

Intel® Server Chassis SR1400 SCSI and SATA Backplane Kit for:

- Intel® Server Chassis SR1400 with Intel® Server Board SE7520JR2
- Intel® Server Platform SR1425BK1-E
- Intel® Server Platform SR1435VP2

Installation Guide

Order Number: C83540-003



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

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

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

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 server cover before turning on the server. Operating it without the cover in place can damage system parts.

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About the SATA or SCSI Backplane Kit

The Intel® Server Chassis SR1400 SATA or SCSI Backplane can be installed into the following server platform configurations:

- Intel Server Chassis SR1400 with the Intel® Server Board SE7520JR2
- Intel Server Platform SR1425BK1-E
- Intel Server Platform SR1435VP2

The SATA kit provides you with the ability to install up to three hot-swap SATA drives into your server. The SCSI kit provides you with the ability to install up to three hot-swap SCSI drives.



NOTE

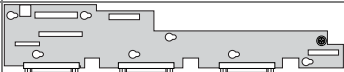

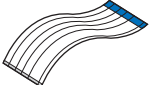
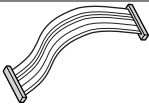
With each kit, the number of drives and the type of drives you can actually install depends on the server board capabilities and any SATA or SCSI add-in card that is installed.

Kit Contents

SCSI Backplane Kit

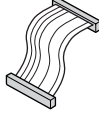

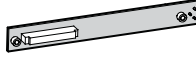
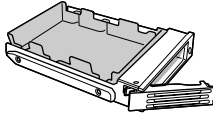
You should have received the following parts if you ordered the SCSI Backplane Kit, order number A1400SCSIKIT:

SCSI Backplane Parts List

Item	Picture (not to scale)	Quantity
SCSI backplane		1
100-pin flex cable		1
26-pin floppy drive data cable		1
50-pin front panel cable		1

continued

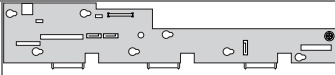

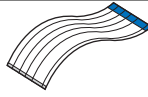
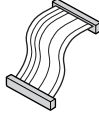
SCSI Backplane Parts List (continued)

Item	Picture (not to scale)	Quantity
44-pin CD-ROM drive data cable		1
SCSI cable		1
44-pin CD-ROM drive interposer board with two screws		1
Hot-swap driver carrier		3

SATA Backplane Kit

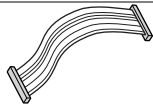
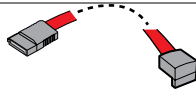
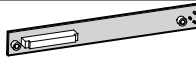
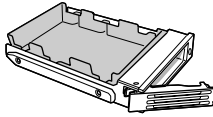
You should have received the following parts if you ordered the SATA Backplane Kit, order number A1400SATAKIT:

SATA Backplane Parts List

Item	Picture (not to scale)	Quantity
SATA backplane		1
Flex cable		1
26-pin floppy drive data cable		1
44-pin CD-ROM drive data cable		1

continued

SATA Backplane Parts List (continued)

Item	Picture (not to scale)	Quantity
50-pin front panel cable		1
SATA cable		3
CD-ROM drive interposer board with two screws		1
Hot-swap driver carrier		3

Document Scope and Assumptions

This document provides instructions to guide you through installing the hot-swap SCSI or hot-swap SATA backplane into the

- Intel® Server Chassis SR1400 with the Intel Server Board SE7520JR2
- Intel® Server Platform SR1425BK1-E
- Intel® Server Platform SR1435VP2

Unless otherwise specified, server board diagrams in this document are specific to the Intel® Server Board SE7520JR2. For boards other than the Server Board SE7520JR2, you may need to refer to the documentation that came with your server board or platform to determine compatibility and cable routing.

This document assumes you are installing the backplane kit during an initial integration process, before your server system is up and running. Because the Quick Start User's Guide used for the initial integration is used for several implementations, this instruction guide will ask you to uninstall selected components that you may have just installed. For the best results, read through both the Quick Start User's Guide(s) for your server board and chassis, and this installation guide before beginning your installation.

If you are installing the backplane board into a fully integrated server system that is currently operational, you will need to uninstall several components. Refer to your the Intel® Server Board or Chassis User Guide for instructions on removing and reinstalling components. The User's Guides are available at:

- Intel Server Chassis SR1400 with Intel® Server Board SE7520JR2:
<http://support.intel.com/support/motherboards/server/chassis/SR1400/>
- Intel Server Platform SR1425BK1-E :
<http://support.intel.com/support/motherboards/server/sr1425bk1-e/>
- Intel Server Platform SR1435VP2:
<http://support.intel.com/support/motherboards/server/sr1435vp2/>

Tools and Supplies Needed

- Phillips* (cross head) screwdriver (#2 bit)
- Anti-static wrist strap (recommended)

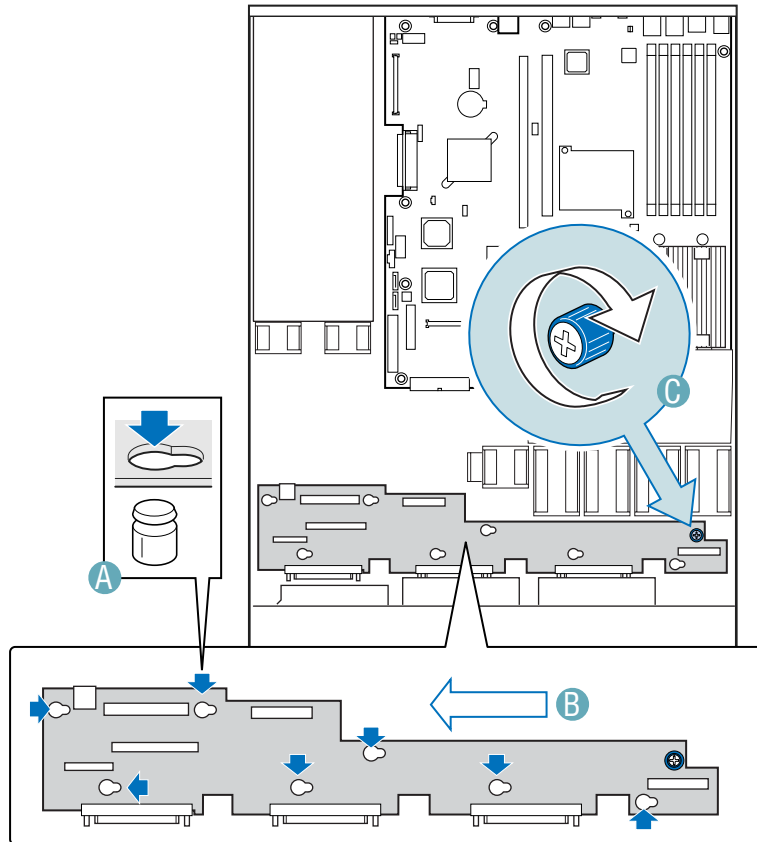
Installation into Intel® Server SR1400 with Intel Server Board SE7520JR2, or into Intel® Server Platform SR1435VP2

Follow Steps in Quick Start User's Guide

Remove the CD-ROM tray if it is installed in the chassis. Follow the instructions in the *Intel® Server Chassis SR1400 Quick Start User's Guide* or in the *Intel® Server Platform SR1435VP1 Quick Start User's Guide*. The appropriate guide came with your server chassis or platform. The Quick Start User's Guide will direct you to this guide at the appropriate point during the integration process.

Install the SATA or SCSI Backplane

1. Lift any cables out of the way.
2. Lower the backplane into the chassis, aligning the mounting holes. See letter “A” in the figure below.
3. Slide the backplane toward the power supply to lock it into place. See letter “B” in the figure.
4. Secure the backplane into the chassis with the blue thumbscrew. See letter “C” in the figure.

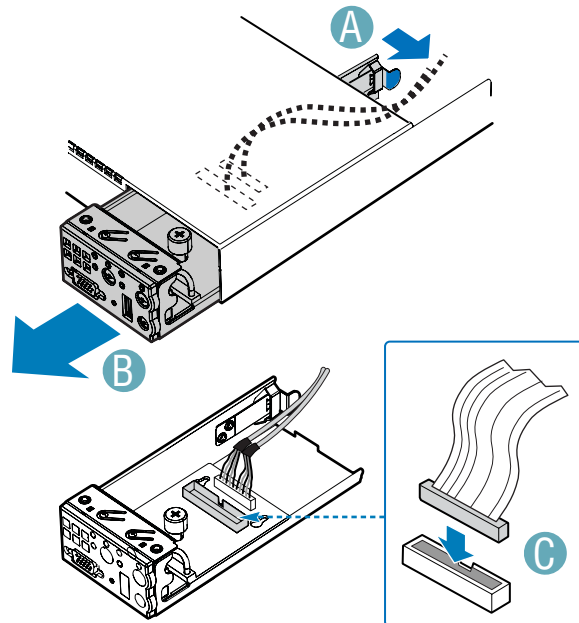


TP01146

Figure 1. Installing the SCSI or SATA Backplane

Connect Flex Cable, Power Cable, and Front Panel Cable

1. Pull the lever at rear of the control panel to release it. See letter “A” in the figure below.
2. Slide control panel out far enough to expose the front panel ribbon cable connector. See letter “B” in the figure. You may need to detach the USB cable from the server board to ensure it has enough slack.
3. If a ribbon cable is attached to the control panel, remove it from both the control panel and from the server board.
4. Attach the front panel ribbon cable that was included with your backplane kit. See letter “C” in the figure.
5. Slide the control panel back into the chassis until it clicks into place. Reattach the USB cable to the server board if you needed to detach it in step 2. Make sure the USB cable is held to the backplane board by the plastic cable retention device near the rear of the control panel, near the front panel connector on the backplane.



TP01148

6. Attach the flex cable from the backplane to the server board as shown by letter “A” in the figure below. One cable end is labeled “backplane” and the other end is labeled “server board” for proper installation.
7. Attach the 2x3 power cable from the power supply to the backplane as shown by letter “B” in the figure.
8. Install the 50-pin front panel cable to the backplane as shown by letter “C” in the figure.

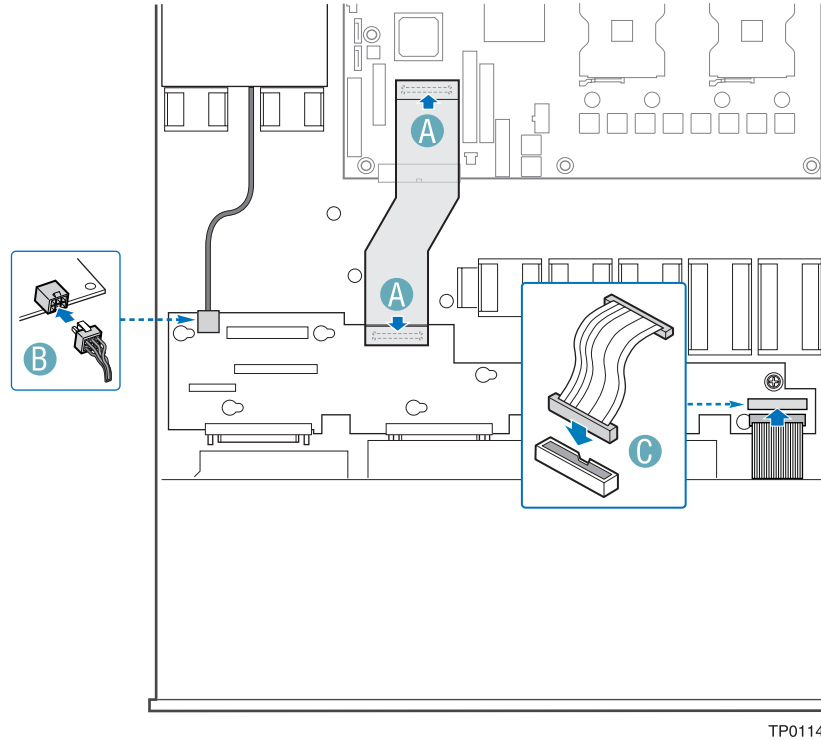
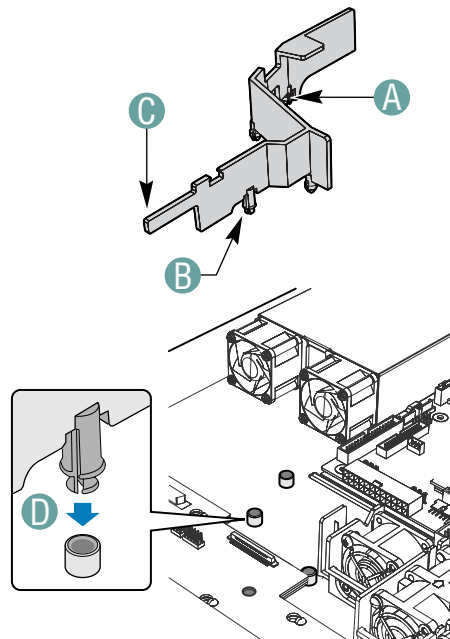


Figure 2. Connecting the Flex Cable, Power Cable, and Front Panel Cable

Install the Air Baffle

1. Lower the baffle into the chassis between the power supply and the drive bay area.
2. While setting the baffle into place, route the cables as follows:
 - Route these cables through only the large notch under the baffle (letter “A” in the figure below):
 - Main power cable
 - CPU power cable
 - Route these cables through both openings under the baffle (letters “A” and “B” in the figure below):
 - USB
3. Fit the tab that extends from the front of the baffle under the drive cage area. See letter “C” in the figure.
4. Line up the guide pins on the baffle with the matching holes in chassis floor and in the backplane board. See letter “D” in the figure below.
5. Push down on the baffle to secure it to the chassis.



TP01240

Figure 3. Installing the Air Baffle

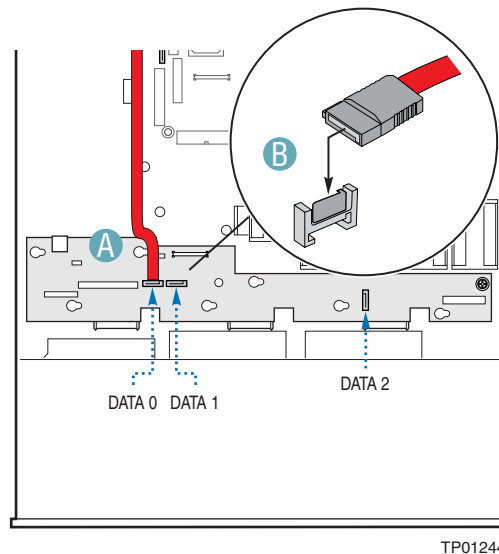
Install the SATA Cable(s)



NOTE

Disregard this step if you installed the SCSI backplane and instead follow the steps for [Install the SCSI Cable](#).

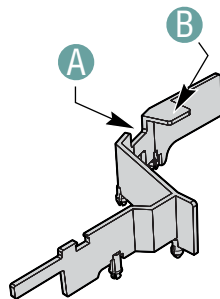
1. Connect the SATA Cable(s) to the connectors labeled DATA 0 and DATA 1 on the backplane. See letter “A” in the figure below to locate the backplane. See letter “B” in the figure to identify the end of the SATA cable that is attached to the backplane.



TP01244

Figure 4. Connecting SATA Cable(s) to Backplane

2. Route the SATA cables over the rear top notch of the air baffle and underneath the plastic tab. See letters “A” and “B” in the figure below.



TP01242

Figure 5. Routing SATA Cable through Rear Baffle Notch and Tab

3. If you will be using the SATA connections on the server board instead of an add-in SATA RAID Controller, connect the 90-degree end of the SATA cable(s) to the corresponding server board connection(s). The cable connected to DATA 0 should be connected to SATA 0. The cable connected to DATA 1 should be connected to SATA 1. See letter “A” in the figure below to identify the end of the SATA cable that is attached to the server board. See your server board documentation to locate the SATA connection points on the server board.

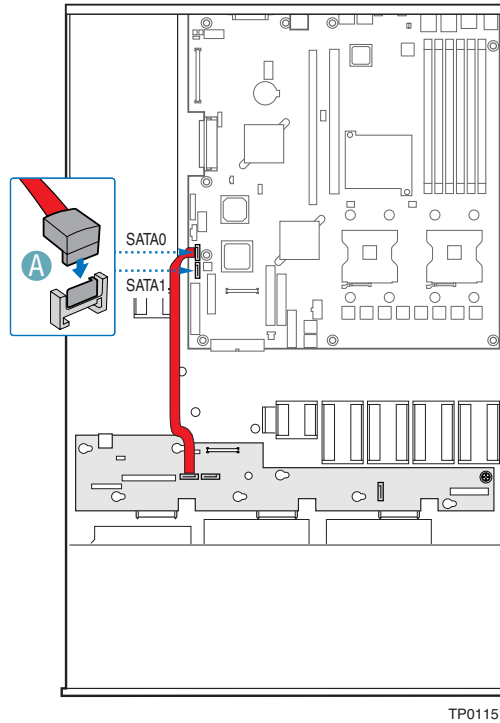


Figure 6. Connecting SATA Cable(s) to Server Board



NOTES

If you will be using an add-in SATA RAID Controller, you will need to connect DATA 0 and DATA 1 to the appropriate connectors on the add-in card after you install it. See your add-in card documentation for the appropriate SATA connections.

If you add a third SATA drive you will need to route the cable connected to DATA 2 over the front top notch of the air baffle. See letter “A” in the figure below.

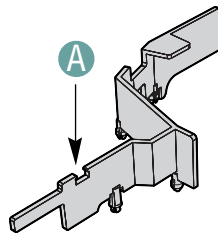


Figure 7. Routing SATA Cable(s) over Front Baffle Notch

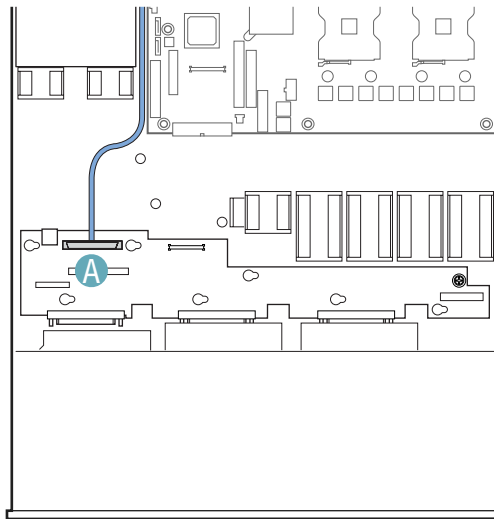
Install the SCSI Cable



NOTE

Disregard this step if you installed the SATA backplane and instead follow the steps for [Install the SATA Cable\(s\)](#).

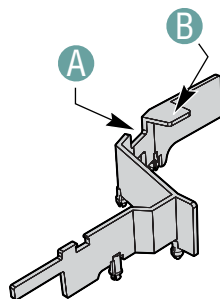
1. Connect the end of the SCSI cable that is labeled “Backplane” to the backplane SCSI Connector. See letter “A” in the figure below.



TP01245

Figure 8. Connecting SCSI Cable to Backplane

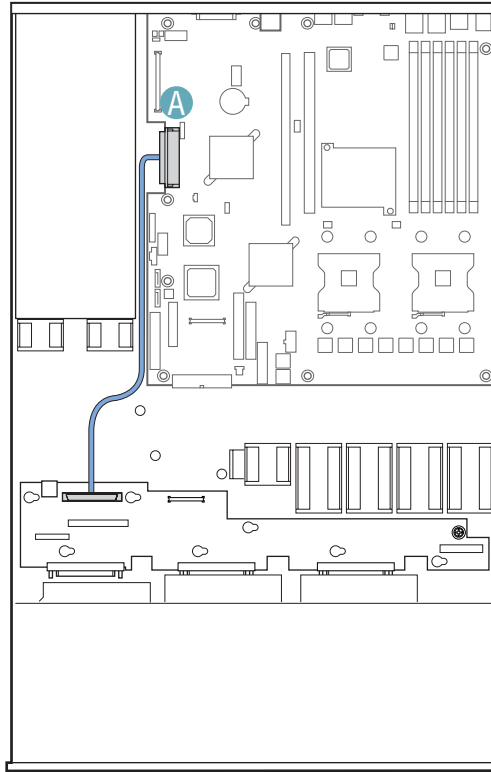
2. Route the SCSI cable over the rear top notch and underneath the plastic tab on the air baffle. See letters “A” and “B” in the figure below.



TP01242

Figure 9. Routing SCSI Cable through Rear Baffle Notch and Tab

3. Connect the end of the SCSI cable that is labeled “Server Board” to the SCSI connection on the server board if not already connected. See letter “A” in the figure below. See your server board documentation to locate the SCSI connection point on the server board



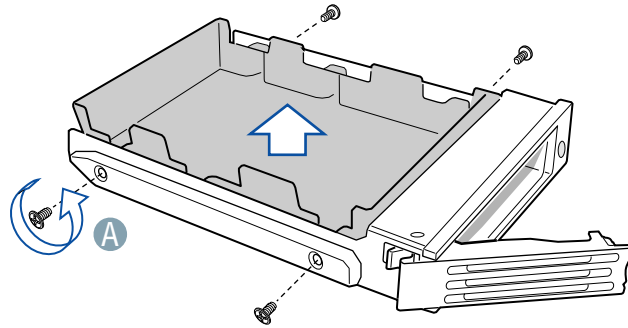
TP01150

Figure 10. Connecting SCSI Cable to Server Board

Install Hot-swap Hard Drives

Repeat the steps below for each hard drive to be installed. When installing your drive(s) into the chassis, the primary drive must be inserted into the left drive bay.

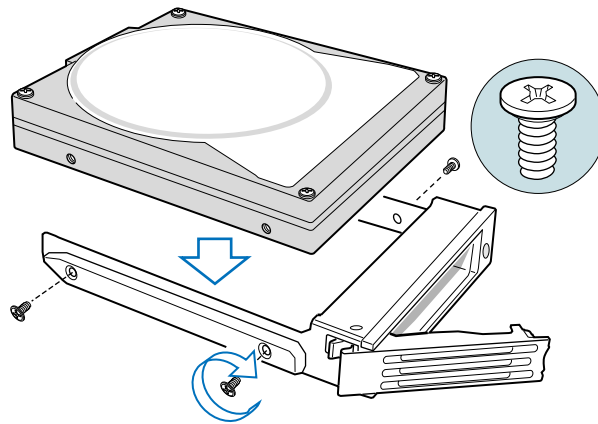
1. Set any jumpers and / or switches on the hard drive(s) according to the instructions that came with your hard drive(s).
2. Remove the four screws that hold the plastic baffle to the drive carrier. See letter “A” in the figure below. Store the plastic drive baffle for future use.



TP01184

Figure 11. Removing the Drive Baffle

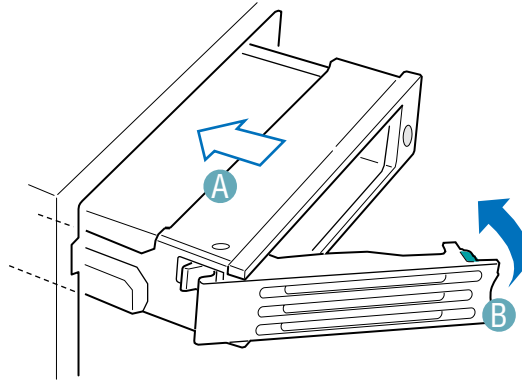
3. Position with the drive with circuit side facing down and the connector end of the drive facing the rear of the drive carrier.
4. Align the holes in the drive to the holes in the drive carrier and attach it to the carrier with the screws that were attached to the plastic retention device.



TP01140

Figure 12. Installing Hot-swap Hard Drives into Drive Carrier

5. With the black lever on the drive assembly in the fully open position, slide the drive assembly into the chassis. The green latch at the front of the drive carrier must be to the right. Do not push on the black drive carrier lever until the lever begins to close by itself.
6. When the black drive carrier lever begins to close by itself, close the lever to lock the drive assembly into place.



TP01141

Figure 13. Installing Hot-swap Hard Drive Carriers into Chassis

7. For proper chassis cooling, install empty drive carriers into drive bays where no drive will be installed.

Install Slimline Floppy Drive (optional)

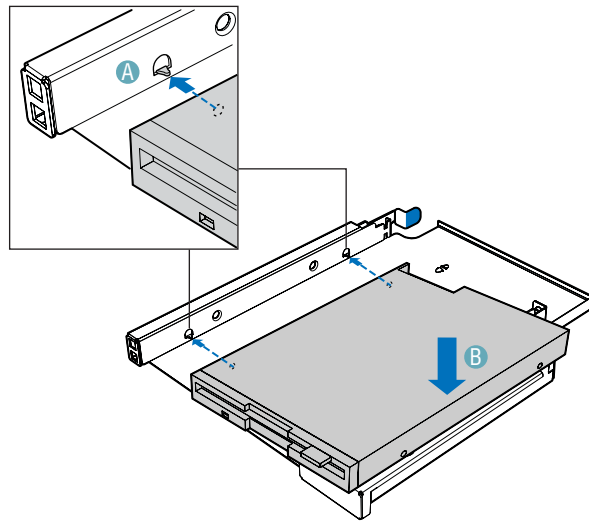


NOTES

The carrier for the slimline floppy drive was sent to you in the hardware kit that came with your Server Chassis SR1400 or Server Platform SR1435VP2.

The carrier for the CD-ROM / DVD-ROM drive was shipped installed in your chassis. Remove the carrier from the platform before beginning.

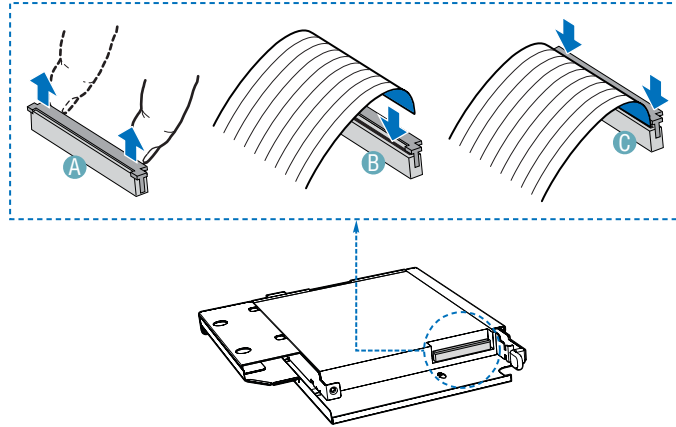
1. Align the two holes at the left side of the floppy drive with the two cutouts in the floppy drive carrier. See letter “A” in the figure below.
2. Lower the right side of the floppy drive into the carrier until it clicks into place.



TP01082

Figure 14. Installing Slimline Floppy Drive into Carrier

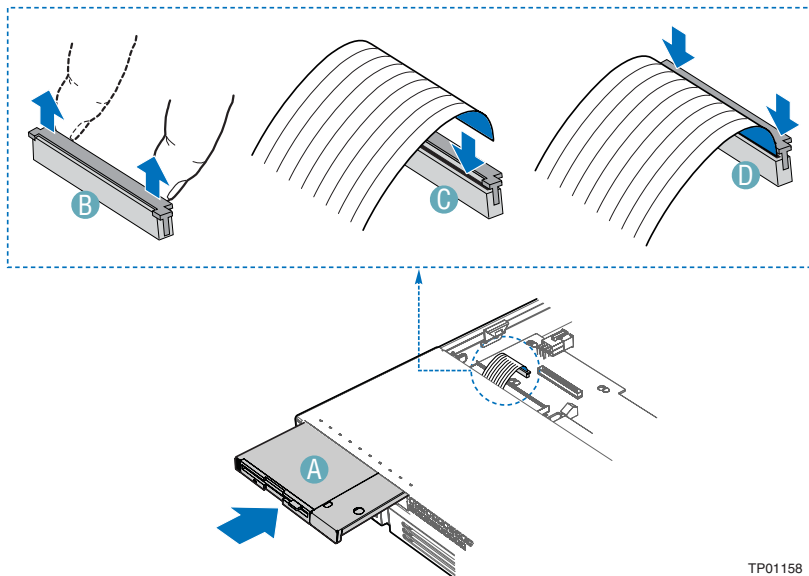
3. Open the connector on the rear of the floppy drive by pulling up on the connector cover. See letter “A” in the figure below.
4. Insert one end of the 26-pin floppy drive data cable end into the connector. See letter “B” in the figure.
5. Push down on the connector cover to lock the cable into place. See letter “C” in the figure.



TP01144

Figure 15. Installing 26-pin Floppy Drive Data Cable

6. Slide the floppy drive assembly into the chassis until it clicks into place. See letter “A” in the figure below.
7. Open the connector labeled “Floppy Con” on the backplane by pulling up on the connector cover. See letter “B” in the figure below.
8. Insert the loose end of the floppy cable into the backplane connector. See letter “C” in the figure.
9. Push in on the connector cover to lock the cable into place. See letter “D” in the figure.



TP01158

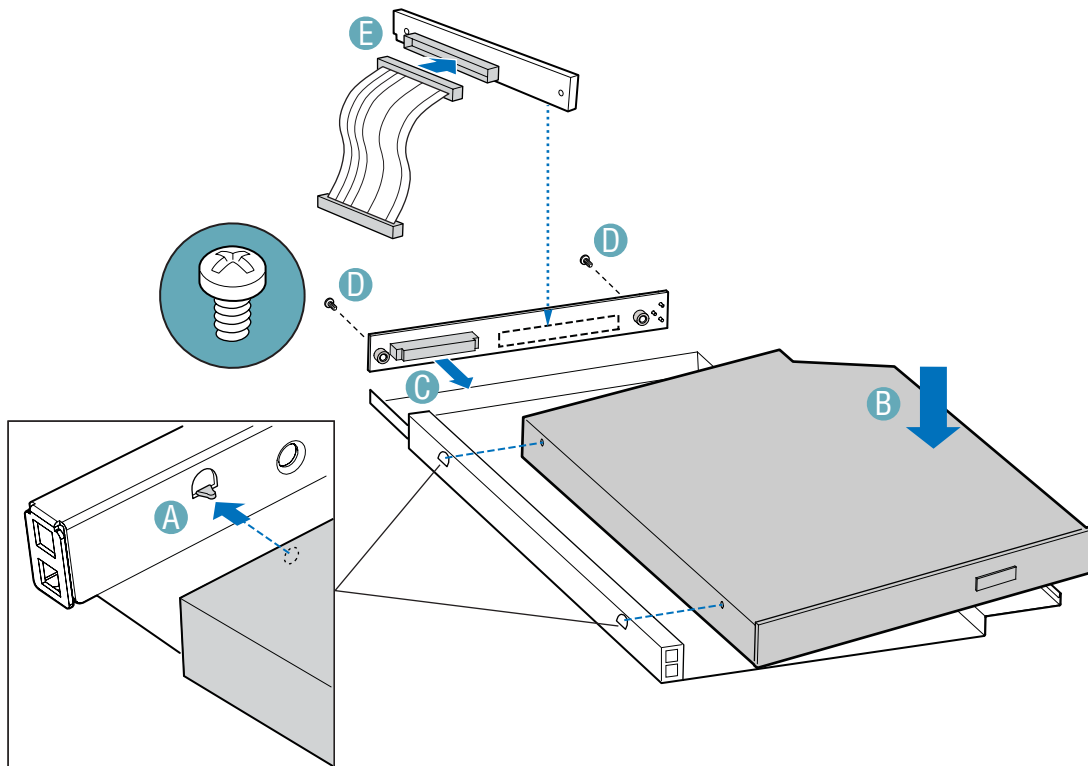
Figure 16. Installing Slimline Floppy Drive into Chassis

Install Slimline DVD-ROM or CD-ROM Drive (optional)

NOTE

The carrier for the slimline DVD-ROM drive / CD-ROM drive was pre-installed in the slimline drive bay of your chassis. You will need to remove it from the chassis before beginning.

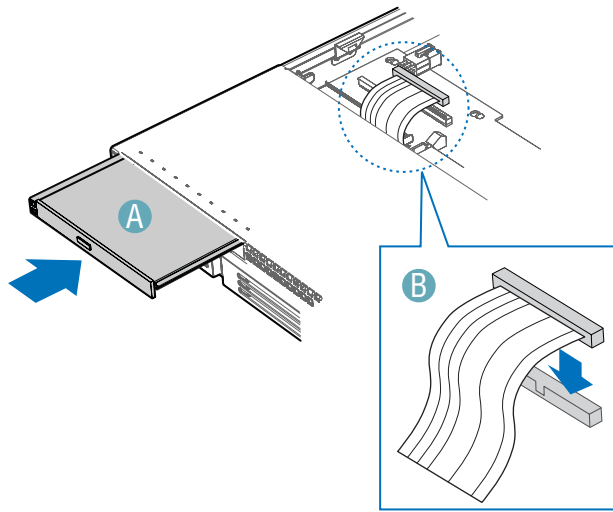
1. Align the two holes at left edge of DVD-ROM / CD-ROM drive with the cutouts in drive carrier. See letter “A” in the figure below.
2. Lower the right side of the DVD-ROM / CD-ROM drive into the carrier until it clicks into place. See letter “B” in the figure below.
3. Use the two screws indicated in the figure to attach the interposer board to the DVD-ROM / CD-ROM drive. See letters “C” and “D” in the figure.
4. Attach the 44-pin CD-ROM drive cable to the exposed side / back of the interposer board. See letter “E” in the figure.



TP01085

Figure 17. Installing Slimline DVD-ROM / CD-ROM Drive into Carrier

5. Insert the DVD-ROM / CD-ROM drive into the chassis. See letter “A” in the figure below.
6. Connect the loose end of the CD-ROM drive cable to the backplane connector. See letter “B” in the figure.

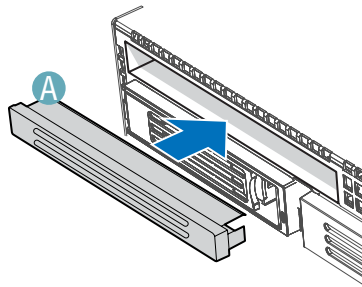


TP01155

Figure 18. Installing Slim Line DVD/CDROM Drive

Install Filler Panel

1. Install the slimline filler panel if you did not install a CD-ROM drive, DVD-ROM drive, or floppy drive. See letter “A” in the figure below. The filler panel was included with your server chassis.



TP01159

Figure 19. Installing Slimline Filler Panel

Complete Server System Integration

Return to the appropriate Quick Start User’s Guide:

- *Intel® Server Chassis SR1400 Quick Start User’s Guide*, continuing with Step 12. Disregard Step 18 and Step 19 in the Quick Start User’s Guide.
- *Intel® Server Platform SR1435VP2 Quick Start User’s Guide*, continuing with step 16.

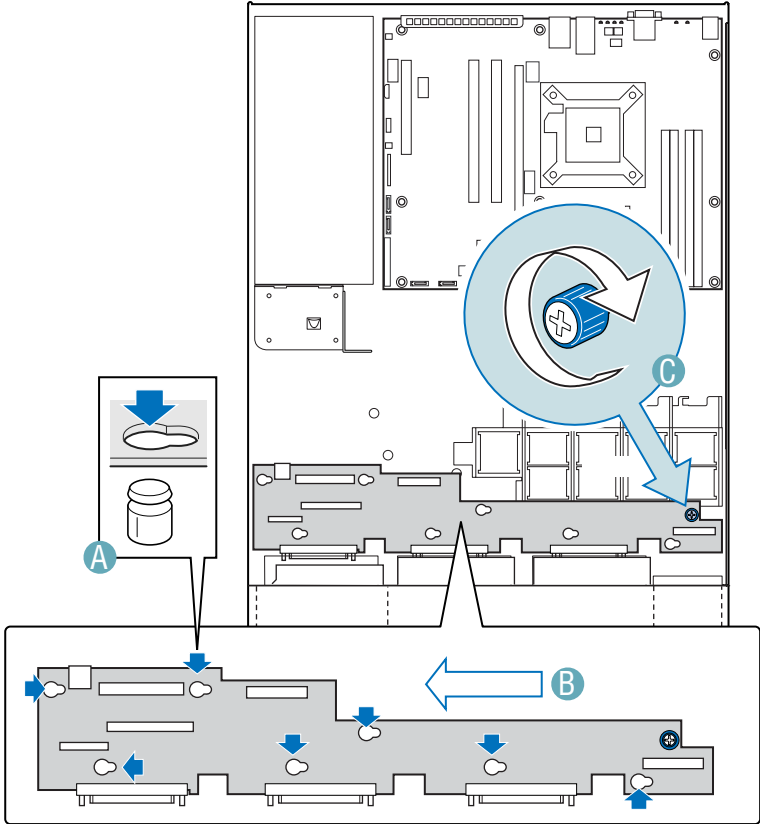
Installation into Intel® Server Platform SR1425BK1-E

Follow Steps in Quick Start User's Guide

Remove the CD-ROM tray if it is installed in the chassis. Follow the instructions in the *Intel® Server Platform SR1425BK1-E Quick Start User's Guide*. This guide came with your server chassis or platform. The Quick Start User's Guide will direct you to this guide at the appropriate point during the integration process.

Install the SATA or SCSI Backplane

1. Lift any cables out of the way.
2. Lower the backplane into the chassis, aligning the mounting holes. See letter “A” in the figure below.
3. Slide the backplane toward the power supply to lock it into place. See letter “B” in the figure.
4. Secure the backplane into the chassis with the blue thumbscrew. See letter “C” in the figure.

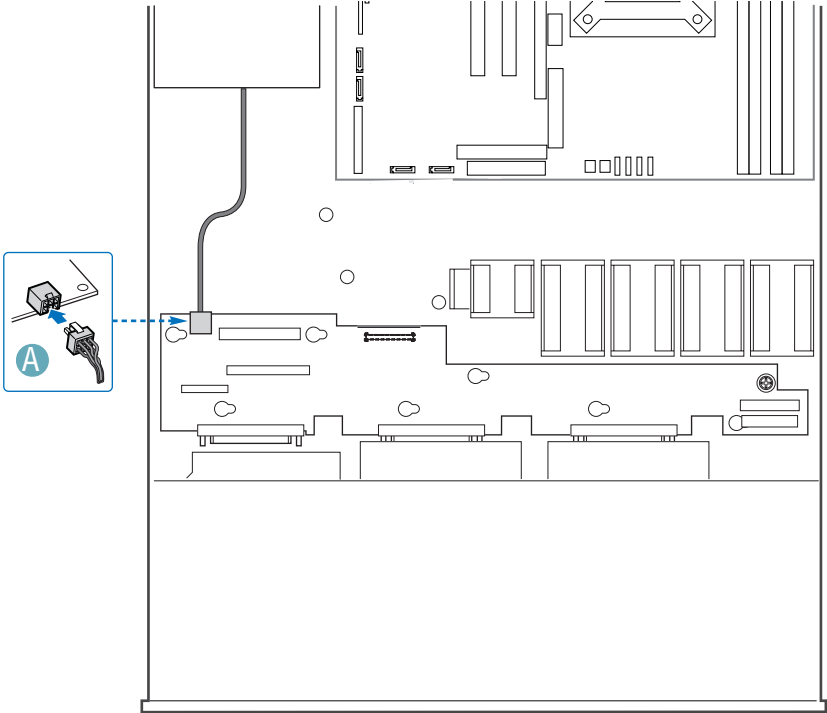


TP01501

Figure 20. Installing the SCSI or SATA Backplane

Connect Power Cable

- 1. Attach the 2x3 power cable from the power supply to the backplane as shown by letter “A” in the following figure.



TP01149

Figure 21. Connecting the Power Cable

Install the SATA Cable(s)

NOTES

Disregard this step if you installed the SCSI backplane and instead follow the steps for [Install the SCSI Cable](#).

1. Connect the SATA cable(s) to the connectors labeled DATA 0 and DATA 1 on the backplane. See letter “A” in the figure below to locate the backplane. See letter “B” in the figure to identify the end of the SATA cable that is attached to the backplane.

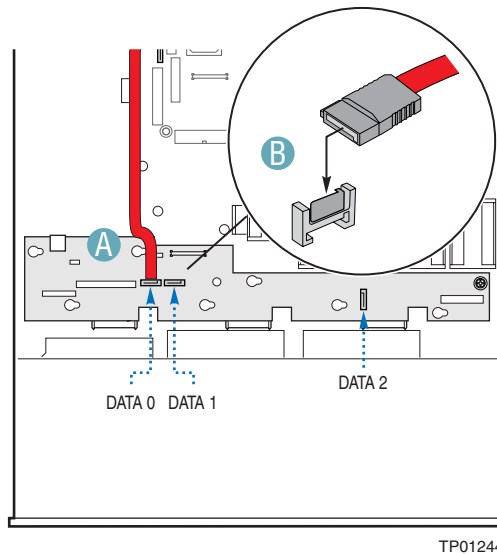


Figure 22. Connecting SATA Cable(s) to Backplane

Install the SCSI Cable

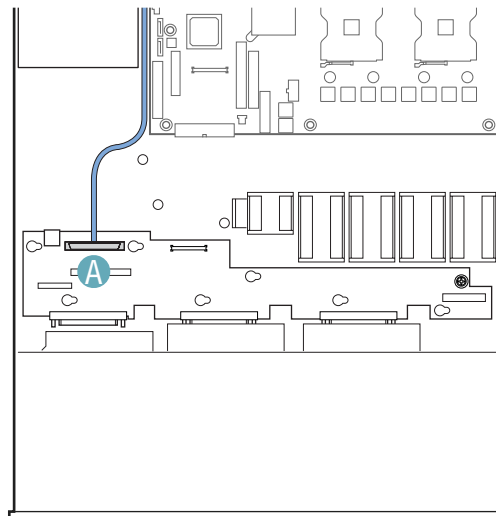


NOTES

Disregard this step if you installed the SATA backplane and instead follow the steps for [Install the SATA Cable\(s\)](#).

This server board requires the use of an add-in SCSI controller card. See the documentation included with the add-in SCSI card for cable connection information and any other card requirements.

1. Connect the end of the SCSI cable that is labeled “Backplane” to the backplane SCSI Connector. See letter “A” in the figure below.
2. Route the remaining end of the SCSI cable to the SCSI controller add-in card.



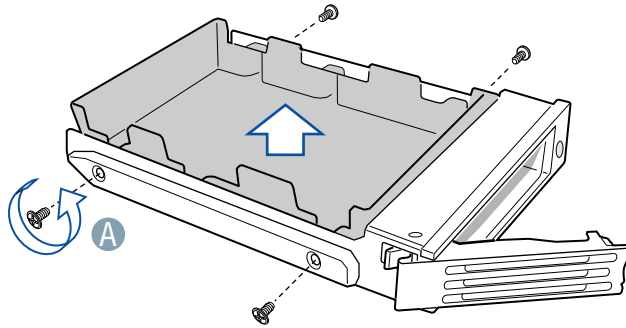
TP01245

Figure 23. Connecting SCSI Cable to Backplane

Install Hot-swap Hard Drives

Repeat the steps below for each hard drive to be installed. When installing your drive(s) into the chassis, the primary drive must be inserted into the left drive bay.

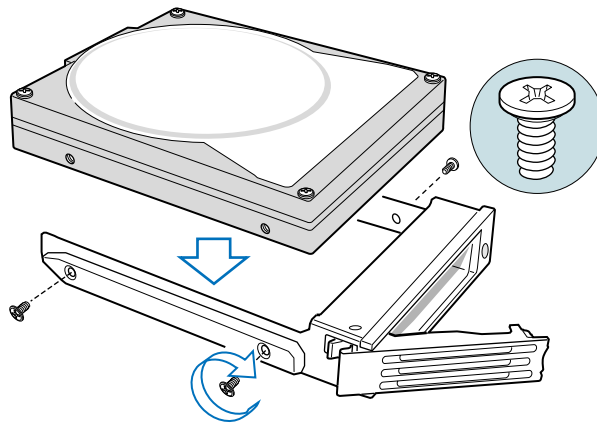
1. Set any jumpers and / or switches on the hard drive(s) according to the instructions that came with your hard drive(s).
2. Remove the four screws that hold the plastic baffle to the drive carrier. See letter “A” in the figure below. Store the plastic drive baffle for future use.



TP01184

Figure 24. Removing the Drive Baffle

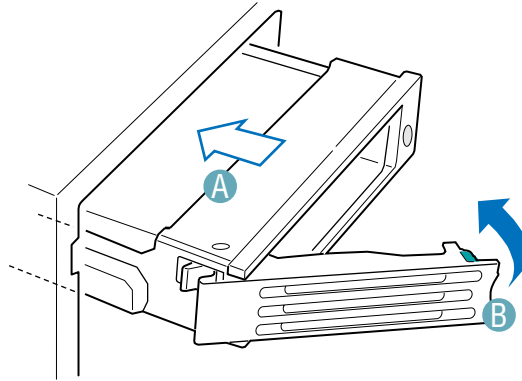
3. Position with the drive with circuit side facing down and the connector end of the drive facing the rear of the drive carrier.
4. Align the holes in the drive to the holes in the drive carrier and attach it to the carrier with the screws that were attached to the plastic retention device.



TP01140

Figure 25. Installing Hot-swap Hard Drives into Drive Carrier

5. With the black lever on the drive assembly in the fully open position, slide the drive assembly into the chassis. The green latch at the front of the drive carrier must be to the right. Do not push on the black drive carrier lever until the lever begins to close by itself.
6. When the black drive carrier lever begins to close by itself, close the lever to lock the drive assembly into place.



TP01141

Figure 26. Installing Hot-swap Hard Drive Carriers into Chassis

7. For proper chassis cooling, install empty drive carriers into drive bays where no drive will be installed.

Install Slimline Floppy Drive (optional)

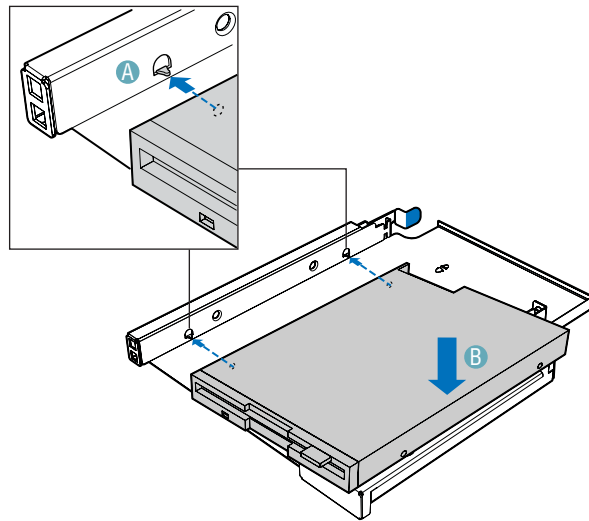


NOTES

The carrier for the slimline floppy drive was sent to you in the hardware kit that came with your server platform.

The carrier for the CD-ROM / DVD-ROM drive was shipped installed in your chassis. Remove the carrier from the platform before beginning.

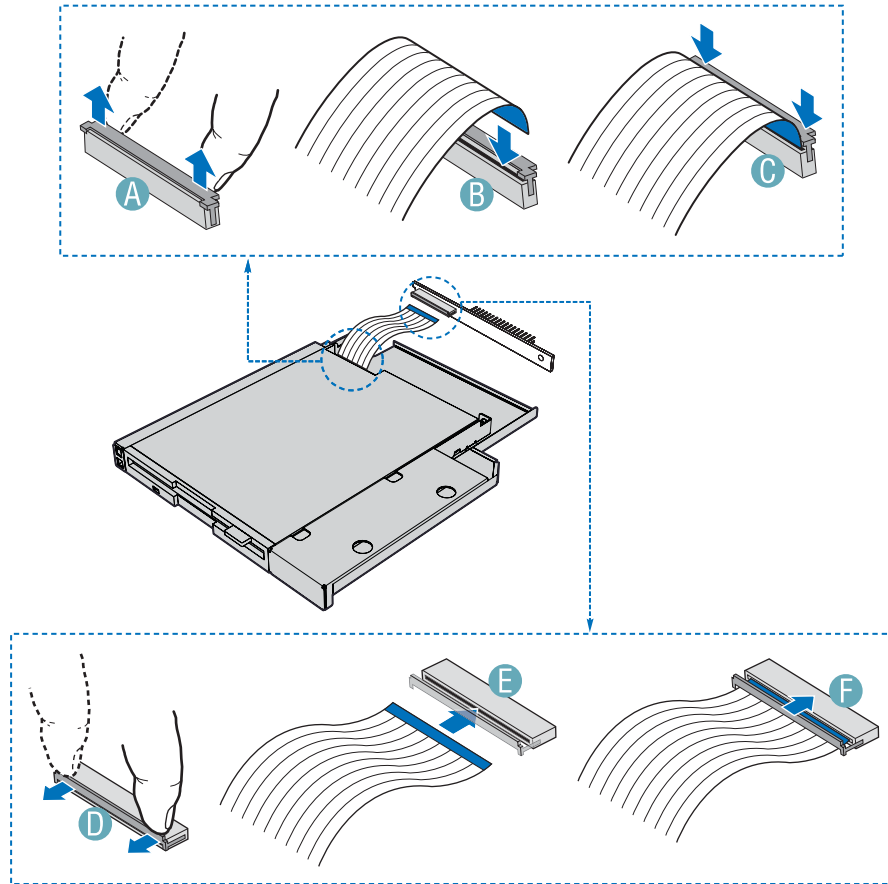
1. Align the two holes at the left side of the floppy drive with the two cutouts in the floppy drive carrier. See letter “A” in the figure below.
2. Lower the right side of the floppy drive into the carrier until it clicks into place.



TP01082

Figure 27. Installing Slimline Floppy Drive into Carrier

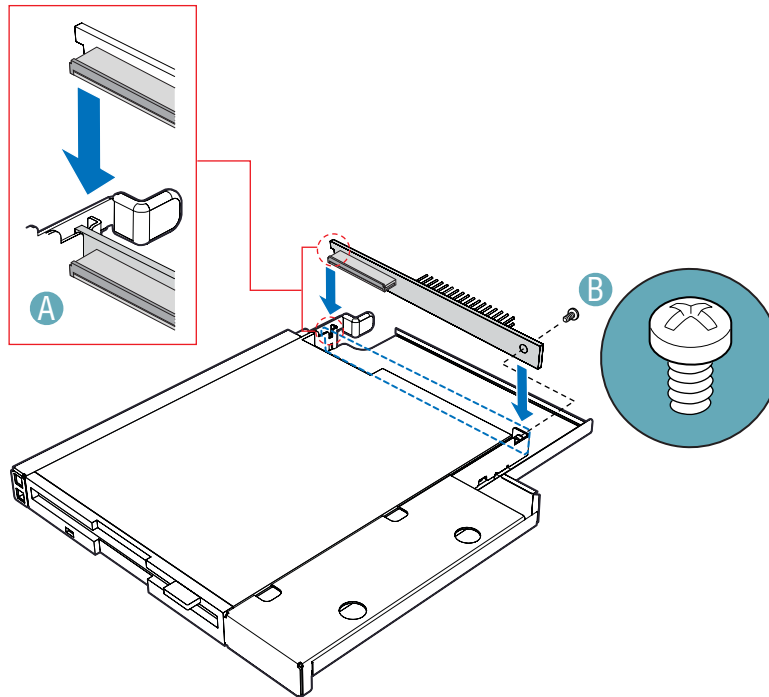
3. Open the connector on the rear of the floppy drive by pulling up on the connector cover. See letter “A” in the figure below.
4. Insert one end of the 26-pin flat flex cable end into the connector. See letter “B” in the figure.
5. Push down on the connector cover to lock the cable into place. See letter “C” in the figure.
6. Open the connector on the interposer board by pulling out on the connector cover. See letter “D” in the figure below.
7. Insert the loose end of the floppy cable into the interpose board connector. See letter “E” in the figure.
8. Push in on the connector cover to lock the cable into place. See letter “F” in the figure.



TP01162

Figure 28. Installing 26-pin Flat Flex Data Cable

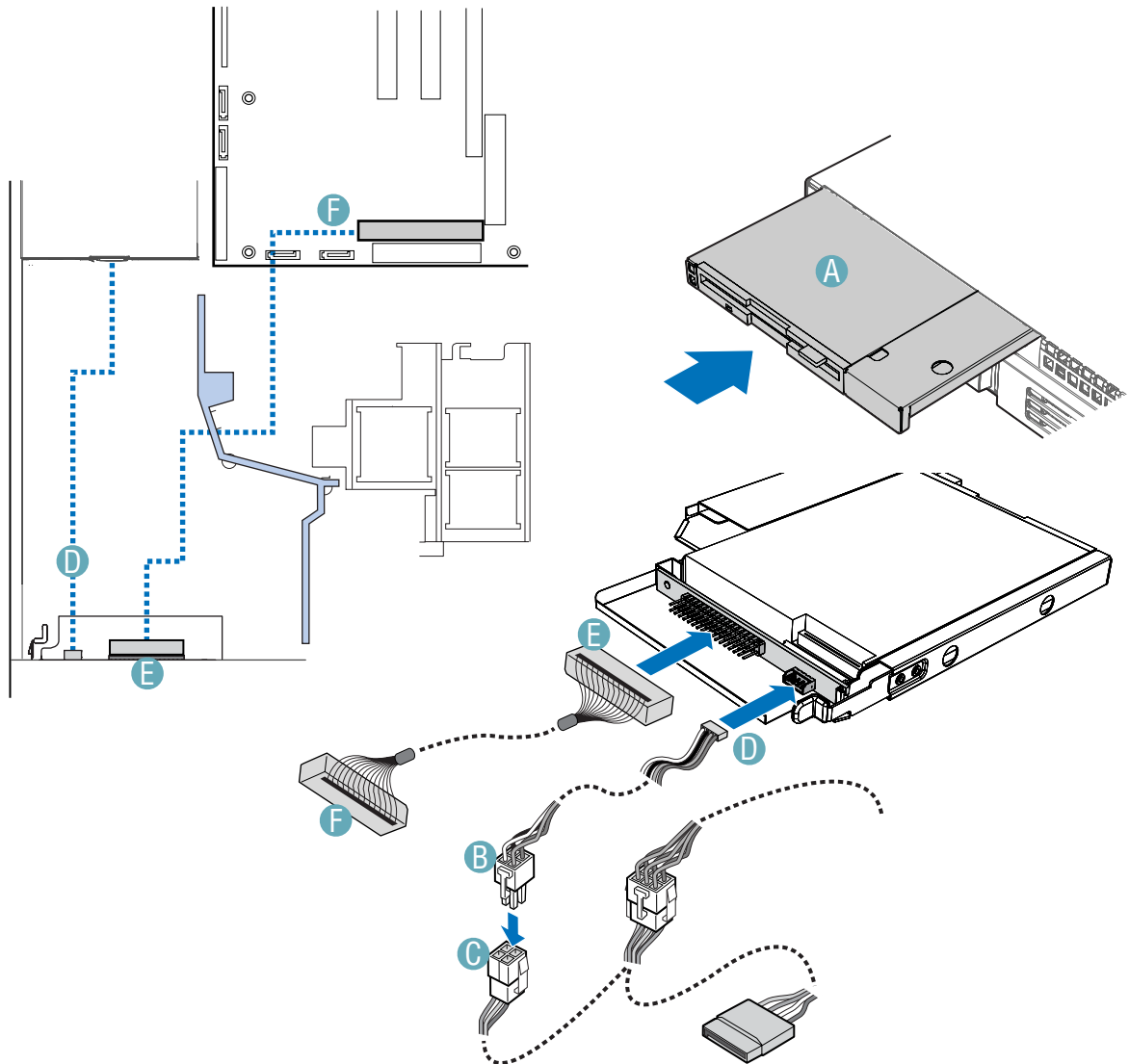
9. Lower the interposer board into the floppy drive tray and engage the notch. See Letter “A” in the figure below.
10. Attach the interposer board to floppy drive with the screw that was included with the interposer board. See letter “B” in the figure. In the diagram, the flat flex cable been removed for clarity.



TP01164

Figure 29. Installing Floppy Drive Interposer Board

11. Slide the floppy drive assembly into the chassis until it clicks into place. See letter “A” in the figure below.
12. Connect the 2x2 end of the floppy drive power cable that was included with your kit to the 2x2 power connector on the SATA power adapter cable. See letters “B” and “C” in the figure below.
13. Connect the remaining end of the floppy drive power cable to the power connector on the floppy drive interposer board. See letter “D” in the figure.
14. Connect the floppy drive data cable that was included with your kit between the floppy drive data connector and the server board. See letters “E” and “F” in the figure. See your server board documentation for assistance in locating the connector location on the server board.



TP01174

Figure 30. Installing Slimline Floppy Drive into Chassis

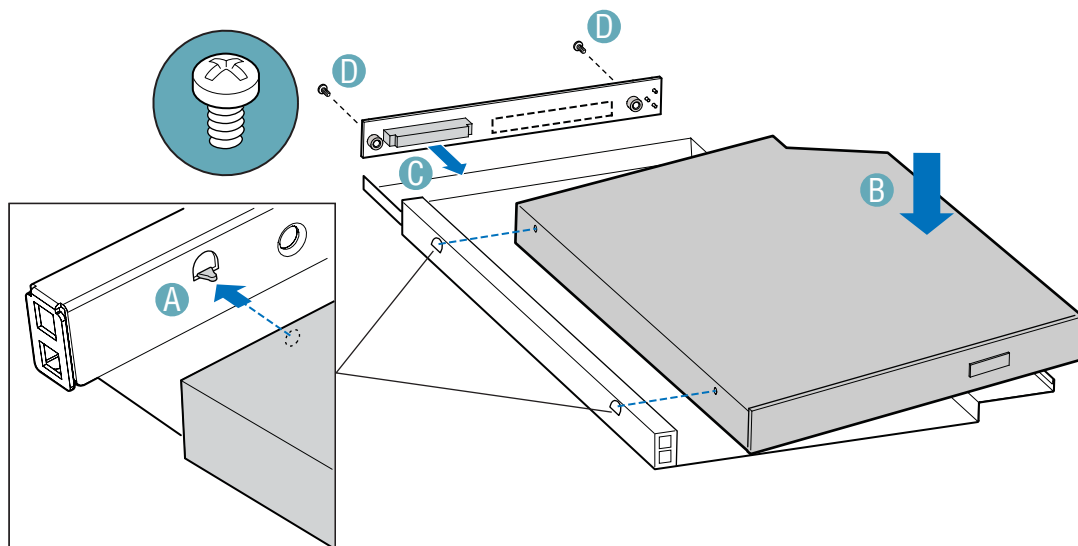
Install Slimline DVD-ROM or CD-ROM Drive (optional)



NOTE

The carrier for the slimline DVD-ROM drive / CD-ROM drive was pre-installed in the slimline drive bay of your server platform. You will need to remove it from the chassis before beginning.

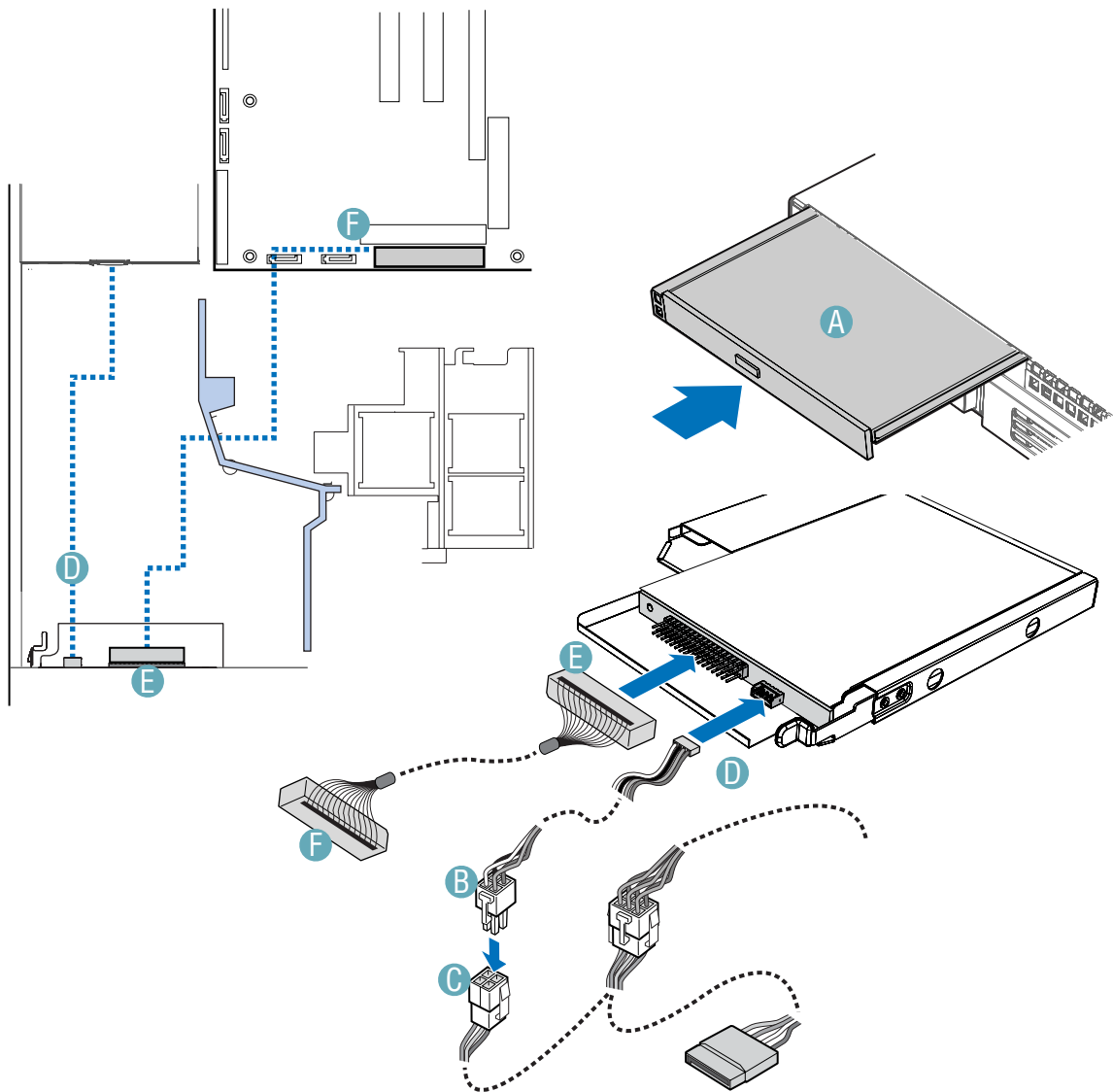
1. Align the two holes at left edge of DVD-ROM / CD-ROM drive with the cutouts in drive carrier. See letter “A” in the figure below.
2. Lower the right side of the DVD-ROM / CD-ROM drive into the carrier until it clicks into place. See letter “B” in the figure below.
3. Use the two screws indicated in the figure to attach the interpose board to the DVD-ROM / CD-ROM drive. See letters “C” and “D” in the figure.



TP01166

Figure 31. Installing DVD-ROM or CD-ROM Drive into Carrier

4. Insert the DVD-ROM / CD-ROM drive into the chassis. See letter “A” in the figure below.
5. Connect the 2x2 end of the DVD-ROM/CD-ROM drive power cable that was included with your kit to the 2x2 power connector on the SATA power adapter cable. See letters “B” and “C” in the figure below.
6. Connect the remaining end of the drive power cable to the power connector on the rear of the DVD-ROM or CD-ROM drive interposer board. See letter “D” in the figure.
7. Connect the DVD-ROM / CD-ROM drive data cable that was included with your kit between the interposer board and the IDE connector on the server board. See letters “E” and “F” in the figure. See your server board documentation for assistance in locating the connector location on the server board.

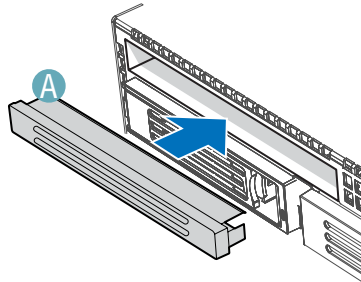


TP01176

Figure 32. Installing DVD-ROM or CD-ROM Drive into Chassis

Install Filler Panel

1. Install the slimline filler panel if you did not install a CD-ROM drive, DVD-ROM drive, or floppy drive. See letter “A” in the figure below. The filler panel was included with your server chassis.



TP01159

Figure 33. Installing Slimline Filler Panel

Complete Server System Integration

Return to the *Intel® Server Chassis SR1425BK1-E Quick Start User's Guide*, continuing with Step 12, and skipping step 13.