support.intel.com/support/motherboards/server/SC5520SC/

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, please see the Intel® Workstation System SC5650SCWS service guide, available on the Intel® Server Deployment Toolkit or at http://support.intel.com/support/motherboards/server/SC5520SC/

Please boot to the Intel® Server Deployment Toolkit CD first for BIOS and firmware configuration and updates.

Read all cautions and warnings before starting your workstation system integration.





Minimum Hardware Requirements

To avoid integration difficulties and possible board damage, your system must meet the following minimum requirements:

 Processor: Minimum of one Intel® Xeon® Processor 5500 Series. Maximum 130-W processor or Minimum of one Intel Xeon Processor 5600 Series. Maximum 130-W processor.

Heatsink(s):

Minimum of one active heat sink.

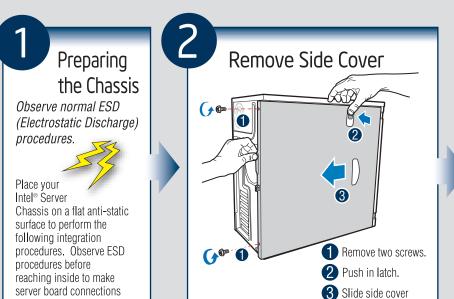
• Memory Type: Minimum of one 1 GB, 240-pin, RDIMM or UDIMM, DDR3-800, DDR3-1066, or DDR3-1333.

 Hard Disk Drive: SATA/SAS SAS Hard Disk Drive requires SAS add-in card or SAS module card

Supported Processor Supported Graphics Card Supported Graphics Card ONE maximum 300 watt graphics card in PCI Express* Slot 6 or TWO maximum 150 watt graphics cards. Empty PCI Express* Slot 3 when a graphics card is installed in PCI Express* slot 4.

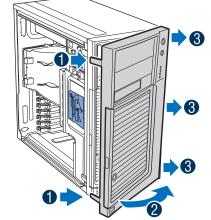
NOTE: Graphics cards with power greater than 75W must be self-cooled with exhaust out the back of the chassis.

rd For a complete list of compatible processors, heatsinks, and memory, see: http://support.intel.com/support/ motherboards

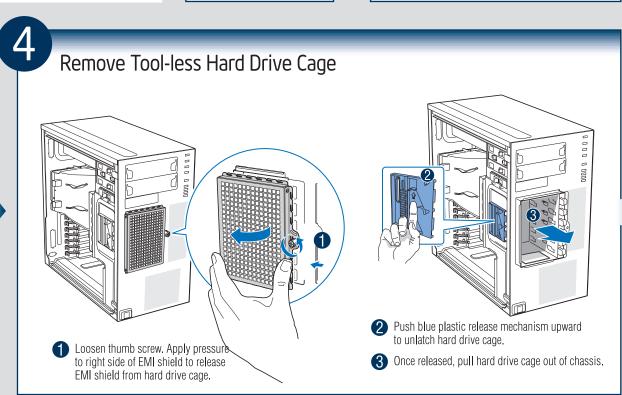


rearward and remove





- Lift outward two bezel tabs on left side of bezel assembly to detach bezel assembly from `the chassis.
- 2 Rotate left side of front bezel assembly outward slightly.
- 3 Disengage three bezel clips that attach the right side of the bezel to the right side of the chassis and remove.



or install components.

Warning

Read all caution and safety statements in this document before performing any of the instructions. Also see the Intel® Server Board and Server Chassis Safety Information document at: http://support.intel.com/support/motherboards/server/sb/cs-010770.htm for complete safety information.

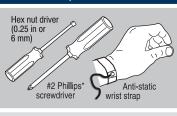
Warning

Installation and service of this product to be performed only by qualified service personnel to avoid risk of injury from electrical shock or energy hazard.

Caution

Observe normal ESD
[Electrostatic Discharge]
procedures during system
integration to avoid possible
damage to server board and/or
other components.

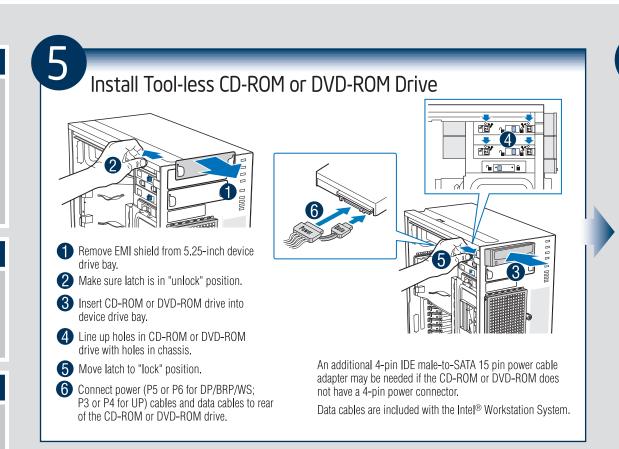
Tools Required

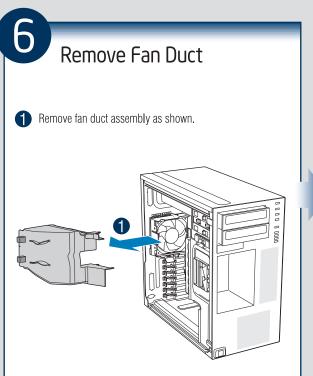


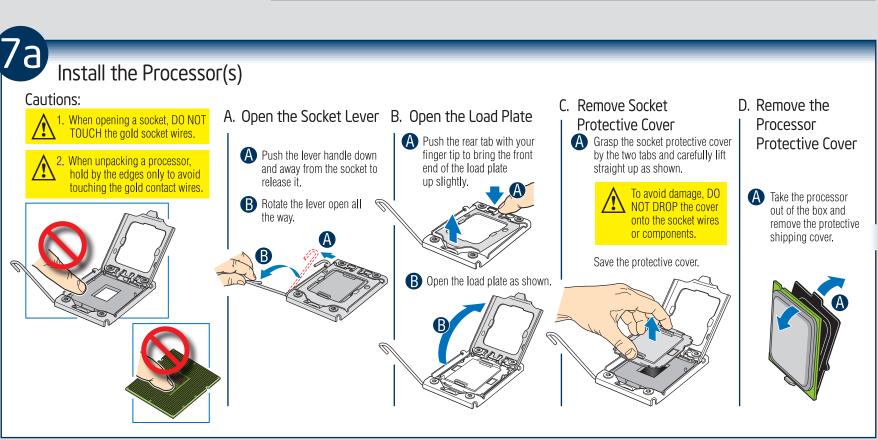
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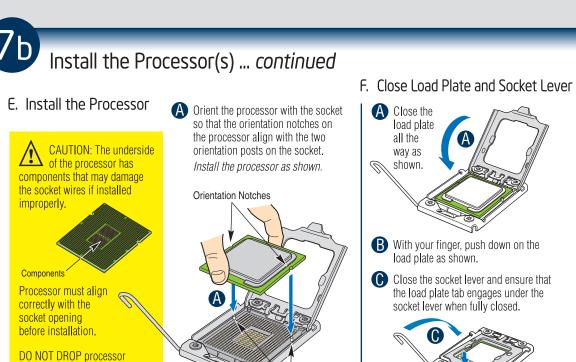


into the socket!

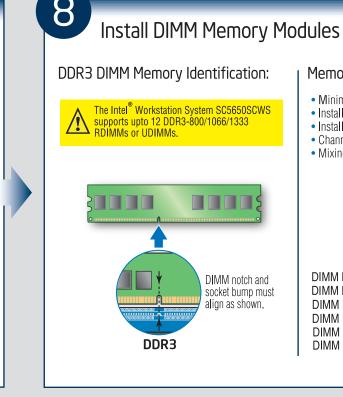


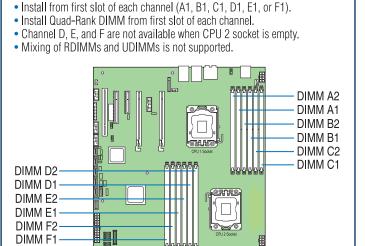






Orientation Posts





Memory Configurations and Population Order:

Minimum of one 1 GB DDR3-800/1066/1333 RDIMM or UDIMM.

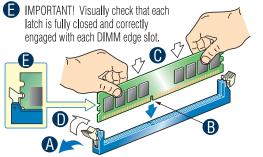
To Install DIMMs:

CAUTION: Avoid touching contacts when handling or installing DIMMs.

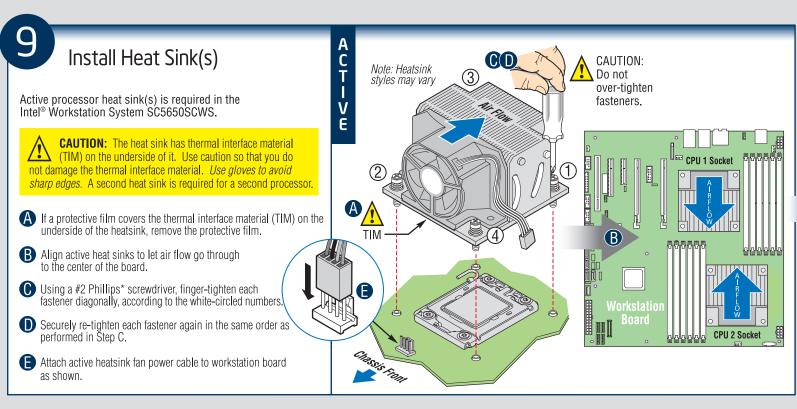
A Open both DIMM socket levers.B Note location of alignment notch.

Insert DIMM making sure the connector edge of the DIMM aligns correctly with the slot.

Push down firmly on the DIMM until it snaps into place and both levers close.



Go to Side 2





on-board RAID 5 Key connector as shown. (Optional) Connect the SGPIO

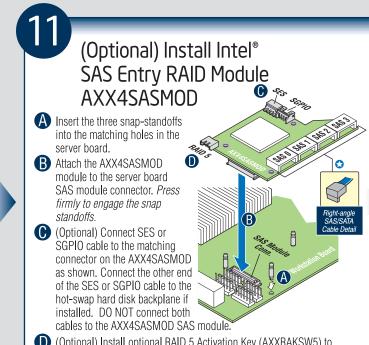
cable to the server board SGPIO Connector as shown. Connect the other end of the SGPIO cable to the hot-swap hard disk backplane if installed.

Connect SATA Data Cables to the server board as shown.



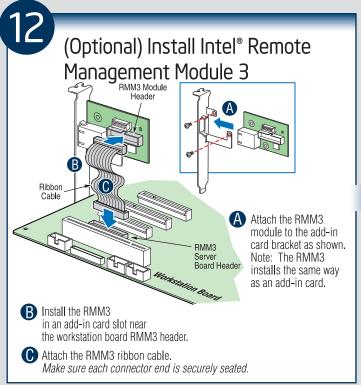
-B SGPIO

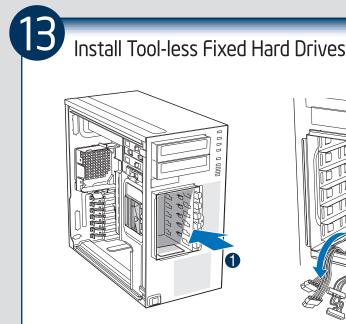
Begin cable connections at the SATA 0 location.



(Optional) Install optional RAID 5 Activation Key (AXXRAKSW5) to the AXX4SASMOD SAS module RAID 5 key connector as shown.

NOTE: Use right-angle SAS/SATA cables only





Insert fixed drive cage into chassis.

Install Front Bezel

•0

•0

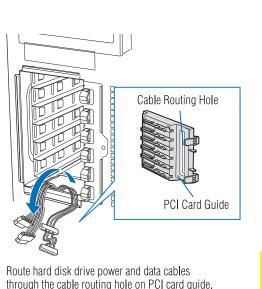
Assembly

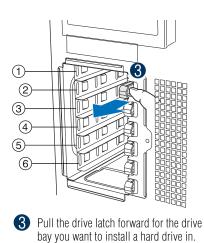
Engage three clips at right edge of chassis.

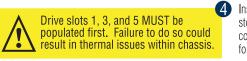
3 Snap two bezel tabs into corresponding

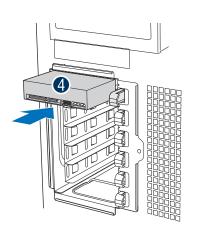
2 Rotate left side of bezel assembly toward chassis

recesses at left edge of chassis front panel.

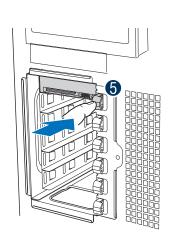








Insert fixed hard drive into drive bay until it stops. Ensure that the power and data connector end of the hard drive is facing



Push drive latch in to lock hard drive into

Chassis Fan Connection

√ = System Fan

header used

Common Problems and Solutions

For a list of hardware components that have been tested with this

http://support.intel.com/support/motherboards/server/s5520SC/

• Check that all processor power connectors are plugged-in.

Beep code 3 means you have bad memory; replace the faulty

• Install Quad-Rank DIMM from first slot of each channel.

Content

Spares and Configuration Guide | Supported accessories and spares list

Tested memory list

utility information

Supported processors lis

Tested peripherals and operating system lists

echnical Product Specification | In-depth technical information

The system does not boot or show video at power-on:

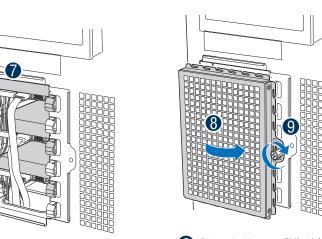
Without these connections, the server cannot boot.

DDR3 800/1066/1333-compliant, 240-pin DIMMs.

No mixing of DDR3 RDIMMs and UDIMMs.

Installed from first slot of each channel.

6 Install additional drives as necessary.



Install power and data cables to each of the

the oval opening at the bottom of the

drive cage.

Notes:

nstalled drives. The cables route through

Re-attach drive cage EMI shield to

Power/Sleep

Power/Sleep

NMI Button

Reset Button

NIC 1 Activity

NIC 2 Activity

Hard Drive

Status LED

Activity LED

Button

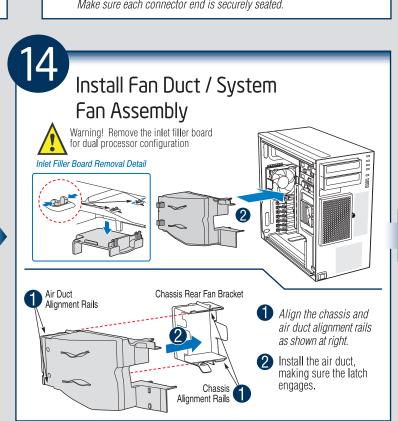
I FD

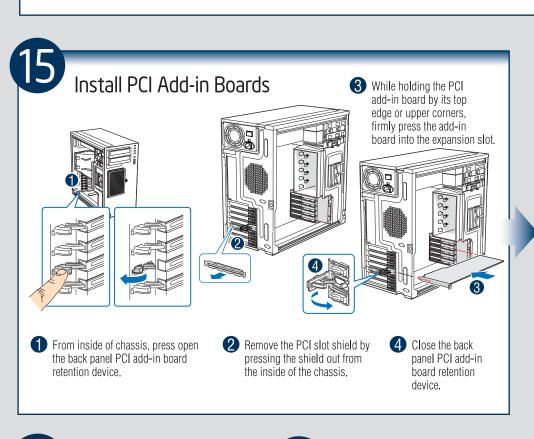
Tighten thumb screw.

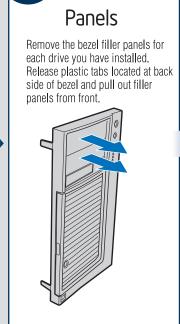
Front Panel Controls

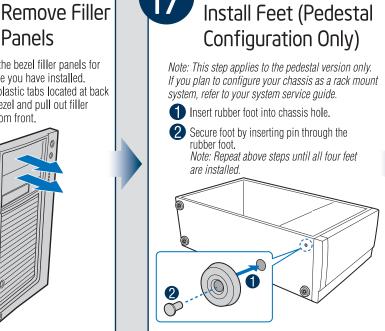
and Indicators

B-









system, see:

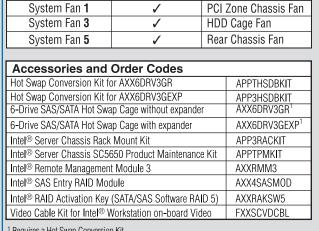
DDR3 DIMM(s).

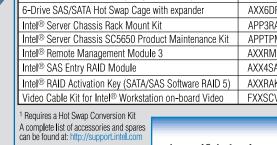
Document Type

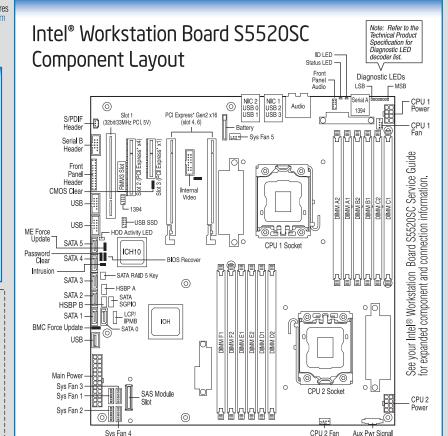
Software and Drivers

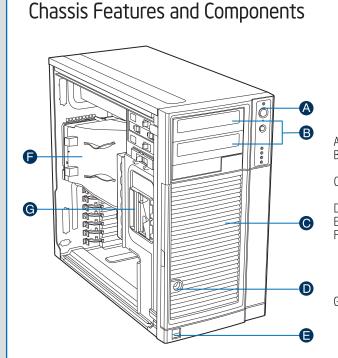
Software and Drivers

Remember, all DIMMs must be:









Reference

USB Ports (2) Fan Duct and System Fan (DP/WS/BRP configuration shown)

Front Panel

5.25-inch Device

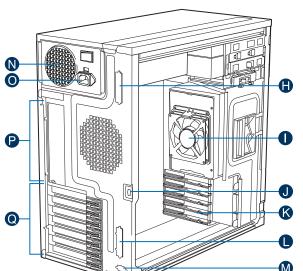
Drive Bays (2)

Access Door

Door Lock

Hard Drive Cage

Hard Drive Cage Retention Mechanism



H. Alternate external SCSI Knockout

Fixed Hard Drive Fan Padlock Loop PCI Card Guide

External SCSI Knockout

M. Serial B port Knockout

Power Supply (fixed illustrated) A/C Power In I/O Shield PCI Add-in Board Slots



CAUTION: This chassis must be operated with the SIDE COVER installed to ensure proper cooling. **?** Replace screws.

