# Rack Conversion Kit Installation Guide: Intel<sup>®</sup> Server Chassis SC5300

Order Number: C54952-002

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# **Important Safety Instructions**

#### **Important Safety Instructions**

Read all caution and safety statements in this document before performing any of the instructions. See *Intel Server Boards and Server Chassis Safety Information* at <a href="http://support.intel.com/support/motherboards/server/sb/cs-010770.htm">http://support.intel.com/support/motherboards/server/sb/cs-010770.htm</a>.

#### Wichtige Sicherheitshinweise

Lesen Sie zunächst sämtliche Warn- und Sicherheitshinweise in diesem Dokument, bevor Sie eine der Anweisungen ausführen. Beachten Sie hierzu auch die Sicherheitshinweise zu Intel-Serverplatinen und -Servergehäusen unter

http://support.intel.com/support/motherboards/server/sb/cs-010770.htm.

#### 重要安全指导

在执行任何指令之前,请阅读本文档中的所有注意事项及安全声明。 和/或 <a href="http://support.intel.com/support/motherboards/server/sb/cs-010770.htm">http://support.intel.com/support/motherboards/server/sb/cs-010770.htm</a> 上的 Intel Server Boards and Server Chassis Safety Information (《Intel 服务器主板与服务器机箱安全信息》)。

#### Consignes de sécurité

Lisez attention toutes les consignes de sécurité et les mises en garde indiquées dans ce document avant de suivre toute instruction. Consultez *Intel Server Boards and Server Chassis Safety Information* rendez-vous sur le site <a href="http://support.intel.com/support/motherboards/server/sb/cs-010770.htm">http://support.intel.com/support/motherboards/server/sb/cs-010770.htm</a>.

#### Instrucciones de seguridad importantes

Lea todas las declaraciones de seguridad y precaución de este documento antes de realizar cualquiera de las instrucciones. Vea *Intel Server Boards and Server Chassis Safety Information* en <a href="http://support.intel.com/support/motherboards/server/sb/cs-010770.htm">http://support.intel.com/support/motherboards/server/sb/cs-010770.htm</a>.

# **Warnings and Cautions**

These warnings and cautions apply whenever you remove the Access Cover to access components inside the server. Only a technically qualified person should integrate and configure the server.



#### **WARNINGS**

The power button on the front panel DOES NOT turn off the AC power. To remove power from server, you must unplug the AC power cord from the wall outlet or the chassis.

Hazardous electrical conditions may be present on power, telephone, and communication cables. Turn off the server and disconnect the power cords, telecommunications systems, networks, and modems attached to the server before opening it. Otherwise, personal injury or equipment damage can result.

Hazardous voltage, current, and energy levels are present inside the power supply. There are no user-serviceable parts inside it; servicing should be done by technically qualified personnel.



#### CAUTIONS

ESD can damage disk drives, boards, and other parts. Perform all procedures in this document only at an ESD workstation. If one is not available, provide ESD protection by wearing an anti-static wrist strap attached to chassis ground—any unpainted metal surface—on your server when handling parts.

Always handle boards carefully. They can be extremely sensitive to ESD. Hold boards only by their edges. Do not touch the connector contacts. After removing a board from its protective wrapper or from the server, place the board component side up on a grounded, static free surface. Use a conductive foam pad if available but not the board wrapper. Do not slide board over any surface.

For proper cooling and airflow, always install the Access Cover before turning on the server. Operating it without the cover in place can damage system parts.

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### **Before You Begin**

Before removing the Access Cover for any reason, observe these safety guidelines.

- 1. Turn off all peripheral devices connected to the server.
- 2. Turn off the server by pressing the power button on the front of the chassis. Then unplug the AC power cord from the chassis or wall outlet.
- 3. Label and disconnect all peripheral cables and all telecommunication lines connected to I/O connectors or ports on the back of the chassis.
- 4. Provide electrostatic discharge (ESD) protection by wearing an anti-static wrist strap attached to a chassis ground—any unpainted metal surface—when handling components.

#### **About the Rack Conversion Kit**

Use the instructions in this Rack Conversion Kit Install Guide to convert an Intel® Server Chassis SC5300, SC5300 Base Redundant Power (BRP) or SC5300 LX from a pedestal/tower configuration to a rack mount configuration.

#### Kit Content List

Each Rack Conversion Kit contains the following:

#### **Rack Conversion Kit (ARIGRACK)**

Item	Quantity
Front Panel Sticker	1
Handle	2
Handle Screw	6
Rack Stud Screw	6
Hinge Cover	1
Suitcase Jumper	1
This Manual	1

### **Tools and Supplies Needed**

- Phillips\* (cross head) screwdriver (#2 bit)
- Flat-head screwdriver
- Anti-static wrist strap (recommended)
- Screws/fasteners (included with your server chassis)

Before You Begin 1

### **Rack Conversion Kit Installation Instructions**

### **Remove the Primary Access Cover**

When your Intel® Server Chassis SC5300, SC5300BRP, or SC5300LX is in the upright (tower/pedestal) position, and you are facing the front of it, the Primary Access Cover is on the left side.

- 1. Observe all safety and ESD precautions listed at the beginning of this document.
- 2. Power the system off and disconnect all power cables.
- 3. Remove the shipping screw, if necessary (letter "A").
- 4. Press the latch (letter "B") and slide the cover towards the rear of the chassis.
- 5. Lift the cover outward to remove it.

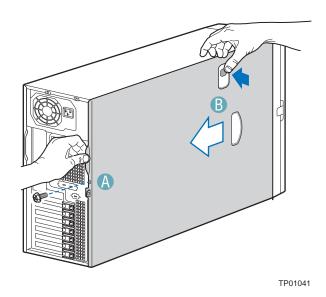


Figure 1. Removing Access Cover

### **Remove the Bezel Assembly**

- 1. Release the two plastic tabs (letter "A") on the left side of the Bezel Assembly to disengage the tabs.
- 2. Rotate the Bezel Assembly (letter "B") no more than 40 degrees outward.
- 3. At a 40-degree angle, push the Bezel Assembly away from the chassis (letter "C"). If Bezel Assembly does not immediately disconnect from the chassis, then tap the left-hand side of the Bezel Assembly to disengage the bezel hooks on the right-hand side of the chassis.

#### **A** CAUTION

Do not rotate the Bezel Assembly more than 40 degrees or you will damage the bezel hooks on the right-hand side of the Bezel Assembly.

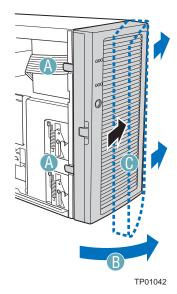


Figure 2. Removing Bezel Assembly

### **Remove Hot Swap Power Supply**

#### ■ NOTE

This step is only necessary on the Server Chassis SC5300 BRP and LX models.

- 1. Remove screw (letter "A") securing power supply in place.
- 2. Press on green latch while pulling on handle (letter "B") to remove power supply from chassis.
- 3. Repeat Steps 1-2 if a second hot swap power supply is installed.

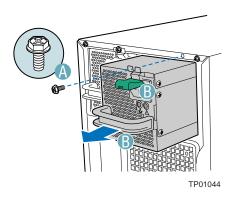


Figure 3. Removing the Hot Swap Power Supply

### **Remove Top Cover**

- 1. Remove two screws (letter "A") securing Top Cover to chassis.
- 2. Slide Top Cover rearward (letter "B") about 2 inches until it releases from the mounting brackets.

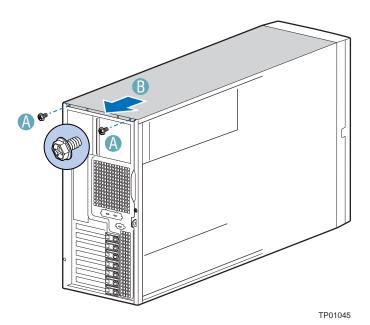


Figure 4. Installing Top Cover

### **Remove Feet**

- 1. Lay chassis on side.
- 2. Use a flat-head screwdriver to pop center plastic rivet (letter "A") free from foot.
- 3. Remove foot (letter "B").
- 4. Repeat Steps 2-3 for remaining feet.

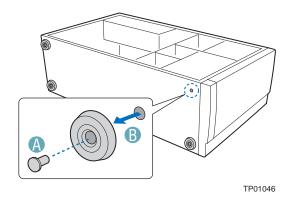


Figure 5. Removing Feet

Remove Top Cover 5

### Remove Floppy/CD-ROM/DVD Drives/Drive Fillers

- 1. Remove power and data cables from all installed floppy, DVD or CDROM drives.
- 2. Remove floppy/CD-ROM/DVD drives and/or drive fillers from chassis.

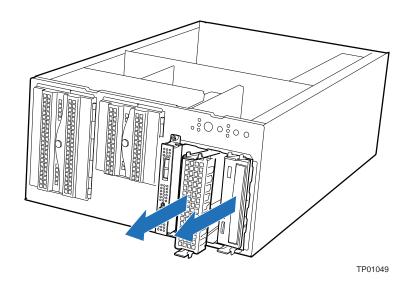


Figure 6. Removing Floppy/CD-ROM/DVD Drives

#### Re-orient the Serial/USB Port Front Panel

- 1. Remove any USB or serial port cables from the Serial/USB Port Front Panel.
- 2. Loosen the thumb screw and remove Serial/USB Port Front Panel from chassis.

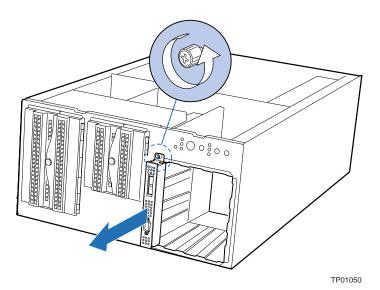


Figure 7. Removing Serial/USB Port Front Panel

3. Re-orient the Serial/USB Port Front Panel horizontally by lining up the Front Panel with the bottom slot. Insert the tab on the right-hand side of the Front Panel into the matching slot on the right-hand side of the chassis. Tighten the thumb screw.

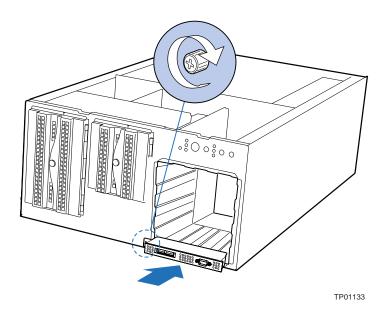


Figure 8. Reorienting Serial/USB Port Front Panel

### Reinstall Floppy/CD-ROM/DVD Drives/Drive Fillers

- 1. Re-install floppy/CDROM/DVD drives and/or drive fillers in the horizontal orientation.
- 2. Re-connect power and data cables to all installed floppy, DVD and CDROM drives.

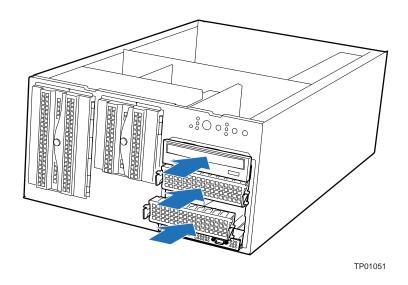


Figure 9. Re-orienting Floppy/CD-ROM/DVD Drives

### **Disconnecting Chassis Intrusion Switch**

1. Remove Chassis Intrusion Cable from Front Panel Control Board.

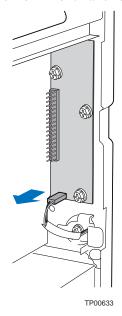


Figure 10. Disconnecting Chassis Intrusion Switch on Front Panel Control Board

2. Install Suitcase Jumper on Chassis Intrusion Cable to prevent chassis intrusion alerts.

#### **⇒** NOTE

The Suitcase Jumper ships with your Rack Conversion Kit.

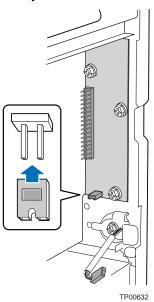


Figure 11. Installing Suitcase Jumper on Chassis Intrusion Switch

### **Install Handles**

- 1. Position a handle on the side of chassis and secure to chassis using the 3 screws provided. Handle should face outwards.
- 2. Repeat Step 1 for second handle on other side of chassis.

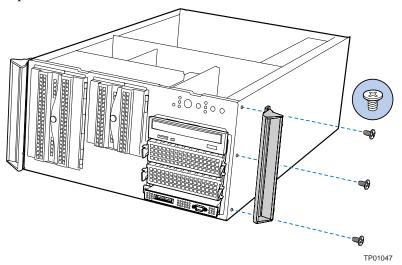


Figure 12. Installing Handles on Chassis

#### **Install Rack Stud Screws**

1. Position and secure 3 rack stud screws to each side of chassis.

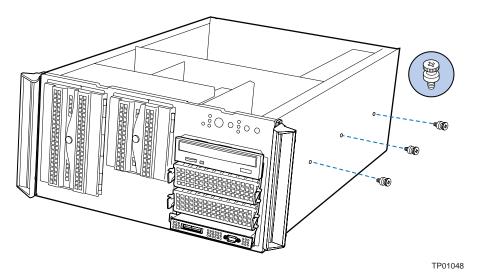


Figure 13. Installing Rack Stud Screws.

### **Reinstall Hot Swap Power Supply**

#### ■ NOTE

This step is only necessary on the Server Chassis SC5300 BRP and LX models.

- 1. Set chassis upright.
- 2. Insert hot swap power supply into chassis (letter "A").
- 3. Secure power supply to chassis with screw (letter "B").
- 4. Repeat Steps 1-3 if a second hot swap power supply needs to be reinstalled.

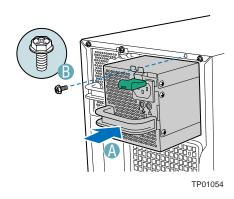


Figure 14. Reinstalling Hot Swap Power Supply

### **Reinstall Bezel Assembly**

#### NOTE

The Bezel Assembly consists of two parts, an Inner Bezel Door and an Outer Bezel Door. Only the Inner Bezel Door is used when the chassis is configured for the rack-mount position.

1. Remove the Outer Bezel Door from the Bezel Assembly. With one hand supporting the Inner Bezel Door, use your other hand to push the Outer Bezel Door away. The Outer Bezel Door will disengage from the Inner Bezel Door at the four hinges (letter "A").

### **A** CAUTION

Only open the Outer Bezel Door slightly (about 20 degrees) before removing it. Opening the Outer Bezel Door all the way before removing may break the hinges.

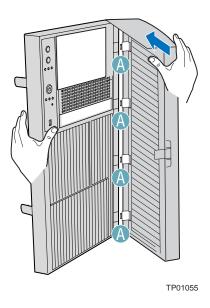


Figure 15. Removing Outer Bezel Door from Bezel Assembly

2. If necessary, re-orient plastic filler panel(s) to correspond with uninstalled drives by removing the filler panel (letter "A"), turning it vertically (letter "B"), and reinstalling it (letter "C") into the Inner Bezel Door.

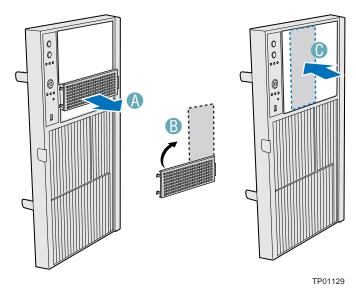


Figure 16. Re-orienting Filler Panels

3. Fit the right-hand side of the Inner Bezel Door against the right-hand side of chassis and engage plastic bezel hooks (letter "A") into raised metal slots at chassis edge. Rotate Inner Bezel Door inward (letter "B") and latch the two plastic tabs (letter "C") to left-hand side of

### **A** CAUTION

Do not attach Inner Bezel Door to chassis at more than a 40-degree angle or you will damage the bezel hooks at the right-hand side of the Inner Bezel Door.

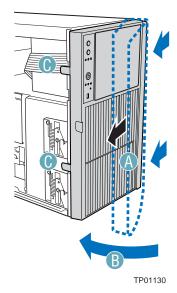


Figure 17. Installing Inner Bezel Door

4. Install Hinge Cover to Inner Bezel Door by aligning Hinge Cover with the right-hand side of Inner Bezel Door. Press firmly on Hinge Cover to snap it to the Inner Bezel Door.

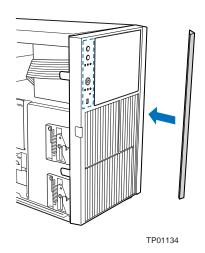


Figure 18. Installing Hinge Cover

### Affix LED and Button Label to Inner Bezel Door

1. Affix LED and Button Label to Inner Bezel Door. Remove adhesive strip from label (letter "A") and then press label firmly against upper left-hand side of Inner Bezel Door (letter "B").

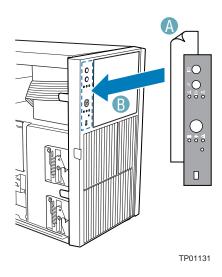


Figure 19. Affixing LED and Button Sticker to Inner Bezel Door

### **Replace Primary Access Cover**

- 1. Slide Primary Access Cover on chassis.
- 2. Replace shipping screw (optional).



### **A** CAUTION

This chassis must be operated with the Primary Access Cover installed to ensure proper cooling.

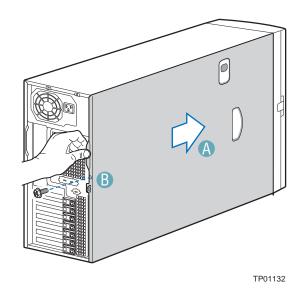


Figure 20. Replacing Primary Access Cover

#### **Install Rack Mount Rail Kit**

Refer to the manual that came with your Rack Mount Kit to complete installation of the rack mount rail assembly.