

IBM 5Ux26D Tower-to-Rack Conversion Kit



Installation Instructions

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Installation Instructions

Note:

Before using this information and the product it supports, read the general information in Appendix B, "Warranty Information," on page 33, and Appendix C, "Notices," on page 45.

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Safety

Before installing this product, read the Safety Information.

قبل تركيب هذا المنتج، يجب قراءة الملاحظات الأمنية

Antes de instalar este produto, leia as Informações de Segurança.

在安装本产品之前，请仔细阅读 **Safety Information** (安全信息)。

安裝本產品之前，請先閱讀「安全資訊」。

Prije instalacije ovog produkta obavezno pročitajte Sigurnosne Upute.

Před instalací tohoto produktu si přečtěte příručku bezpečnostních instrukcí.

Læs sikkerhedsforskrifterne, før du installerer dette produkt.

Lees voordat u dit product installeert eerst de veiligheidsvoorschriften.

Ennen kuin asennat tämän tuotteen, lue turvaohjeet kohdasta Safety Information.

Avant d'installer ce produit, lisez les consignes de sécurité.

Vor der Installation dieses Produkts die Sicherheitshinweise lesen.

Πριν εγκαταστήσετε το προϊόν αυτό, διαβάστε τις πληροφορίες ασφαλείας (safety information).

לפני שתתקינו מוצר זה, קראו את הוראות הבטיחות.

A termék telepítése előtt olvassa el a Biztonsági előírásokat!

Prima di installare questo prodotto, leggere le Informazioni sulla Sicurezza.

製品の設置の前に、安全情報をお読みください。

본 제품을 설치하기 전에 안전 정보를 읽으십시오.

Пред да се инсталира овој продукт, прочитајте информацијата за безбедност.

Les sikkerhetsinformasjonen (Safety Information) før du installerer dette produktet.

Przed zainstalowaniem tego produktu, należy zapoznać się z książką "Informacje dotyczące bezpieczeństwa" (Safety Information).

Antes de instalar este produto, leia as Informações sobre Segurança.

Перед установкой продукта прочтите инструкции по технике безопасности.

Pred inštaláciou tohto zariadenia si pečítajte Bezpečnostné predpisy.

Pred namestitvijo tega proizvoda preberite Varnostne informacije.

Antes de instalar este producto, lea la información de seguridad.

Läs säkerhetsinformationen innan du installerar den här produkten.

Important:

Each caution and danger statement in this document is labeled with a number. This number is used to cross reference an English-language caution or danger statement with translated versions of the caution or danger statement in the *IBM Safety Information* book.

For example, if a caution statement is labeled "Statement 1", translations for that caution statement are in the *Safety Information* document under "Statement 1".

Be sure to read all caution and danger statements in this document before you perform the procedures. Read any additional safety information that comes with the server or optional device before you install the device.

Statement 1:



DANGER

Electrical current from power, telephone, and communication cables is hazardous.

To avoid a shock hazard:

- **Do not connect or disconnect any cables or perform installation, maintenance, or reconfiguration of this product during an electrical storm.**
- **Connect all power cords to a properly wired and grounded electrical outlet.**
- **Connect to properly wired outlets any equipment that will be attached to this product.**
- **When possible, use one hand only to connect or disconnect signal cables.**
- **Never turn on any equipment when there is evidence of fire, water, or structural damage.**
- **Disconnect the attached power cords, telecommunications systems, networks, and modems before you open the device covers, unless instructed otherwise in the installation and configuration procedures.**
- **Connect and disconnect cables as described in the following table when installing, moving, or opening covers on this product or attached devices.**

To Connect:

1. Turn everything OFF.
2. First, attach all cables to devices.
3. Attach signal cables to connectors.
4. Attach power cords to outlet.
5. Turn device ON.

To Disconnect:

1. Turn everything OFF.
2. First, remove power cords from outlet.
3. Remove signal cables from connectors.
4. Remove all cables from devices.

Statement 3:



CAUTION:

When laser products (such as CD-ROMs, DVD drives, fiber optic devices, or transmitters) are installed, note the following:

- Do not remove the covers. Removing the covers of the laser product could result in exposure to hazardous laser radiation. There are no serviceable parts inside the device.
- Use of controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.



DANGER

Some laser products contain an embedded Class 3A or Class 3B laser diode. Note the following.

Laser radiation when open. Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam.

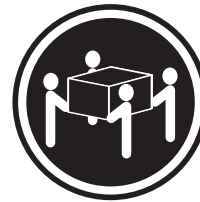
Statement 4:



≥ 18 kg (39.7 lb)



≥ 32 kg (70.5 lb)



≥ 55 kg (121.2 lb)

CAUTION:

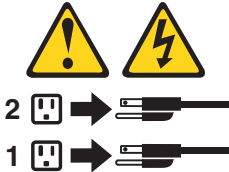
Use safe practices when lifting.

Statement 5:



CAUTION:

The power control button on the device and the power switch on the power supply do not turn off the electrical current supplied to the device. The device also might have more than one power cord. To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.



Statement 6:



CAUTION:

If you install a strain-relief bracket option over the end of the power cord that is connected to the device, you must connect the other end of the power cord to an easily accessible power source.

Statement 7:



CAUTION:

If the device has doors, be sure to remove or secure the doors before moving or lifting the device to avoid personal injury. The doors will not support the weight of the device.

Statement 8:



CAUTION:

Never remove the cover on a power supply or any part that has the following label attached.



Hazardous voltage, current, and energy levels are present inside any component that has this label attached. There are no serviceable parts inside these components. If you suspect a problem with one of these parts, contact a service technician.

Statement 11:



CAUTION:

The following label indicates sharp edges, corners, or joints nearby.



Statement 12:



CAUTION:

The following label indicates a hot surface nearby.



Statement 13:



DANGER

Overloading a branch circuit is potentially a fire hazard and a shock hazard under certain conditions. To avoid these hazards, ensure that your system electrical requirements do not exceed branch circuit protection requirements. Refer to the information that is provided with your device for electrical specifications.

Statement 15:



CAUTION:

Make sure that the rack is secured properly to avoid tipping when the server unit is extended.

Statement 17:



CAUTION:

The following label indicates moving parts nearby.



Statement 26:



CAUTION:

Do not place any object on top of rack-mounted devices.



Chapter 1. The 5Ux26D Tower-to-Rack conversion kit

The IBM® 5Ux26D Tower-to-Rack Conversion Kit contains the parts that you need to convert a 5 U server that is 66.04 cm (27 in.) deep from a tower model to a rack model. You can then install the server into a rack cabinet that is at least 66.04 cm (27 in.) deep.

The following parts come with the 5Ux26D Tower-to-Rack Conversion Kit:

- One chassis conversion package

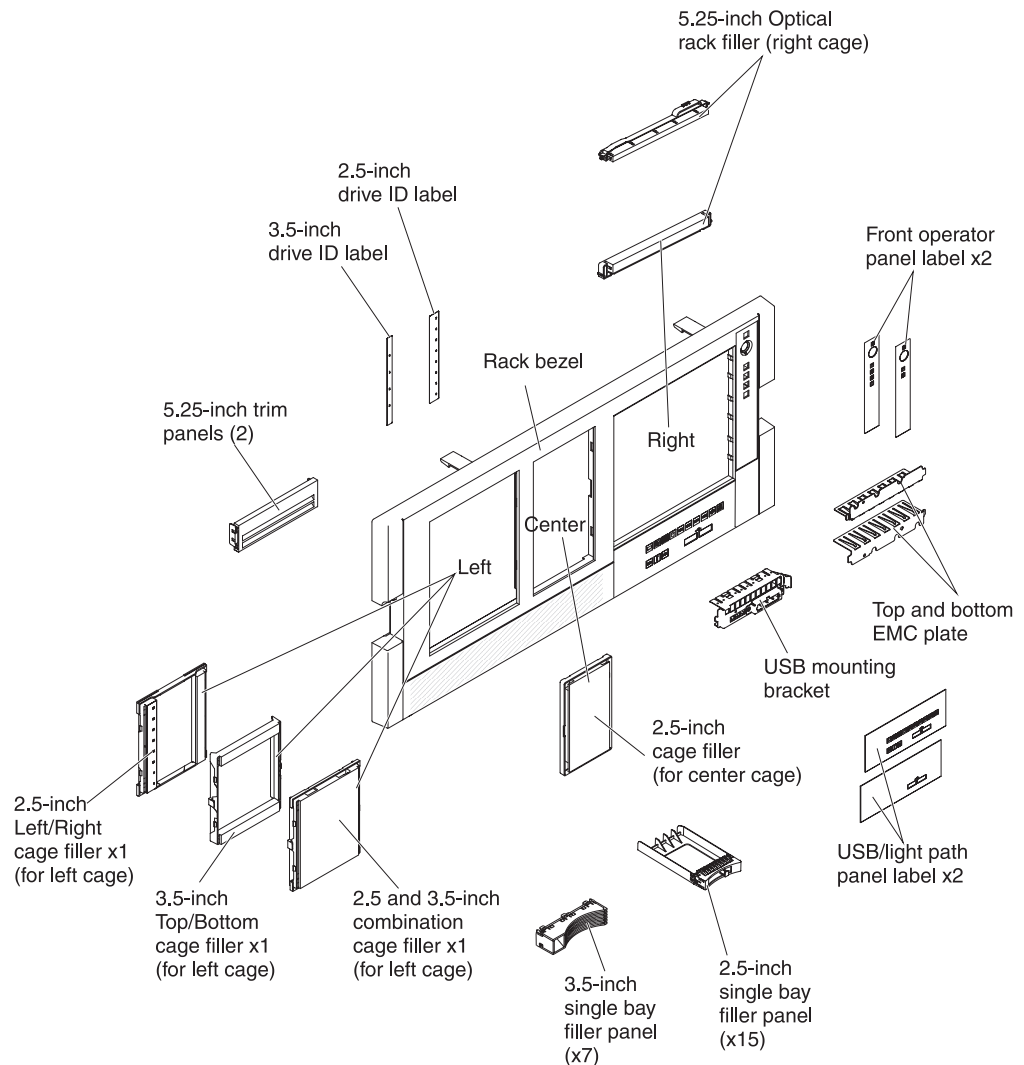


Figure 1. Tower-to-rack chassis conversion package

- Bottom cover
- One rack mounting kit (includes rack-mounting instructions, template, and the following hardware)

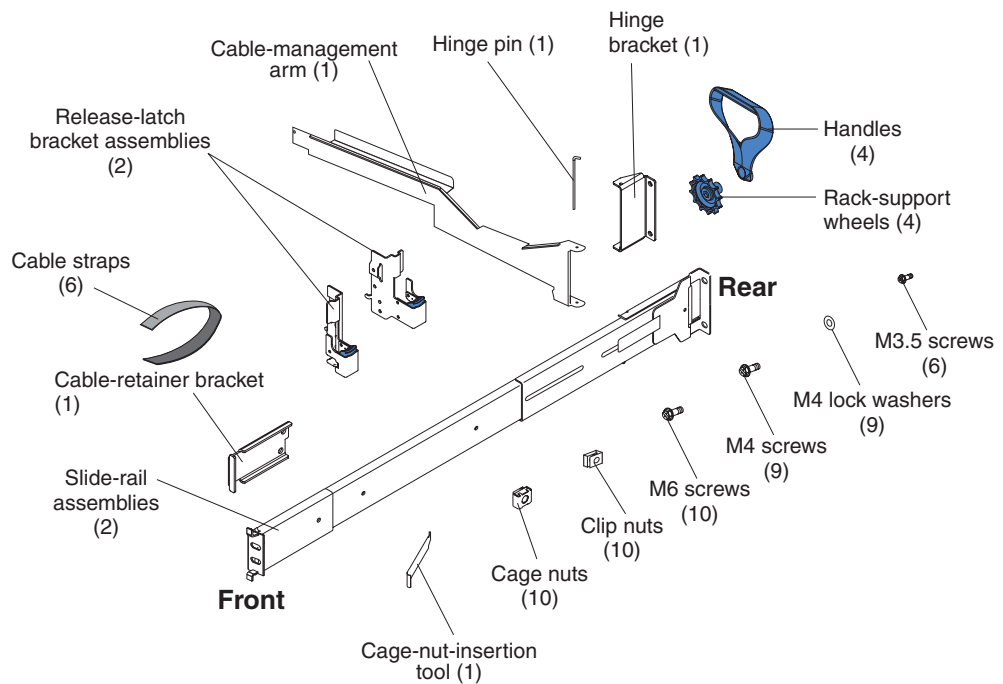


Figure 2. Rack mounting kit components

Note: The illustration of the rack mounting kit in this document might be slightly different from your hardware.

- *IBM 5Ux26D Tower-to-Rack Conversion Kit Installation Instructions* (this document)

What you will need

You will need the following tools to install the 5Ux26D Tower-to-Rack Conversion Kit:

- A small flat-blade screwdriver
- A medium Phillips screwdriver
- An 8 mm open-end or box wrench
- A 10 mm nut driver or a 10 mm open-end or box wrench
- Pliers

Installation guidelines

Before you install the 5Ux26D Tower-to-Rack Conversion Kit, read the following information:

- Read the safety information that comes with your server.
- Read these instructions and the rack installation instructions to familiarize yourself with the installation procedures.
- Inventory the kit items as listed in the parts list that begins on page 1.
- Remove all media (diskettes, CDs, optical discs, or tapes) from the drives of your server.

Handling static-sensitive devices

Attention: Static electricity can damage electronic devices and your server. To avoid damage, keep static-sensitive devices in their static-protective packages until you are ready to install them.

To reduce the possibility of electrostatic discharge, observe the following precautions:

- Limit your movement. Movement can cause static electricity to build up around you.
- Wear an electrostatic-discharge wrist strap, if one is available.
- Handle the device carefully, holding it by its edges or its frame.
- Do not touch solder joints, pins, or exposed circuitry.
- Do not leave the device where others can handle and damage it.
- While the device is still in its static-protective package, touch it to an unpainted metal part of the server for at least 2 seconds. This drains static electricity from the package and from your body.
- Remove the device from its package and install it directly into the server without setting down the device. If it is necessary to set down the device, put it back into its static-protective package. Do not place the device on the server cover or on a metal surface.
- Take additional care when handling devices during cold weather. Heating reduces indoor humidity and increases static electricity.

Chapter 2. Installing the Tower-to-Rack conversion kit

This section provides the information for converting your tower model server to a rack-mounted server.

Notes:

1. This kit is designed for converting several different server models. Your server might look different from the servers that are illustrated, and some parts of the kit might not be used.
2. Except where indicated otherwise, illustrations in this document show hot-swap models.

Preparing the server

To prepare the server, complete the following steps:

1. Read the safety information that begins on page v, “Installation guidelines” on page 3, and “Handling static-sensitive devices” on page 3.
2. Shut down the server operating system.
3. Turn off the server and disconnect all cables.
4. Remove all drives and drive bay EMC shields from the server.

Attention: On simple-swap models, remove the hard disk drives and EMC shields from the hard disk drive bays; do not attempt to remove the permanent panel that covers the upper portion of the hard disk drive bay area.

Note: For instructions for turning off the server, see the documentation that comes with the server.

Removing the covers, bezel, and feet

To remove the covers, bezel, and feet from the server, complete the following steps:

1. Unlock the left-side cover and pull the cover-release latch down while you rotate the top edge of the cover away from the server; then, lift the cover off the server. Save the cover for use as the top cover in the rack configuration.

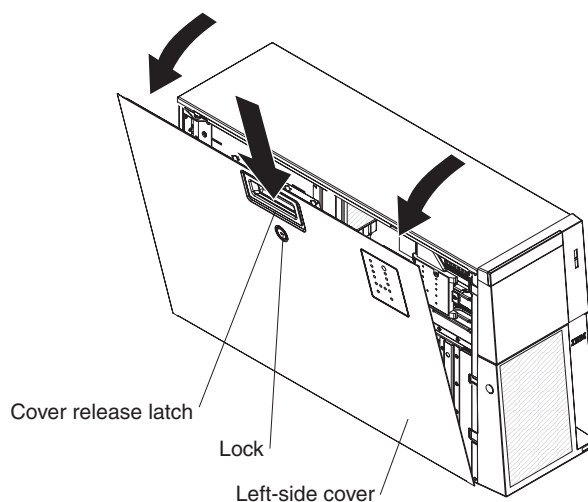


Figure 3. Removing the side cover

2. Press on the left edge of the bezel, and rotate the left side of the bezel away from the server. Rotate the left edge of the bezel out beyond 90°.

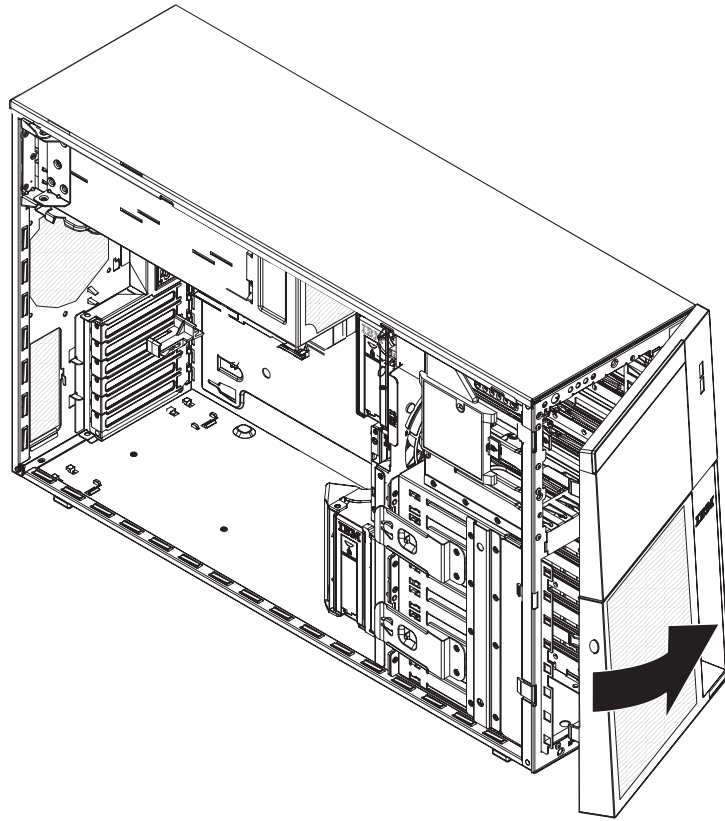


Figure 4. Removing the bezel

3. To remove the bezel completely, press the retention tabs on the hinge assembly toward each other and pull the hinge assembly out of the chassis.

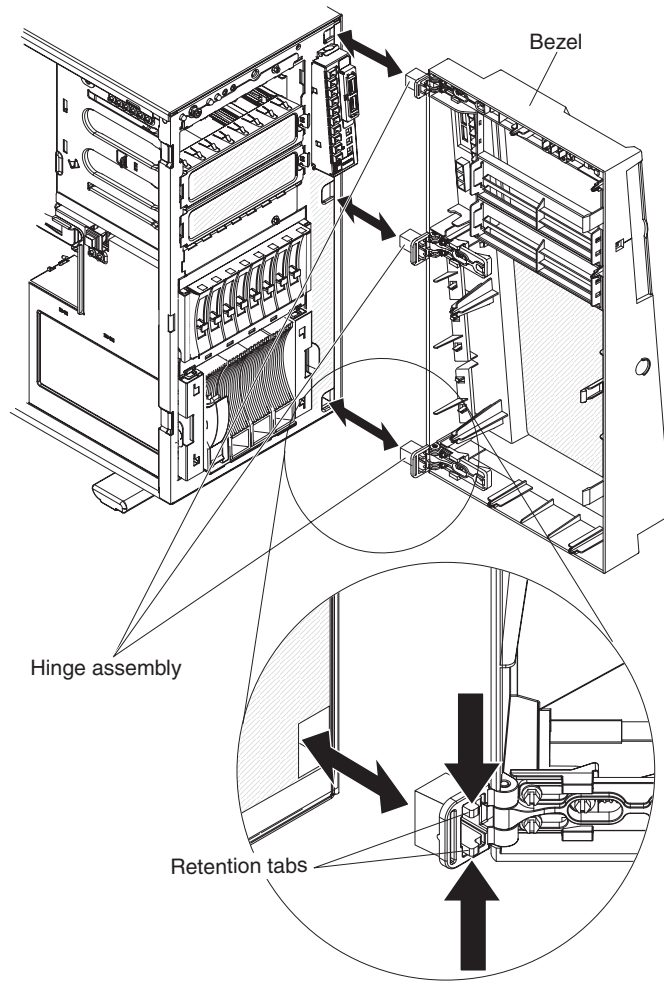


Figure 5. Retention tabs

Note: While pressing the retention tabs together, you might need a screwdriver to help pry the hinge out.

4. Remove the right-side cover:
 - a. From the rear of the server, remove the screws that hold the right-side cover in place.

Note: Save the screws for use in step 3c on page 13.

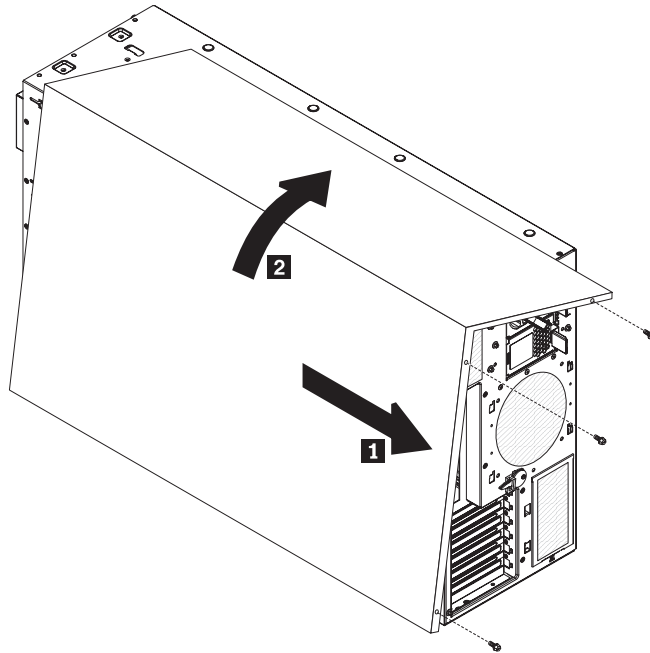


Figure 6. Removing the right-side cover

- b. Slide the right-side cover toward the rear of the server approximately 25 mm (1 in.); then, lift the right-side cover away from the server. Store the right-side cover for potential future use.
5. If you have not done so already, remove the hard disk drives and all the filler panels from the server bays and set them aside.

Important: Make a note of which drives are in which bays before you remove the drives.

Attention: Do not attempt to remove the permanent panel that covers the lower portion of the hard disk drive bay area.
6. Remove the four feet from the bottom of the server.

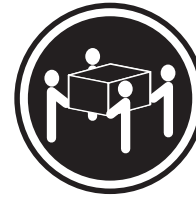
Statement 4:



≥ 18 kg (39.7 lb)



≥ 32 kg (70.5 lb)



≥ 55 kg (121.2 lb)

CAUTION:

Use safe practices when lifting.

- a. Carefully position the server on a flat surface as shown in the following illustration. The feet should hang over the edge of the flat surface to ease removal.

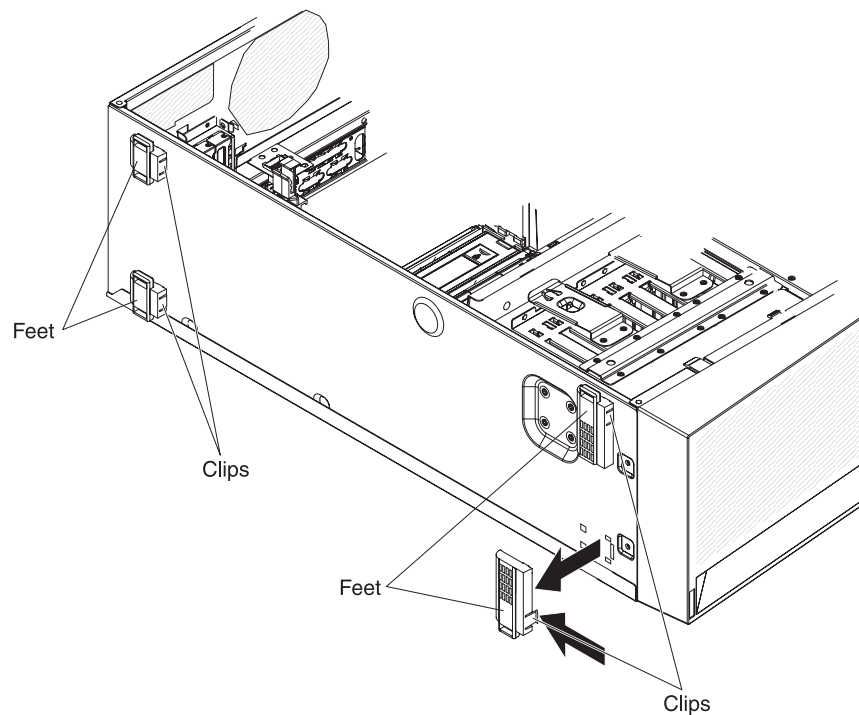


Figure 7. Removing the server feet

- b. Carefully use a flat-blade screwdriver to push in the clips on each of the four feet and remove them from the server. Store the feet for possible future use.
7. Remove the six M4 screws from the server as shown in Figure 8 on page 10. Save these screws for rail installation.

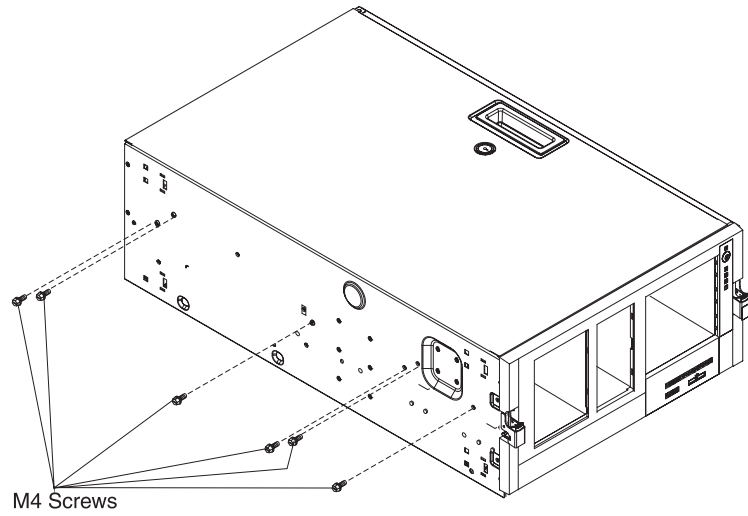


Figure 8. Removing the six M4 screws

Relocating and installing hardware, covers, and bezel

Complete the steps in this section to:

- Remove the EMC shields from the 5.25-inch drive cage
- Install the new EMC shields in the 5.25-inch drive cage
- Install the new bottom cover
- Remove the USB cable assembly
- Install the new USB cable assembly
- Install the top cover
- Install the new bezel
- Install the rack-support wheels
- Install the release-latch-bracket assemblies

1. Remove the screws that hold the EMC shields to the drive cage; then, remove the shields. Save the screws to install the new EMC shields.

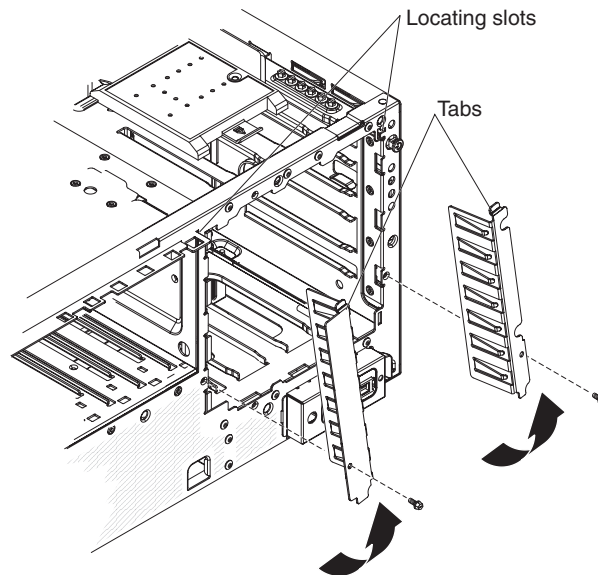


Figure 9. Removing the EMC shields from the 5.25-inch drive cage

2. Install the new EMC shields in the 5.25-inch drive cage:

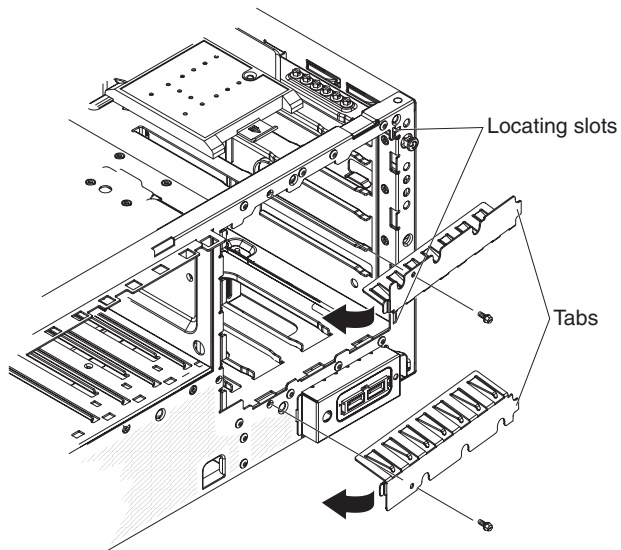


Figure 10. Installing new EMC shields in the 5.25-inch drive cage

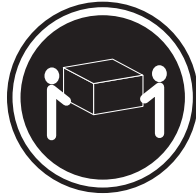
- a. Insert the tab on each shield into its slot along the side of the drive cage.
- b. Align the hole in the shield with the hole in the edge of the drive cage.
- c. Insert the self-threading screws that you removed in step 1 on page 11 to secure the shields in place. To continue with the next procedure, go to step 3 on page 13.

Attention: "Top" and "Bottom" are marked on the new EMC shields. Follow the indication while installing.

Note: The self-threading screws might require some effort to install.

3. Install the new bottom cover that comes with this kit as shown in the following picture:

Statement 4:



≥ 18 kg (39.7 lb)



≥ 32 kg (70.5 lb)



≥ 55 kg (121.2 lb)

CAUTION:

Use safe practices when lifting.

- a. Carefully turn the server top-side down on a flat surface and place the bottom cover on the server.

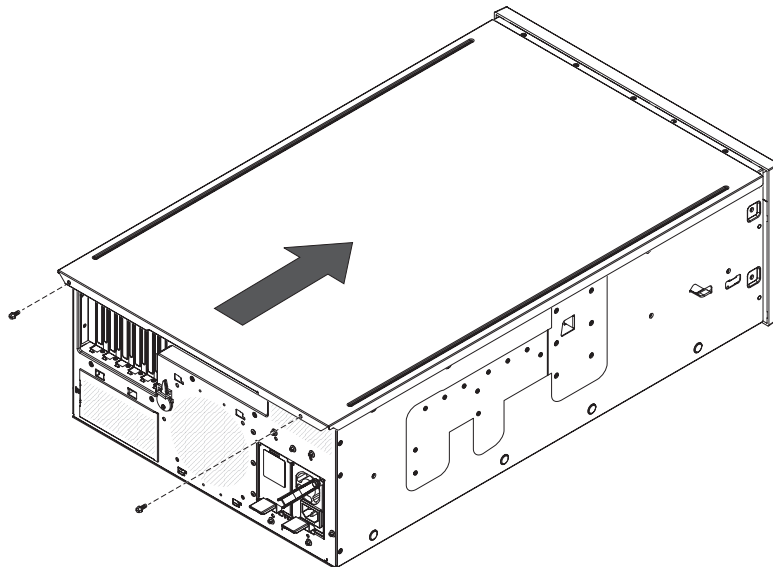


Figure 11. Installing the new bottom cover

- b. Align the bottom cover with the frame of the server; then, slide the cover toward the front, making sure that the tabs on the rear and front of the cover fit into the slots on the rear and front of the server.
 - c. Secure the bottom cover in place with two of the screws that you removed in step 4a on page 8.
 - d. To continue with the next installation procedure, carefully turn the server top-side up on a flat surface.
4. Remove the USB cable assembly:
 - a. Depending on your server model, disconnect the USB or the light path diagnostics cable from the system board (refer to the documentation that comes with your server).

- b. Press down on the release latch on the top of the USB cable and light path diagnostics assembly mounting bracket; then, rotate the top of the mounting bracket away from the server.

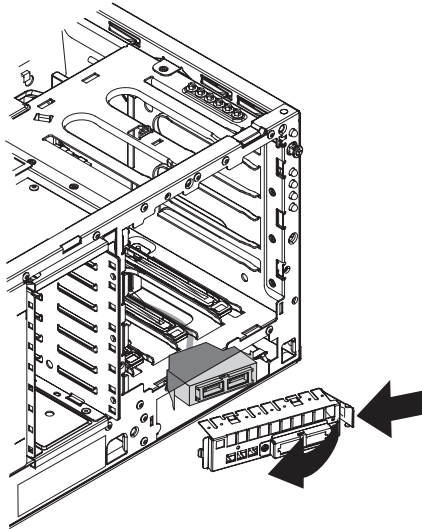


Figure 12. Removing the angled USB assembly

- c. To remove the angled assembly, squeeze the sides of the USB connector and remove it from the angled assembly. To install the flat USB assembly, squeeze the sides of the USB connector and connect it to the flat USB assembly.

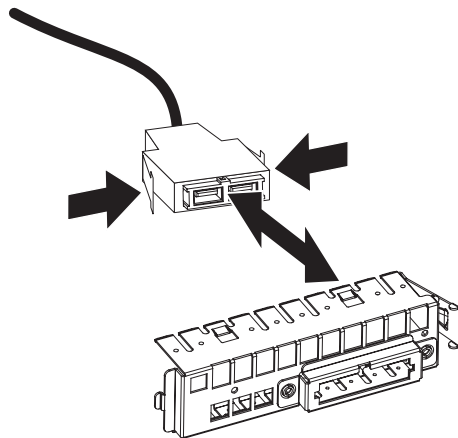


Figure 13. Removing and installing the USB connector

5. Install the new USB cable assembly:
 - a. Insert the assembly tab into the slot on the server and rotate the flat USB assembly into the chassis.

Note: The connector is keyed and fits in the assembly only one way.

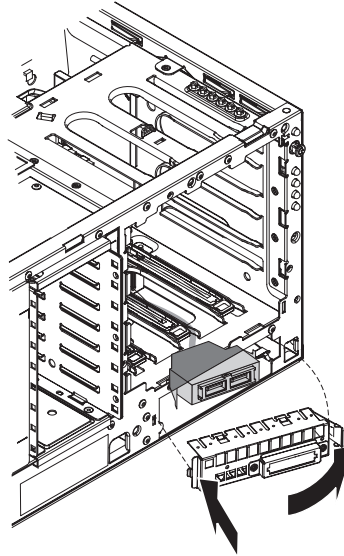


Figure 14. Installing the flat USB assembly

- b. Depending on your server model, connect the USB or the light path diagnostics cable to the system board (refer to the documentation that comes with your server).
6. Install the top cover:

Note: The cover that you removed in step 1 on page 5 is now the top cover. The cover-release latch must be in the unlocked (opened) position before you install the top cover.

- a. Align the top cover with the left edge of the top of the server.

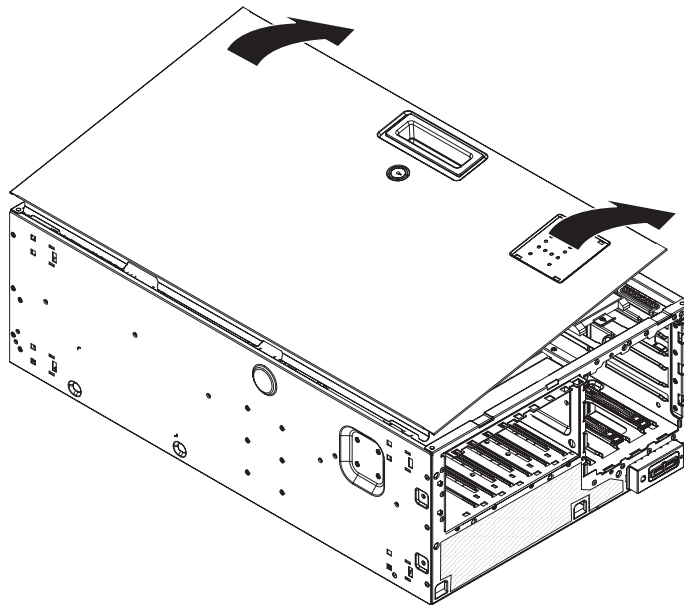


Figure 15. Installing the top cover

- b. Hold the top cover against the server and rotate it closed.

Note: Make sure that the front edge of the cover is flat against the server.

7. Preparing the new bezel:
 - a. Install the cage fillers and attach the drive ID label:
 - 1) For models with four 3.5-inch hard disk drives:
 - a) Attach the 3.5-inch drive ID label.
 - b) Install the 3.5-inch Top/Bottom cage filler on the left rack from inside.
 - c) Install the 2.5-inch cage filler in the center rack from inside.
 - d) Insert the left side of the 5.25-inch optical rack fillers into the right rack of the bezel and then rotate the fillers into the opening until it snaps into place.

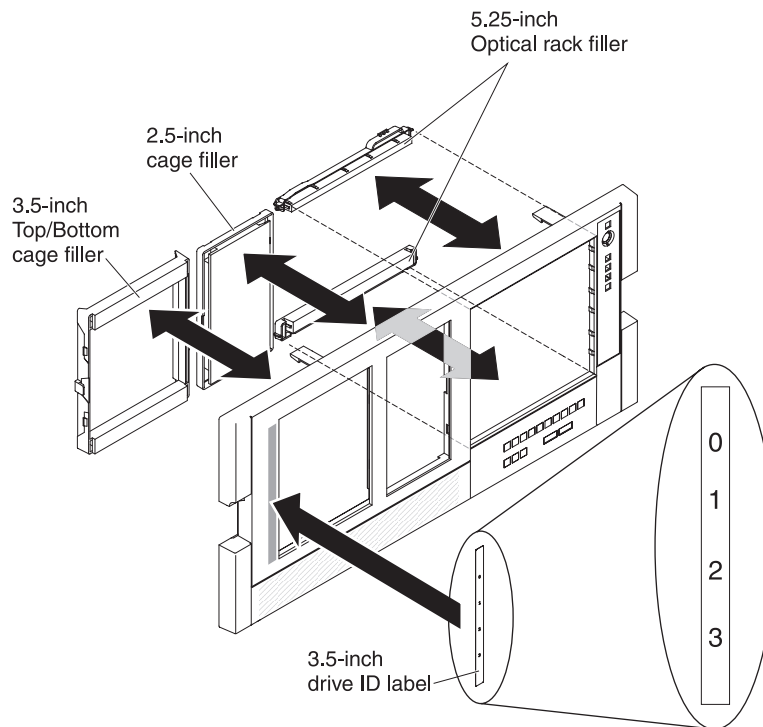


Figure 16. Installing the cage fillers and attaching the drive ID label (models with four 3.5-inch hard disk drives)

- 2) For models with eight 2.5-inch hard disk drives:
 - a) Attach the 2.5-inch drive ID label on the center rack.
 - b) Install the 3.5-inch cage filler in the left rack bezel from inside.
 - c) Install the 5.25-inch optical rack fillers in the right rack. Insert the left side of the fillers into the right rack of the bezel. Rotate the fillers into the opening and press it until it snaps into place.

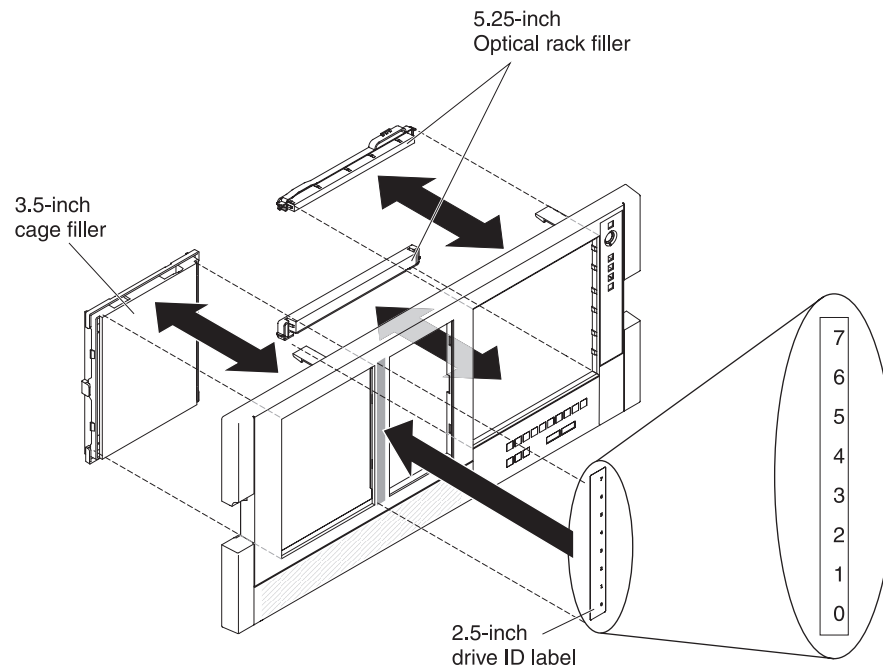


Figure 17. Installing the cage fillers and attaching the drive ID label (models with eight 2.5-inch hard disk drives)

- 3) For models with sixteen 2.5-inch hard disk drives:
 - a) Attach the 2.5-inch drive ID label on the center rack.
 - b) Install the 2.5-inch Right/Left cage filler with attached drive ID label in the left rack from inside.
 - c) Install the 5.25-inch optical rack fillers in the right rack. Insert the left side of the fillers into the right rack of the bezel. Rotate the fillers into the opening and press it until it snaps into place.

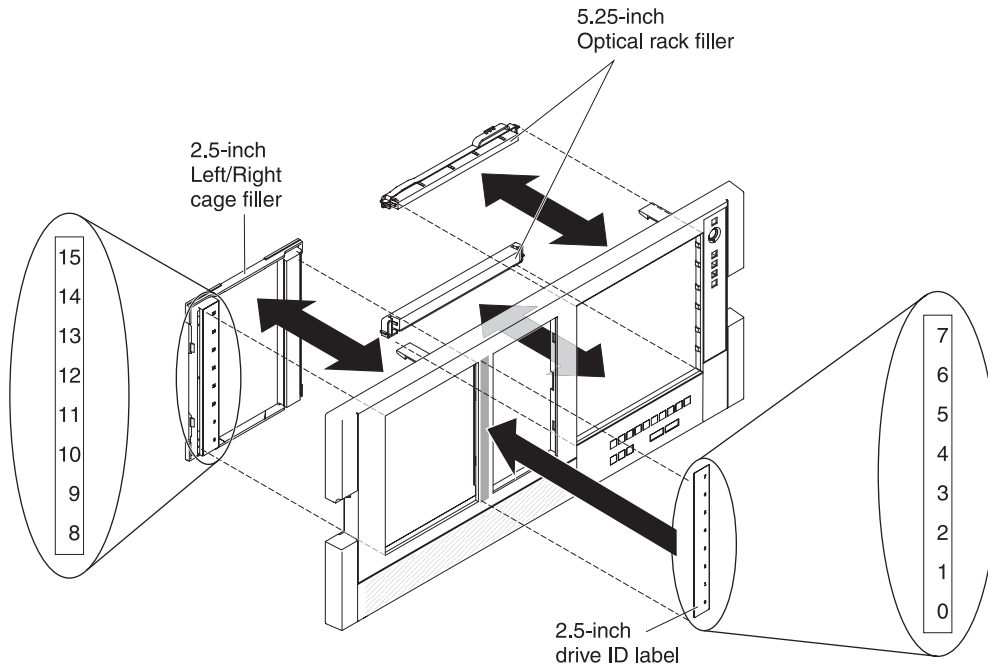


Figure 18. Installing the cage fillers and attaching the drive ID label (models with sixteen hard disk drives)

- b. Install the trim panel for the bottom two 5.25-inch expansion drive bays. Insert the left side of the trim panel into the hard disk drive opening of the bezel. Rotate the trim panel into the opening and press it until the panel snaps into place.

Attention: Do not cover the DVD drive with a trim panel.

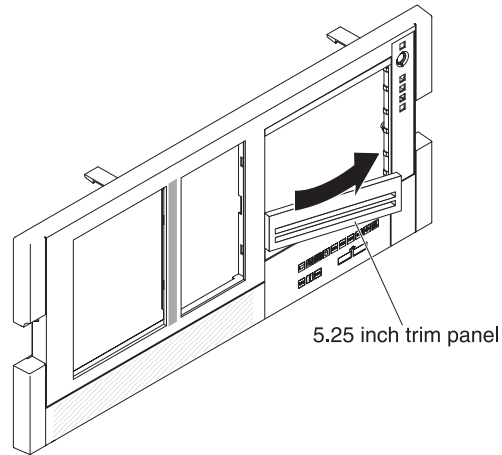


Figure 19. Installing the trim panels

- c. Attach the USB/light path panel label and front operator panel label.

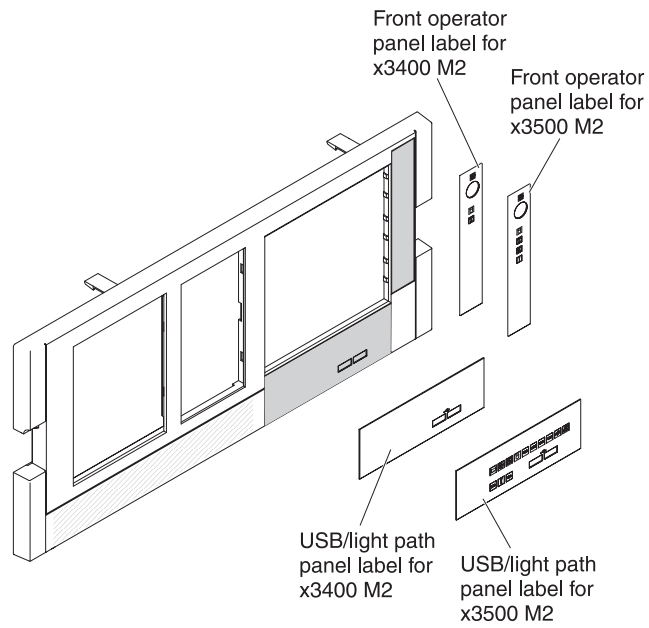


Figure 20. USB/light path panel label and front operator panel label positions

- 1) Select the label for the USB port and light path panel.
- 2) Attach the label to the bezel without covering the USB port and LED signal lights.
- 3) Select the label for the front operator panel.
- 4) Attach the label to the bezel without covering the power-control button and the LED signal lights.

Note: The correct panel label will have enough indicators for all the LED signal lights and not more.

Table 1. USB/light path panel label and front operator panel label

Model	Front operator panel label	USB/light path panel label
x3500 M2	System x3500 M2 	
x3400 M2	System x3400 M2 	

- d. Install the new bezel:
 - 1) Align the tabs on the back of the bezel with the tab openings on the front of the server.

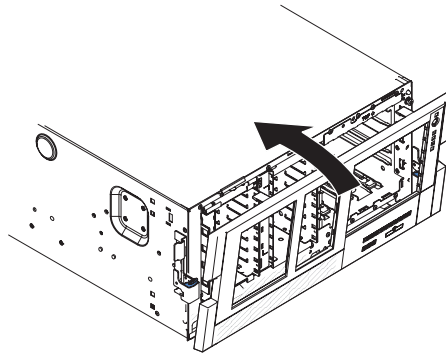


Figure 21. Installing the new bezel

- 2) Rotate the bezel toward the server and press until it snaps into place.
8. Install the four blue handles and four blue rack-support wheels that come with this kit:
 - a. Insert the screws of the rack-support wheels through the blue handles as shown in the illustration.
 - b. Locate the threaded screw holes on the server that are shown in the following illustration.

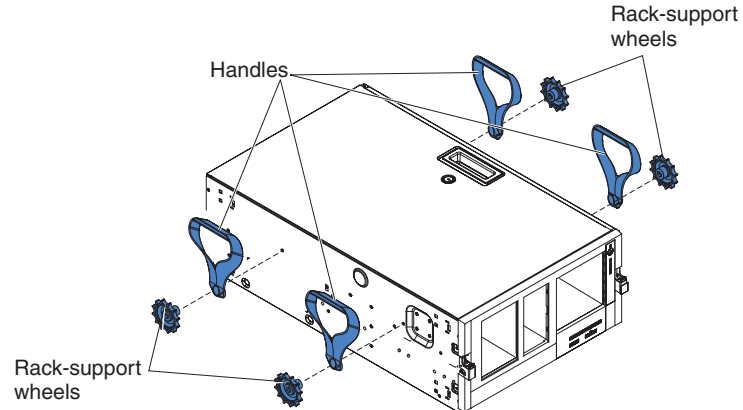


Figure 22. Installing the rack-support wheels

- c. Attach the handles and rack-support wheels to the sides of the server by rotating the wheels in a clockwise direction into the threaded screw holes (these wheels are used to help align the server when you install it in the rack and will be removed later).
9. Install the release-latch bracket assemblies:
 - a. Align the left bracket tab with the side of the server.

Note: The left bracket is marked “L,” and the right bracket is marked “R.”

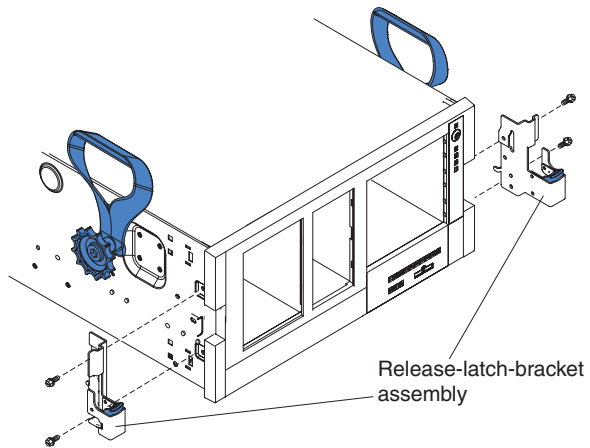


Figure 23. Installing the release-latch bracket assemblies

- b. Secure the bracket with two M3.5 x 7 mm screws that come with this kit.

Note: The self-threading screws might require some effort to install.

- c. Repeat steps 9a and 9b to install the right release-latch bracket assembly.

10. Attach the IBM logo to the right release-latch bracket assembly.

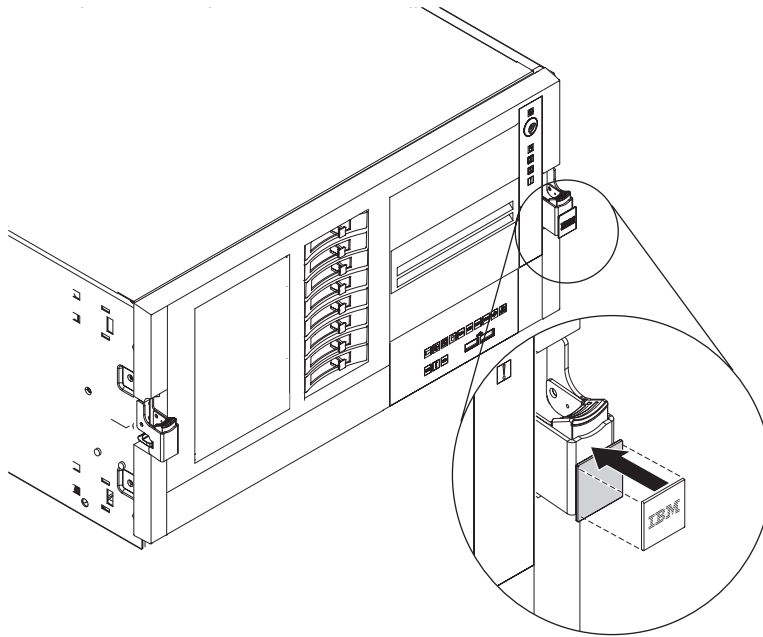


Figure 24. Attaching the IBM logo to the right release-latch bracket assembly

11. Store the parts that you removed during the conversion in a safe place for potential future use.
12. Follow the instructions in Chapter 3, “Rack installation instructions,” on page 25 and use the template that comes with this kit to install the server into a rack cabinet.

Note: To minimize the weight of the server while you lift it into the rack, do not install the drives until you are instructed to do so in “Installing the drives and filler panels” on page 29.

Chapter 3. Rack installation instructions

Review the documentation that comes with your rack cabinet for safety and cabling information. Before you install the server in a rack cabinet, review the following guidelines:

- Make sure that the room air temperature is below 35°C (95°F).
- Do not block any air vents; usually 15 cm (6 in.) of air space in the rear and 5 cm (2 in.) in the front provides proper airflow.
- Plan the device installation starting at the bottom of the rack cabinet.
- Install the heaviest device in the bottom of the rack cabinet.
- Do not extend more than one device out of the rack cabinet at the same time.
- Remove the rack doors and side panels to provide easier access during installation.
- Connect the server to a properly grounded outlet.
- Do not overload the power outlet when you install multiple devices in the rack cabinet.
- The slide rails in this kit come preset to the correct length for installation in an IBM rack cabinet, and they are adjustable for other rack cabinets.
- The slide rails are marked (RIGHT/FRONT and LEFT/FRONT) for correct placement on the rack-cabinet flanges.



This symbol identifies a Caution statement. Always read the information that accompanies this symbol before you proceed with the installation.

Safety Information, Statement 4



Use safe practices when lifting.



≥18 kg (39.7 lb)



≥32 kg (70.5 lb)



≥55 kg (121.2 lb)

Safety Information, Statement 26

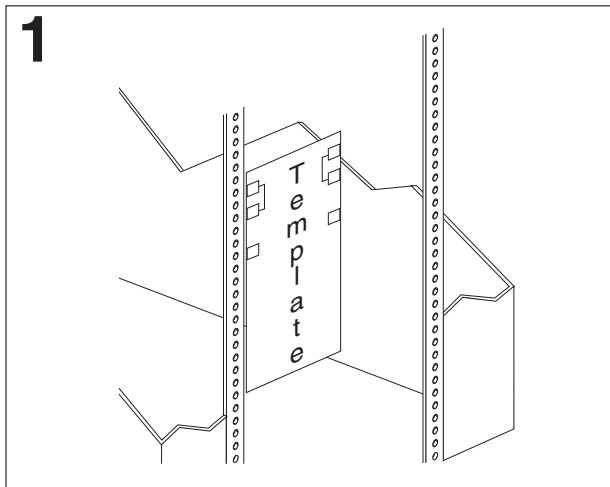


CAUTION:

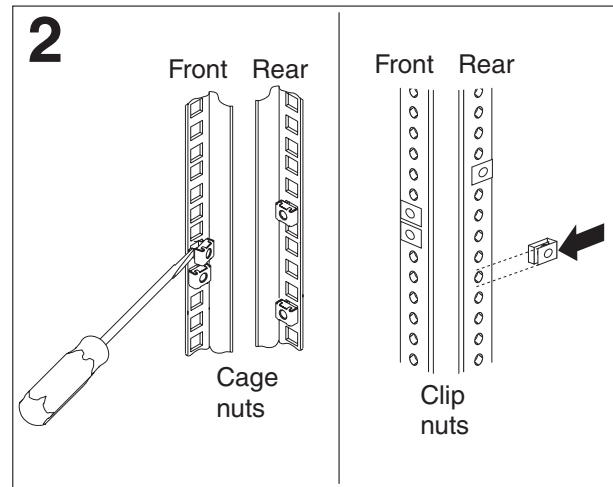
Do not place any object on top of rack-mounted devices.

You will need a flat-blade screwdriver and a Phillips screwdriver during the installation. The following illustration shows the items that you need for installing the server in a rack cabinet. If any items are missing or damaged, contact your place of purchase.

Installing the server in the rack

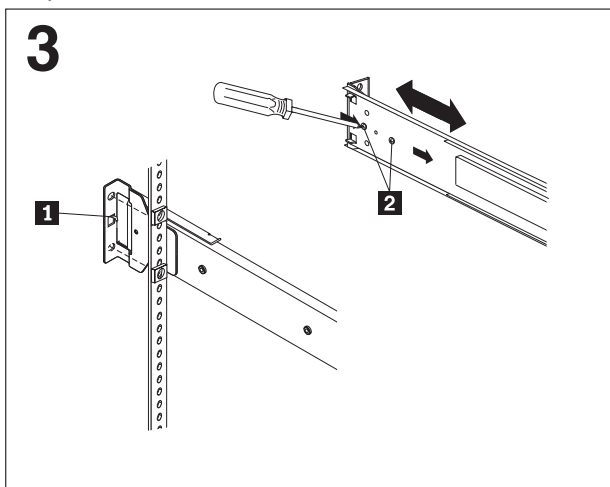


Position the template on the rack so that the edges of the template do not overlap any other devices that are to be installed. Line up and select the holes on the front and rear of the rack in the locations that are indicated by the arrows on the attached template.



Use the cage-nut-insertion tool or a screwdriver to install the cage nuts or the clip nuts on the inside of the mounting rail, as required for your rack, into the selected holes.

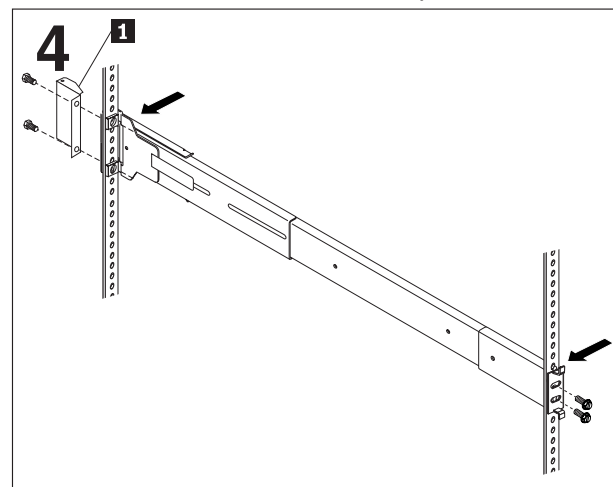
Note: For racks with square holes, use cage nuts. For racks with round holes, use clip nuts.



Use the tab **1** on the rear of the slide rails to align the slide rail to the rear of the rack cabinet. If it is necessary to adjust the length of the slide rail, loosen the screws **2** one-half turn on the rear of the rail.

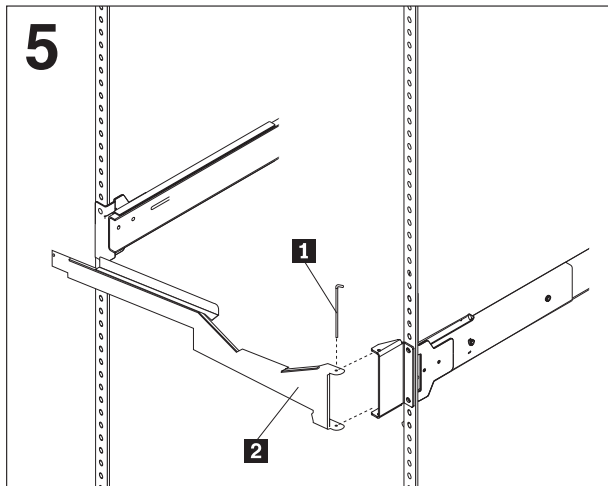
Notes:

1. The slide rail adjustment screws are very short. Do not loosen the screw more than one full turn.
2. The slide rails are labeled for the left and right.

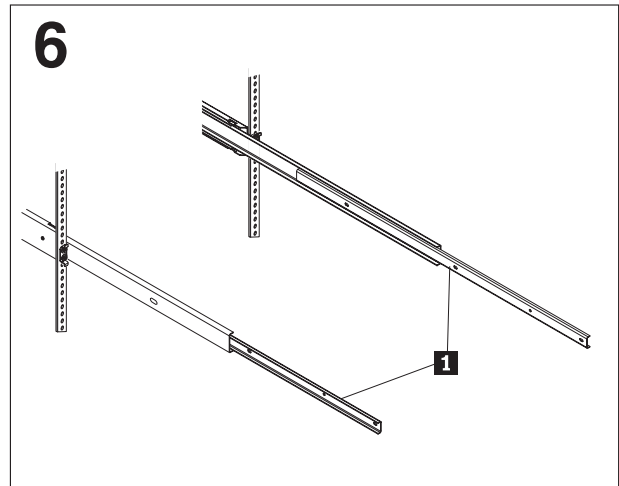


Use two M6 screws to attach the slide rail to the front of the rack cabinet (the left front of the rack cabinet is shown in this step); then, use two M6 screws to attach the slide rail and hinge bracket **1** on the right rear of the rack cabinet.

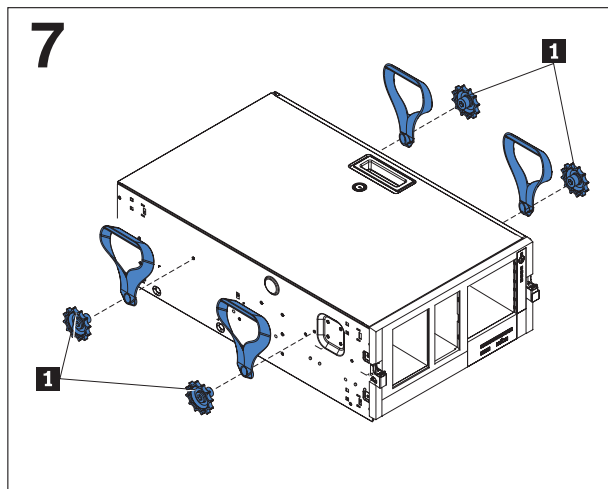
If you loosened the screws to adjust the length of the rail, tighten them now; then, repeat steps 3 and 4 for the other slide rail without a hinge bracket.



Use the hinge pin **1** to attach the cable-management arm **2** to the hinge bracket.

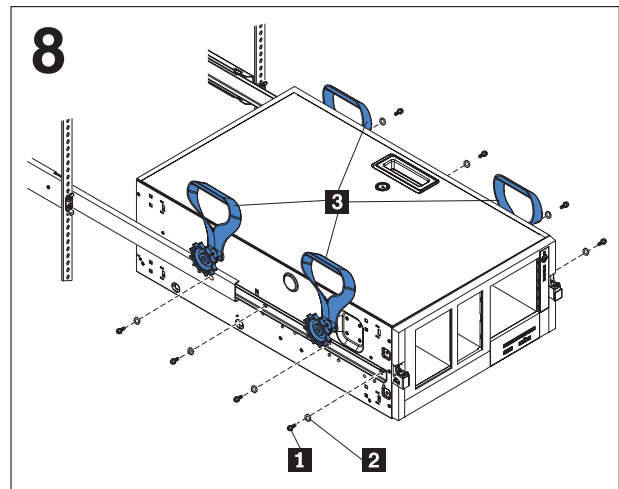


Fully extend the slide rails **1** out of the rack.



If you have not installed the four blue handles and four blue rack-support wheels that come with this kit, do it now.

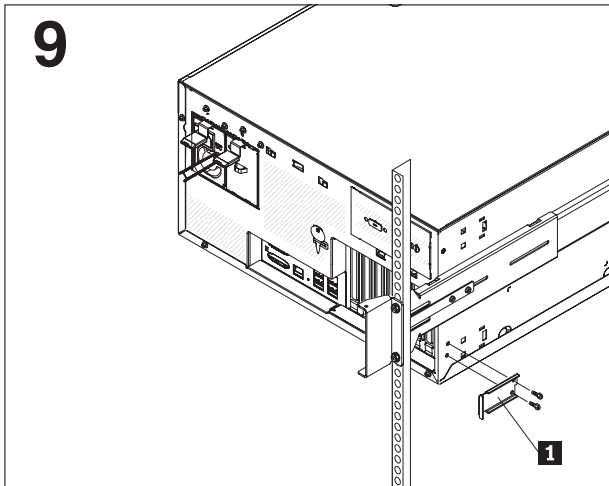
The blue rack-support wheels **1** are used to help align the server as you install it in the rack. You will be instructed to remove them and the blue handles later.



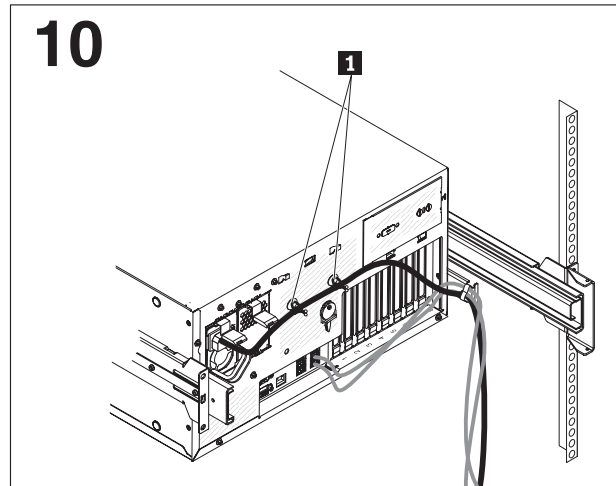
Attention: To avoid injury, do not place your fingers around the blue rack-support wheels when you lower the server onto the rails.

Using the blue handles, lift the server above the rails; then, rest the rack-support wheels on the slide rails. Lower the front of the server onto the slide rails.

Place the M4 lockwashers **2** on the M4 screws **1**; then, use the M4 screws and lockwashers to secure the server to the rails. Unscrew the rack-support wheels and handles **3** and store them for potential future use.

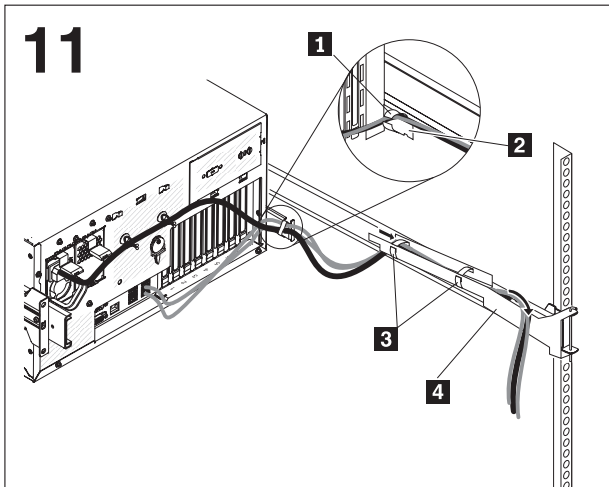


Use two M3.5 screws to attach the cable-retainer bracket **1** that comes in the kit to the left rear of the server chassis.



Attach the power cables as needed to the power supplies; then, rotate them through the strain reliefs **1**.

Attach the keyboard, mouse, and monitor cables (if required) and any other required cables to the server. Grasp the cables and bundle them together, allowing approximately 2 inches of slack, and secure the cables together as shown in the illustration, using a cable strap.



Use another cable strap **1** to attach keyboard, mouse, and monitor cables (if required) and any other required cables to the cable-retainer bracket **2** on the left rear of the chassis.

Use cable straps **3** to secure cables to the cable-management arm **4**.

See the server documentation to complete the installation.

Store these instructions with the documentation that comes with the server.

To remove the server from the rack, reverse these instructions.

Installing the drives and filler panels

This section provides the information for installing the 3.5-inch or 2.5-inch hard disk drives and single bay filler panels in the rack-mounted server. Complete the following steps:

1. Reinstall hard disk drives that you removed in step 3 on page 5.
2. Install the filler panels that come with the conversion kit into all empty hard disk drive bays.

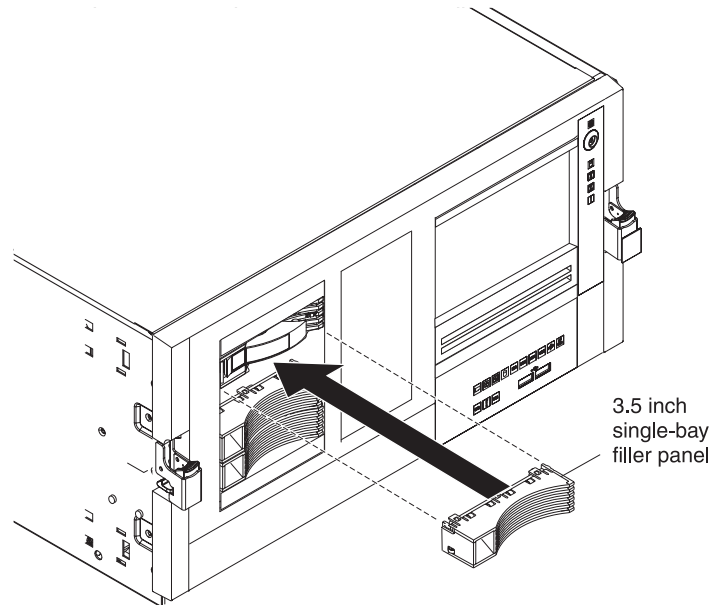


Figure 25. For models with 3.5-inch hard disk drives

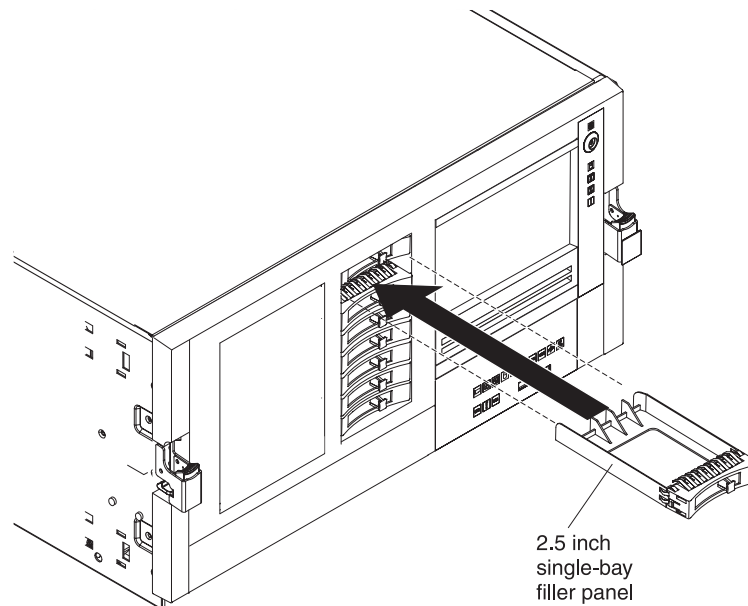


Figure 26. For models with eight 2.5-inch hard disk drives

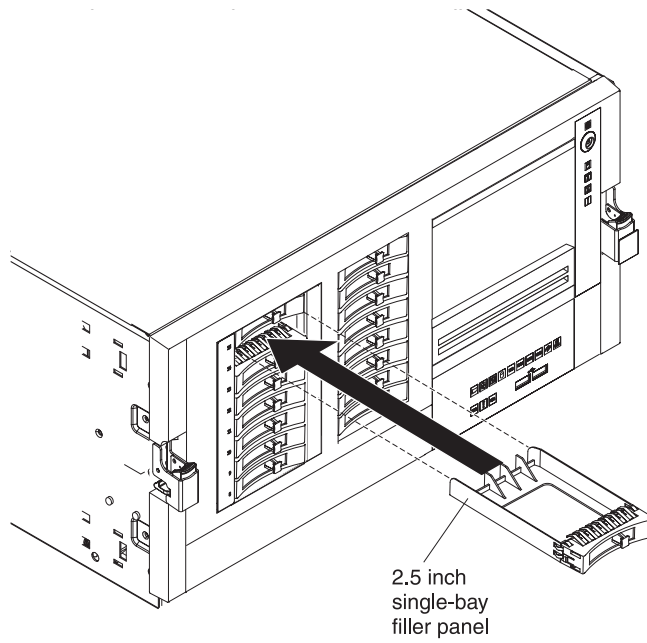


Figure 27. For models with sixteen 2.5-inch hard disk drives

Appendix A. Getting help and technical assistance

If you need help, service, or technical assistance or just want more information about IBM products, you will find a wide variety of sources available from IBM to assist you. This section contains information about where to go for additional information about IBM and IBM products, what to do if you experience a problem with your system, and whom to call for service, if it is necessary.

Before you call

Before you call, make sure that you have taken these steps to try to solve the problem yourself:

- Check all cables to make sure that they are connected.
- Check the power switches to make sure that the system and any optional devices are turned on.
- Use the troubleshooting information in your system documentation, and use the diagnostic tools that come with your system. Information about diagnostic tools is in the *Problem Determination and Service Guide* on the IBM Documentation CD that comes with your system.
- Go to the IBM support Web site at <http://www.ibm.com/systems/support/> to check for technical information, hints, tips, and new device drivers or to submit a request for information.

You can solve many problems without outside assistance by following the troubleshooting procedures that IBM provides in the online help or in the documentation that is provided with your IBM product. The documentation that comes with IBM systems also describes the diagnostic tests that you can perform. Most systems, operating systems, and programs come with documentation that contains troubleshooting procedures and explanations of error messages and error codes. If you suspect a software problem, see the documentation for the operating system or program.

Using the documentation

Information about your IBM system and preinstalled software, if any, or optional device is available in the documentation that comes with the product. That documentation can include printed documents, online documents, readme files, and help files. See the troubleshooting information in your system documentation for instructions for using the diagnostic programs. The troubleshooting information or the diagnostic programs might tell you that you need additional or updated device drivers or other software. IBM maintains pages on the World Wide Web where you can get the latest technical information and download device drivers and updates. To access these pages, go to <http://www.ibm.com/systems/support/> and follow the instructions. Also, some documents are available through the IBM Publications Center at <http://www.ibm.com/shop/publications/order/>.

Getting help and information from the World Wide Web

On the World Wide Web, the IBM Web site has up-to-date information about IBM systems, optional devices, services, and support. The address for IBM System x[®] and xSeries[®] information is <http://www.ibm.com/systems/x/>. The address for IBM BladeCenter[®] information is <http://www.ibm.com/systems/bladecenter/>. The address for IBM IntelliStation[®] information is <http://www.ibm.com/intellistation/>.

You can find service information for IBM systems and optional devices at <http://www.ibm.com/systems/support/>.

Software service and support

Through IBM Support Line, you can get telephone assistance, for a fee, with usage, configuration, and software problems with System x and xSeries servers, BladeCenter products, IntelliStation workstations, and appliances. For information about which products are supported by Support Line in your country or region, see <http://www.ibm.com/services/sl/products/>.

For more information about Support Line and other IBM services, see <http://www.ibm.com/services/>, or see <http://www.ibm.com/planetwide/> for support telephone numbers. In the U.S. and Canada, call 1-800-IBM-SERV (1-800-426-7378).

Hardware service and support

You can receive hardware service through your IBM reseller or IBM Services. To locate a reseller authorized by IBM to provide warranty service, go to <http://www.ibm.com/partnerworld/> and click **Find a Business Partner** on the right side of the page. For IBM support telephone numbers, see <http://www.ibm.com/planetwide/>. In the U.S. and Canada, call 1-800-IBM-SERV (1-800-426-7378).

In the U.S. and Canada, hardware service and support is available 24 hours a day, 7 days a week. In the U.K., these services are available Monday through Friday, from 9 a.m. to 6 p.m.

IBM Taiwan product service

台灣 IBM 產品服務聯絡方式：
台灣國際商業機器股份有限公司
台北市松仁路 7 號 3 樓
電話：0800-016-888

IBM Taiwan product service contact information:

IBM Taiwan Corporation
3F, No 7, Song Ren Rd.
Taipei, Taiwan
Telephone: 0800-016-888

Appendix B. Warranty Information

IBM Warranty Information

Machine Type(s)	Country of Purchase	Warranty Period (Years)	Type of Warranty Service*	Service Level*
IBM 5Ux26D Tower-to-Rack Conversion Kit	Worldwide	1	1	1

Types of Warranty Service: 1) Customer Replaceable Unit (CRU); 5) CRU and On-site; 6) CRU and Courier or Depot; 7) CRU and Customer Carry-in or Mail-in; 8) CRU and Machine Exchange.

Service Levels: 1) Next Business Day (NBD), 9x5; 2) Same Business Day (SBD), 9x5; 3) Same Day, 24x7.

* See "Type of Warranty Service" and "Service Levels" in the *IBM Statement of Limited Warranty* for explanations of warranty service types and service levels.

You can obtain a copy of the *IBM Statement of Limited Warranty* for this product from the IBM Web site at http://www.ibm.com/servers/support/machine_warranties/. The Statement of Limited Warranty is available on this site in 17 languages. The table above provides the product-specific information for "Part 3 - Warranty Information" of the Statement of Limited Warranty.

You can also obtain a copy of the Statement of Limited Warranty from your IBM Sales Representative or your IBM reseller. For IBM in Canada or the United States, call 1-800-IBM-SERV (or 1-800-426-7378). For IBM in the European Union (EU), Asia Pacific, and Latin America countries, contact IBM in that country or visit the IBM Directory of Worldwide Contacts at the following IBM Internet website: <http://www.ibm.com/planetwide/>.

Informace o záruce IBM

Typ stroje (strojů)	Země nákupu	Záruční doba (roky)	Typ záručního servisu *	Servisní úroveň *
IBM 5Ux26D Tower-to-Rack Conversion Kit	Celosvětově	1	1	1

Typy záručního servisu: 1) CRU (Customer Replaceable Unit); 5) CRU and On-site; 6) CRU and Courier or Depot; 7) CRU and Customer Carry-in or Mail-in; 8) CRU and Machine Exchange.

Servisní úrovně: 1) Další pracovní den (Next Business Day, NBD), 9x5; 2) Stejný pracovní den (Same Business Day, SBD), 9x5; 3) Stejný den (Same Day), 24x7.

* Vysvětlení termínů “Typ záručního servisu” a “Servisní úroveň” najdete v dokumentu *Prohlášení o omezené záruce*.

Dokument *Prohlášení o omezené záruce* pro tento produkt získáte na webové stránce IBM http://www.ibm.com/servers/support/machine_warranties/. Dokument *Prohlášení o omezené záruce* je k dispozici v 17 jazykových verzích. Ve výše uvedené tabulce najdete informace specifické pro daný produkt, které se vztahují k části “Část 3 - Informace o záruce” v dokumentu *Prohlášení o omezené záruce*.

Dokument *Prohlášení o omezené záruce* můžete získat také od vašeho zástupce IBM nebo prodejce IBM. V Kanadě nebo ve Spojených státech volejte 1-800-IBM-SERV (nebo 1-800-426-7378). V zemích Evropské unie (EU), v zemích Asie a Pacifické oblasti a v zemích Latinské Ameriky kontaktujte IBM v dané zemi nebo navštivte adresář IBM celosvětových kontaktů na těchto webových stránkách IBM: <http://www.ibm.com/planetwide/>.

IBM 保修信息

机器类型	购买地所在国家或地区	保修期 (年)	保修服务类型*	服务级别*
IBM 5Ux26D Tower-to-Rack Conversion Kit	全球	1	1	1

保修服务类型: 1) 客户可更换部件 (CRU); 5) CRU 和现场服务; 6) CRU 和专人取送或仓库维修; 7) CRU 和客户送修或邮寄送修; 8) CRU 和机器更换服务。

服务级别: 1) 下一个工作日 (NBD), 9x5; 2) 同一个工作日 (SBD), 9x5; 3) 当天, 24x7。

* 请参阅 *IBM 有限保证声明* 中的 “保修服务类型” 和 “服务级别”, 获取保修服务类型和服务级别的说明。

您还可以从以下 IBM Web 站点获得 *IBM 有限保证声明* 的副本:

http://www.ibm.com/servers/support/machine_warranties/。该站点提供 17 种语言的有限保证声明。上表提供该有限保证声明中 “第三部分 — 保修信息” 的特定于产品的信息。

您还可以从 IBM 销售代表或 IBM 经销商处获得有限保证声明的副本。要联系加拿大或美国的 IBM 分支机构, 请拨打电话 1-800-IBM-SERV (或 1-800-426-7378)。

要联系欧盟 (EU)、亚太地区以及拉丁美洲国家或地区的 IBM 分支机构, 请与所在国家或地区的 IBM 办事处联系或访问以下 IBM 网站: <http://www.ibm.com/planetwide/>。

IBM 保證資訊

機型	採購國家或地區	保固期間 (年)	保固服務類型*	服務等級*
IBM 5Ux26D Tower-to-Rack Conversion Kit	全球	1	1	1

保固服務類型：1) 客戶可自行更換組件 (CRU)；5) CRU 及站上；6) CRU 及快遞或維修站；7) CRU 及客戶親自送件或郵寄送件；8) CRU 及機器交換。服務等級：1) 營業日隔天 (NBD)，9x5；2) 營業日當天 (SBD)，9x5；3) 當天，全年 24 小時無休。

* 請參閱「IBM 有限保證聲明」中的「保固服務類型」及「服務等級」，以取得保固服務類型及服務等級的說明。

您可以從 IBM 網站取得本產品的「IBM 有限保證聲明」：

http://www.ibm.com/servers/support/machine_warranties/。

此網站提供 17 種語言之「有限保證聲明」。上表提供「有限保證聲明」中「第三部分 - 保證資訊」的產品特定資訊。

您也可以向您的「IBM 業務代表」或 IBM 轉銷商索取「有限保證聲明」。若為加拿大或美國之 IBM，請電洽：1-800-IBM-SERV（或 1-800-426-7378）。如需歐盟 (EU)、亞太地區及拉丁美洲各國之 IBM 資訊，請聯絡該國家或地區之 IBM，或造訪 IBM 網站上的 IBM Directory of Worldwide Contacts：<http://www.ibm.com/planetwide/>。

Informations relatives à la garantie IBM

Type(s) de machine	Pays d'acquisition	Période de garantie (en années)	Type de service prévu par la garantie*	Niveau de service*
IBM 5Ux26D Tower-to-Rack Conversion Kit	Monde	1	1	1

Types de garantie : 1) Unité remplaçable par l'utilisateur (CRU) ; 5) CRU et Service sur site ; 6) CRU et Service de collecte ou de dépôt ; 7) CRU et Service de livraison ou d'expédition par le client ; 8) CRU et Service de remplacement de Machine.

Niveaux de service : 1) Jour ouvré suivant (NBD), 9x5 ; 2) Même jour ouvré (SBD), 9x5 ; 3) Même jour, 24x7.

* Pour plus d'informations sur les types de garantie et les niveaux de service, voir "Type de garantie" et "Niveaux de service" dans la Déclaration de Garantie IBM.

Pour vous procurer un exemplaire de la Déclaration de Garantie IBM pour ce produit, rendez-vous sur le site Web d'IBM à l'adresse : http://www.ibm.com/servers/support/machine_warranties/.

La Déclaration de Garantie est disponible sur ce site dans 17 langues. Le tableau ci-dessus fournit les informations spécifiques au produit pour le "Chapitre 3 : Informations relatives à la Garantie" de la Déclaration de Garantie.

Pour vous procurer un exemplaire de la Déclaration de Garantie, contactez votre ingénieur commercial IBM ou votre revendeur IBM. Au Canada ou aux États-Unis, appelez le 1-800-IBM-SERV (ou 1-800-426-7378). Dans les pays de l'Union européenne (UE), de la zone Asie-Pacifique et d'Amérique latine, prenez contact avec IBM dans le pays où vous résidez ou visitez le site d'IBM Directory of Worldwide Contacts, à l'adresse suivante : <http://www.ibm.com/planetwide/fr/>.

Informationen zum Herstellerservice von IBM

Maschinen- typ(en)	Land des Erwerbs	Zeitraum des Herstellerservice (Jahre)	Art des Herstellerservice*	Service- Level*
IBM 5Ux26D Tower-to-Rack Conversion Kit	Weltweit	1	1	1

Art des Herstellerservice: 1) CRU-Service; 5) CRU-Service und Service vor Ort; 6) CRU-Service und Kurier- oder Aufbewahrungsservice; 7) CRU-Service und Anlieferung durch den Kunden oder Versand; 8) CRU-Service und Maschinenaustauschservice.

Service-Levels: 1) Am nächsten Arbeitstag (NBD), 9x5; 2) Am selben Arbeitstag (SBD), 9x5; 3) Am selben Tag, 24x7.

* Unter "Art des Herstellerservice" und "Service-Levels" im Dokument "Freiwilliger Herstellerservice" werden die verschiedenen Arten des Herstellerservice und die Service-Levels näher erläutert.

Ein Exemplar des Dokuments "Freiwilliger Herstellerservice" für dieses Produkt kann über die IBM Website http://www.ibm.com/servers/support/machine_warranties/ heruntergeladen werden. Das Dokument steht auf dieser Site in 17 Sprachen zur Verfügung. Die obige Tabelle enthält die produkt-spezifischen Informationen für "Teil 3 - Informationen zum Herstellerservice".

Das Dokument "Freiwilliger Herstellerservice" ist auch beim zuständigen IBM Vertriebsbeauftragten oder IBM Reseller erhältlich. In Kanada und den Vereinigten Staaten von Amerika lautet die Telefonnummer des IBM Service wie folgt: 1-800-IBM-SERV (oder 1-800-426-7378). In den Ländern der Europäischen Union (EU), des asiatisch-pazifischen Raums und Lateinamerikas sollte sich der Kunde direkt an IBM vor Ort wenden oder die Kontaktinformationen im IBM Directory of Worldwide Contacts auf der folgenden IBM Internet-Website nachschlagen: <http://www.ibm.com/planetwide/>.

IBM - Πληροφορίες σχετικά με την Εγγύηση

Τύπος(-οι) Μηχανής	Χώρα Αγοράς	Περίοδος Εγγύησης (Ετη)	Είδος Υπηρεσιών Εγγύησης*	Επίπεδο των Υπηρεσιών*
IBM 5Ux26D Tower-to-Rack Conversion Kit	Παγκοσμίως	1	1	1

Είδη Υπηρεσιών Εγγύησης: 1) Υπηρεσίες Μονάδων Αντικαθιστώμενων από τον Πελάτη ("μονάδες CRU"), 5) Υπηρεσίες CRU και Επί Τόπου Υπηρεσίες, 6) Υπηρεσίες CRU και Υπηρεσίες Courier ή Depot, 7) Υπηρεσίες CRU και Υπηρεσίες με Μεταφορά ή Αποστολή από τον Πελάτη, 8) Υπηρεσίες CRU και Ανταλλαγής Μηχανής.

Επίπεδα των Υπηρεσιών: 1) Επόμενη Εργάσιμη Ημέρα (Next Business Day - NBD), 9x5, 2) Ίδια Εργάσιμη Ημέρα (Same Business Day - SBD), 9x5, 3) Ίδια Ημέρα, 24x7.

* Ανατρέξτε στις ενότητες "Είδη Υπηρεσιών Εγγύησης" και "Επίπεδα των Υπηρεσιών" στη Δήλωση Περιορισμένης Εγγύησης της IBM για μια επεξήγηση των διαφόρων ειδών υπηρεσιών εγγύησης και επιπέδων υπηρεσιών.

Μπορείτε να αποκτήσετε ένα αντίγραφο της Δήλωσης Περιορισμένης Εγγύησης της IBM για αυτό το προϊόν από την ακόλουθη ιστοσελίδα της IBM στο Internet:

http://www.ibm.com/servers/support/machine_warranties/.

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Informazioni di Garanzia di IBM

Tipi di macchine	Paese di acquisto	Periodo di garanzia (anni)	Tipo di garanzia Servizio*	Livello di servizio*
IBM 5Ux26D Tower-to-Rack Conversion Kit	Worldwide	1	1	1

Tipi di garanzia di servizio: 1) Customer Replaceable Unit (CRU); 5) CRU e On-site; 6) CRU e Courier o Depot; 7) CRU e Customer Carry-in o Mail-in; 8) CRU e Machine Exchange.

Livelli di servizio: 1) Next Business Day (NBD), 9x5; 2) Same Business Day (SBD), 9x5; 3) Same Day, 24x7.

* Fare riferimento a “Tipo di servizio di garanzia” e a “Livelli di servizio” nell’IBM *Statement of Limited Warranty* per informazioni sui tipi di servizi di garanzia e sui livelli di servizio.

È possibile ottenere una copia dell’IBM *Statement of Limited Warranty* per questo prodotto dal sito Web IBM all’indirizzo http://www.ibm.com/servers/support/machine_warranties/. La Statement of Limited Warranty è disponibile su questo sito in 17 lingue. La tabella precedente fornisce le informazioni specifiche del prodotto per “Parte 3 - Informazioni sulla garanzia” della Statement of Limited Warranty.

È inoltre possibile ottenere una copia della Statement of Limited Warranty dal rappresentante IBM o dal rivenditore IBM. Per IBM in Canada o negli Stati Uniti, contattare 1-800-IBM-SERV (o 1-800-426-7378). Per IBM in Europa (EU), Asia Pacifico e America latina, contattare IBM in quel paese oppure visitare la IBM Directory of Worldwide Contacts sul sito Web IBM all’indirizzo: <http://www.ibm.com/planetwide/>.

IBM 保証情報

マシン・タイプ	購入した国	保証期間 (年)	保証サービスの種類	サービス・レベル*
IBM 5Ux26D Tower-to-Rack Conversion Kit	世界共通	1	1	1

保証サービスの種類: 1) カスタマー交換可能ユニット (CRU); 5) CRU と オンサイト・サービス; 6) CRU とクーリエ・サービス; 7) CRU と持ち込みまたは郵送サービス; 8) CRU と機械交換サービス
サービス・レベル: 1) Next Business Day (NBD)、9 時間×週 5 日; 2) Same Business Day (SBD)、9 時間×週 5 日; 3) Same Day、24 時間×週 7 日

* 保証サービスの種類とサービス・レベルの説明については、「IBM 保証の内容と制限」の「保証サービスの種類」と「保証サービスのサービス・レベル」を参照してください。

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시스템 유형	구매 국가	보증 기간(년)	보증 서비스 유형*	서비스 레벨*
IBM 5Ux26D Tower-to-Rack Conversion Kit	전세계	1	1	1

보증 서비스 유형: 1) 고객 교체 가능 장치(CRU) 5) CRU 및 현장 방문 6) CRU 및 특급 배송 또는 디포(Depot) 7) CRU 및 고객 직접 운송 또는 택배 접수 8) CRU 및 시스템 교체
서비스 레벨: 1) 익영업일(NBD), 9x5 2) 당일 영업일(SBD), 9x5 3) 당일, 24x7

* 보증 서비스 유형 및 서비스 레벨에 대한 자세한 내용은 IBM 제한 보증서의 "보증 서비스 유형"의 "서비스 레벨"을 참조하십시오.

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IBM garantijos informacija

Įrenginio tipas (-ai)	Pirkimo šalis	Garantijos laikotarpis (metais)	Garantinės priežiūros paslaugos tipas*	Paslaugos lygis*
IBM 5Ux26D Tower-to-Rack Conversion Kit	Pasaulinis	1	1	1

Garantinės priežiūros paslaugų tipai: 1) Kliento keičiamos dalys (CRU); 5) CRU ir priežiūros paslauga, teikiama vietoje; 6) CRU ir kurjerio arba saugojimo paslauga; 7) CRU ir kliento atgabavimo ar atsuntimo paslauga; 8) CRU ir Įrenginio keitimo paslauga.

Paslaugos lygiai: 1) Kitą darbo dieną (NBD), 9x5; 2) Tą pačią darbo dieną (SBD), 9x5; 3) Tą pačią dieną, 24x7.

* Paaiškinimus apie garantinės priežiūros paslaugos tipus ir paslaugų lygius žr. IBM ribotos garantijos pareiškimo skyriuose „Garantinės priežiūros paslaugos tipas“ ir „Paslaugos lygiai“.

IBM ribotos garantijos pareiškimo kopiją galite įsigyti IBM žiniatinklio svetainėje http://www.ibm.com/servers/support/machine_warranties/. Ribotos garantijos pareiškimas svetainėje pateikiamas 17 kalbų. Aukščiau esančioje lentelėje pateikiama Ribotos garantijos pareiškimo skyriaus „3 dalis – garantijos informacija“ specifinė produkto informacija.

Ribotos garantijos pareiškimo kopiją taip pat galite įsigyti iš IBM pardavimo atstovo arba IBM perpardavėjo. Kanadoje arba Jungtinėse Amerikos Valstijose IBM skambinkite 1-800-IBM-SERV (arba 1-800-426-7378). Europos Sąjungos (ES), Azijos ir Ramiojo vandenyno regiono bei Lotynų Amerikos šalyse susisiekite su tos šalies IBM padaliniu arba apsilankykite IBM pasaulio kontaktų kataloge, kuris yra šioje IBM interneto svetainėje: <http://www.ibm.com/planetwide/>.

Informacje gwarancyjne IBM

Typ Maszyny	Kraj zakupu	Okres gwarancyjny (w latach)	Typ serwisu gwarancyjnego*	Poziom usług*
IBM 5Ux26D Tower-to-Rack Conversion Kit	Cały świat	1	1	1

Typy serwisu gwarancyjnego: 1) Części wymieniane przez Klienta (Customer Replaceable Units, zwane dalej "Częściami CRU"); 5) Części CRU wymieniane na miejscu u Klienta; 6) Części CRU i serwis wysyłkowy lub kurierski; 7) Części CRU i serwis z wysyłką lub transportem przez Klienta; 8) Części CRU i wymiana maszyny.
Poziomy świadczenia serwisu: 1) następny dzień roboczy, 9x5; 2) ten sam dzień roboczy, 9x5; 3) ten sam dzień, 24x7.

* Typy serwisu gwarancyjnego oraz poziomy usług zostały wyjaśnione w paragrafach:

"Typ serwisu gwarancyjnego" i "Poziomy usług" Warunków Ograniczonej Gwarancji IBM.

Egzemplarz Warunków Ograniczonej Gwarancji dla tego produktu można pobrać z serwisu WWW IBM, znajdującego się pod adresem http://www.ibm.com/servers/support/machine_warranties/. Warunki Ograniczonej Gwarancji są tam dostępne w 17 językach. Powyższa tabela zawiera informacje specyficzne dla produktu, uzupełniające "Część 3 - Informacje gwarancyjne" Warunków Ograniczonej Gwarancji.

Egzemplarz Warunków Ograniczonej Gwarancji można otrzymać od przedstawiciela handlowego IBM lub reselera IBM. W Kanadzie i w Stanach Zjednoczonych należy zadzwonić pod numer 1-800-IBM-SERV (1-800-426-7378). W krajach Unii Europejskiej, Azji Wschodniej i Ameryki Łacińskiej należy skontaktować się z oddziałem IBM w danym kraju lub skorzystać z wykazu danych kontaktowych IBM na świecie (IBM Directory of Worldwide Contacts) pod adresem: <http://www.ibm.com/planetwide/>.

Informações sobre a Garantia da IBM

Tipo(s) de Máquina	País de Aquisição	Período de Garantia (Anos)	Tipo de Serviço de Garantia*	Nível de Serviço*
IBM 5Ux26D Tower-to-Rack Conversion Kit	Todo o mundo	1	1	1

Tipos de Serviço de Garantia: 1) Unidade Substituível pelo Cliente (CRU); 5) CRU e no Local (On-site); 6) CRU e Correio Expresso ou Recolha; 7) CRU e Entrega ou Envio para a Entidade Reparadora; 8) CRU e Troca de Máquinas.

Níveis de Serviço: 1) No dia útil seguinte (DUS), 9x5; 2) No mesmo dia útil (MDU), 9x5; 3) No mesmo dia, 24x7.

* Para obter uma explicação dos tipos de serviço de garantia e dos níveis de serviço, consulte "Tipo de Serviço de Garantia" e "Níveis de Serviço" na *Declaração de Garantia Limitada IBM*.

Poderá obter uma cópia da *Declaração de Garantia Limitada IBM* referente a este produto no sítio da Web da IBM em http://www.ibm.com/servers/support/machine_warranties/. A Declaração de Garantia Limitada está disponível neste sítio em 17 idiomas. A tabela anterior fornece as informações específicas sobre o produto para a "Parte 3 - Informações Sobre a Garantia" da Declaração de Garantia Limitada.

Poderá igualmente obter uma cópia da Declaração de Garantia Limitada junto do seu Representante de Vendas ou revendedor IBM. Para contactar a IBM no Canadá ou nos E.U.A., ligue 1-800-IBM-SERV (ou 1-800-426-7378). Para contactar a IBM na União Europeia (UE), Ásia e Pacífico, e países da América Latina, contacte a IBM do respectivo país ou visite o Directório IBM de Contactos Mundiais no seguinte sítio da Web da IBM: <http://www.ibm.com/planetwide/>.

Гарантийная информация IBM

Тип Машины	Страна приобретения	Гарантийный срок (в годах)	Тип гарантийного обслуживания*	Уровень обслуживания*
IBM 5Ux26D Tower-to-Rack Conversion Kit	Все страны	1	1	1

Типы Гарантийного Обслуживания: 1) Блоки, Заменяемые Заказчиком (“CRU”); 5) CRU и Обслуживание на Месте; 6) CRU и Курьерские или Складские Услуги; 7) CRU и Обслуживание при Доставке или Пересылке по Почте Силами Заказчика; 8) CRU и Обслуживание с Заменой Машины.

Уровни обслуживания: 1) На следующий рабочий день (Next Business Day - NBD), 9x5; 2) В тот же рабочий день (Same Business Day - SBD), 9x5; 3) В тот же день (Same Day - SD), 24x7.

* Описание типов и уровней гарантийного обслуживания приведено в разделах “Типы Гарантийного Обслуживания” и “Уровни обслуживания” *Положения IBM об Ограниченной Гарантии*.

Вы можете получить копию *Положения IBM об Ограниченной Гарантии* для данного продукта с Web-сайта http://www.ibm.com/servers/support/machine_warranties/. На этом сайте приведены версии Положения IBM об Ограниченной Гарантии на 17 языках. В вышеприведенной таблице содержится информация раздела “Часть 3 - Информация о Гарантии” Положения об Ограниченной Гарантии, относящаяся к этому продукту.

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IBM-ove garancijske informacije

Tipi računalnikov	Država nabave	Garancijski rok (v letih)	Vrsta garancijskega servisa*	Raven servisa*
IBM 5Ux26D Tower-to-Rack Conversion Kit	Po vsem svetu	1	1	1

Vrste garancijskega servisa: 1) Enota, ki jo zamenja stranka (CRU); 5) CRU in pri stranki; 6) CRU in kurirska služba ali skladišče; 7) CRU in strankina dostava ali pošiljanje po pošti; 8) CRU in zamenjava računalnika.

Ravni servisa: 1) Naslednji poslovni dan (NBD), 9x5; 2) Isti poslovni dan (SBD), 9x5; 3) Isti dan 24x7.

* Razlage vrst garancijskega servisa in ravni servisa boste našli v razdelkih "Vrsta garancijskega servisa" in "Ravni servisa" v IBM-ovi izjavi o omejeni garanciji.

Naročnik lahko pridobi kopijo IBM-ove izjave o omejeni garanciji za ta izdelek na IBM-ovem spletnem mestu na naslovu http://www.ibm.com/servers/support/machine_warranties/. Izjava o omejeni garanciji je na tem spletnem mestu na voljo v 17 jezikih. Zgornja tabela podaja informacije, specifične za izdelek, za "3. del - Garancijske informacije" iz izjave o omejeni garanciji.

Naročnik lahko pridobi kopijo izjave o omejeni garanciji tudi pri svojem IBM-ovem prodajnem predstavniku ali IBM-ovem prodajalcu. Za IBM v Kanadi ali v Združenih državah Amerike naj stranke pokličejo na številko 1-800-IBM-SERV (ali 1-800-426-7378). Za IBM v Evropski uniji (EU), v pacifiškem delu Azije in v državah Latinske Amerike naj se stranke obrnejo na IBM v tej državi ali pa naj obiščejo IBM-ov imenik svetovnih stikov na naslednjem IBM-ovem spletnem mestu: <http://www.ibm.com/planetwide/>.

Información de garantía de IBM

Tipo(s) de máquina	País de compra	Periodo de garantía (años)	Tipo de servicio de garantía*	Nivel de servicio*
IBM 5Ux26D Tower-to-Rack Conversion Kit	Todo el mundo	1	1	1

Tipos de servicios de garantía: 1) Unidad reemplazable por el cliente (CRU); 5) CRU y servicio in situ; 6) CRU y servicio de mensajero o depósito; 7) CRU y servicios centralizados; 8) CRU e intercambio de máquina.

Niveles de servicio: 1) Siguiendo día laborable (NBD), 9x5; 2) Mismo día laborable (SBD), 9x5; 3) Mismo día, 24x7.

* Consulte "Tipos de servicios de garantía" y "Niveles de servicio" en la *Declaración de garantía limitada de IBM* para consultar las explicaciones de los tipos de servicios de garantía y niveles de servicio.

Puede obtener una copia de la *Declaración de garantía limitada de IBM* de este producto en el sitio web http://www.ibm.com/servers/support/machine_warranties/. La Declaración de garantía limitada está disponible en este sitio en 17 idiomas. La tabla anterior proporciona información específica del producto para la "Parte 3 - Información sobre la garantía" de la Declaración de garantía limitada.

También puede obtener una copia de la Declaración de garantía limitada a través de su representante comercial de IBM o distribuidor de IBM. Para IBM de Canadá o Estados Unidos, llame al 1-800-IBM-SERV (o 1-800-426-7378). Para IBM de la Unión Europea (UE), Asia-Pacífico y América Latina, póngase en contacto con IBM del país o visite el Directorio de contacto IBM en el mundo en el siguiente sitio web de IBM: <http://www.ibm.com/planetwide/>.

IBM Garanti Bilgileri

Makine Tip(ler)i	Satın Alınan Ülke	Garanti Süresi (Yıl)	Garanti Hizmeti Tipi*	Hizmet Seviyesi*
IBM 5Ux26D Tower-to-Rack Conversion Kit	Dünya çapında	1	1	1

Garanti Hizmeti Tipleri: 1) Müşteri Tarafından Değiştirilebilir Birim (CRU); 5) CRU ve Müşteri Yerinde Teslim; 6) CRU ve Kurye veya Depo; 7) CRU ve Müşteri Tarafından Teslim veya Posta ile Teslim; 8) CRU ve Makine Değiştirme Hizmeti.

Hizmet Seviyeleri: 1) Sonraki İşgünü (NBD), 9x5; 2) Aynı İşgünü İçinde (SBD), 9x5; 3) Aynı Gün, 24x7.

* Garanti hizmeti tiplerine ve hizmet seviyelerine ilişkin ayrıntılı bilgi almak için *IBM Sınırlı Garanti Bildirimi* içinde yer alan “Garanti Hizmeti Tipi” ve “Hizmet Seviyeleri” başlıklı bölümlere bakın.

Bu ürün için *IBM Sınırlı Garanti Bildirimi*'nin bir kopyasını aşağıda URL adresi verilen IBM Web sitesinden de edinebilirsiniz: http://www.ibm.com/servers/support/machine_warranties/. Bu sitede 17 farklı dilde Sınırlı Garanti Bildirimi sağlanmaktadır. Yukarıdaki tabloda, Sınırlı Garanti Bildirimi “Bölüm 3 - Garanti Bilgileri” başlıklı bölümde yer alan ürüne özgü bilgiler bulunur.

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Appendix C. Notices

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Important notes

Processor speed indicates the internal clock speed of the microprocessor; other factors also affect application performance.

CD or DVD drive speed is the variable read rate. Actual speeds vary and are often less than the possible maximum.

When referring to processor storage, real and virtual storage, or channel volume, KB stands for 1024 bytes, MB stands for 1 048 576 bytes, and GB stands for 1 073 741 824 bytes.

When referring to hard disk drive capacity or communications volume, MB stands for 1 000 000 bytes, and GB stands for 1 000 000 000 bytes. Total user-accessible capacity can vary depending on operating environments.

Maximum internal hard disk drive capacities assume the replacement of any standard hard disk drives and population of all hard disk drive bays with the largest currently supported drives that are available from IBM.

Maximum memory might require replacement of the standard memory with an optional memory module.

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Particulate contamination

Attention: Airborne particulates (including metal flakes or particles) and reactive gases acting alone or in combination with other environmental factors such as humidity or temperature might pose a risk to the device that is described in this document. Risks that are posed by the presence of excessive particulate levels or concentrations of harmful gases include damage that might cause the device to malfunction or cease functioning altogether. This specification sets forth limits for particulates and gases that are intended to avoid such damage. The limits must not be viewed or used as definitive limits, because numerous other factors, such as temperature or moisture content of the air, can influence the impact of particulates or environmental corrosives and gaseous contaminant transfer. In the absence of specific limits that are set forth in this document, you must implement practices that maintain particulate and gas levels that are consistent with the protection of human health and safety. If IBM determines that the levels of particulates or gases in your environment have caused damage to the device, IBM may condition provision of repair or replacement of devices or parts on implementation of appropriate remedial measures to mitigate such environmental contamination. Implementation of such remedial measures is a customer responsibility.

Table 2. Limits for particulates and gases

Contaminant	Limits
Particulate	• The room air must be continuously filtered with 40% atmospheric dust spot efficiency (MERV 9) according to ASHRAE Standard 52.2¹. • Air that enters a data center must be filtered to 99.97% efficiency or greater, using high-efficiency particulate air (HEPA) filters that meet MIL-STD-282. • The deliquescent relative humidity of the particulate contamination must be more than 60%². • The room must be free of conductive contamination such as zinc whiskers.
Gaseous	• Copper: Class G1 as per ANSI/ISA 71.04-1985³ • Silver: Corrosion rate of less than 300 Å in 30 days

¹ ASHRAE 52.2-2008 - *Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size*. Atlanta: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

² The deliquescent relative humidity of particulate contamination is the relative humidity at which the dust absorbs enough water to become wet and promote ionic conduction.

³ ANSI/ISA-71.04-1985. *Environmental conditions for process measurement and control systems: Airborne contaminants*. Instrument Society of America, Research Triangle Park, North Carolina, U.S.A.

Documentation format

The publications for this product are in Adobe Portable Document Format (PDF) and should be compliant with accessibility standards. If you experience difficulties when you use the PDF files and want to request a Web-based format or accessible PDF document for a publication, direct your mail to the following address:

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Environmental notices

The multilingual *IBM Systems Environmental Notices and User's Guide* for this product is provided on the IBM *Documentation* CD that came with the server. This section contains additional environmental notices for this product.

Restriction of hazardous substances

有毒有害物质或元素名称及含量标识

Toxic / Hazardous Substances and Elements Table

部件名称 (Parts)	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
机架 chassis	○	○	○	○	○	○
外部盖板 external covers	○	○	○	○	○	○
机械组合件 mechanical assemblies	○	○	○	○	○	○
空气传动设备 air moving devices	×	○	○	○	○	○
冷却组合件 cooling assembly	×	○	○	○	○	○
内存模块 memory modules	×	○	○	○	○	○
处理器模块 processor modules	×	○	○	○	○	○
键盘 keyboard	×	○	○	○	○	○
调制解调器 modem	×	○	○	○	○	○
监视器 monitor	×	×	○	○	○	○
鼠标 mouse	×	○	○	○	○	○
电缆组合件 cable assemblies	×	○	○	○	○	○
电源 power supply	×	○	○	○	○	○
存储设备 storage device	×	○	○	○	○	○
电池匣组合件 battery pack assembly	×	○	○	○	○	○
电池 batteries	×	○	○	○	○	○
有 mech 的电路卡 circuit cards with mechs	×	○	○	○	○	○
无 mech 的电路卡 circuit cards w/o mechs	×	○	○	○	○	○
激光器 laser	×	○	○	○	○	○

○：指示部件的所有均质材料中有毒和危险物质的含量均低于 SJ/T 11363-2006 中所描述的浓度限制要求。

○: indicates that the content of the toxic and hazardous substance in all the homogeneous materials of the part is below the concentration limit requirement as described in SJ/T 11363-2006.

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Addendum to the Environmental Notices and User's Guide

Restriction of hazardous substance notice for Turkey:

Çevreye İlişkin Bildirimlere ve Ürün Kullanım Kılavuzuna Ek:

Türkiye için;

Bu bildirim 30 Mayıs 2009 tarihi itibarıyla geçerlidir: Türkiye'de yayımlanan "Elektrikli ve Elektronik Eşyalarda Bazı Zararlı Maddelerin Kullanımının Sınırlandırılmasına Dair Yönetmelik" (EEE Yönetmeliği) uyarınca, 30 Mayıs 2009 tarihinden itibaren Türkiye'ye ithal edilecek IBM ürünleri "EEE Yönetmeliğine Uygundur".

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WEEE notice for Croatia:

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U skladu s hrvatskim Pravilnikom o gospodarenju otpadnim električnim i elektroničkim uređajima i opremom, električna i elektronička oprema (EEE) se mora odvojeno skupljati i ponovno koristiti, reciklirati ili obnoviti na kraju korištenja. Simbol iz Dodatka IV ovog pravilnika označava potrebu odvojenog skupljanja za električni i elektronički otpad. Korisnici EEE s gornjom oznakom na proizvodu ne smiju nakon iskorištenja odbaciti EEE kao nerazvrstani gradski otpad, nego moraju koristiti načine koji su korisnicima dostupni za povrat, recikliranje i obnavljanje WEEE. Sudjelovanje korisnika je važno radi smanjenja mogućih EEE učinaka na okolinu i zdravlje ljudi, zbog mogućih prisutnosti opasnih materijala u EEE.

Electronic emission notices

Federal Communications Commission (FCC) statement

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. IBM is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada Class A emission compliance statement

This Class A digital apparatus complies with Canadian ICES-003.

Avis de conformité à la réglementation d'Industrie Canada

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Australia and New Zealand Class A statement

Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

European Union EMC Directive conformance statement

This product is in conformity with the protection requirements of EU Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility. IBM cannot accept responsibility for any failure to satisfy the protection requirements resulting from a nonrecommended modification of the product, including the fitting of non-IBM option cards.

This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to CISPR 22/European Standard EN 55022. The limits for Class A equipment were derived for commercial and industrial environments to provide reasonable protection against interference with licensed communication equipment.

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European Community contact:
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Fax: 0049 (0)711 785 1283
E-mail: tjahn@de.ibm.com

Germany Electromagnetic Compatibility Directive

Deutschsprachiger EU Hinweis:

Hinweis für Geräte der Klasse A EU-Richtlinie zur Elektromagnetischen Verträglichkeit

Dieses Produkt entspricht den Schutzanforderungen der EU-Richtlinie 2004/108/EG zur Angleichung der Rechtsvorschriften über die elektromagnetische Verträglichkeit in den EU-Mitgliedsstaaten und hält die Grenzwerte der EN 55022 Klasse A ein.

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Deutschland: Einhaltung des Gesetzes über die elektromagnetische Verträglichkeit von Geräten

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Zulassungsbescheinigung laut dem Deutschen Gesetz über die elektromagnetische Verträglichkeit von Geräten (EMVG) (bzw. der EMC EG Richtlinie 2004/108/EG) für Geräte der Klasse A

Dieses Gerät ist berechtigt, in Übereinstimmung mit dem Deutschen EMVG das EG-Konformitätszeichen - CE - zu führen. Verantwortlich für die Konformitätserklärung des EMVG ist die IBM Deutschland GmbH, 70548 Stuttgart.

Generelle Informationen:

Das Gerät erfüllt die Schutzanforderungen nach EN 55024 und EN 55022 Klasse A.

Japanese Voluntary Control Council for Interference (VCCI) statement

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求採取某些適當的對策。

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