



Zip Internal Drive

User's Guide

Note: Before using this information and the product it supports, be sure to read the information under Appendix A, "Product warranties and notices" on page 2-3.

First Edition (December 1999)

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Safety: Read first



Before installing this product, read the Safety Information.

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)。

Prije instalacije ovog produkta obavezno pročitajte Sigurnosne Upute.

Před instalací tohoto produktu si přečtěte příručku bezpečnostních instrukcí.
Læs sikkerhedsforskrifterne, før du installerer dette produkt.

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 ασφάλειας (safety information).

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.

Lees voordat u dit product installeert eerst de veiligheidsvoorschriften.

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.

安裝本產品之前，請先閱讀「安全資訊」。

Product registration

Thank you for purchasing OPTIONS by IBM . Please take a few moments to register your product and provide us with information that will help IBM to better serve you in the future. Your feedback is valuable to us in developing products and services that are important to you, as well as in developing better ways to communicate with you. Register your option on the IBM Web site at:

<http://www.ibm.com/pc/register>

IBM will send you information and updates on your registered product unless you indicate on the Web site questionnaire that you do not want to receive further information.

About this book

This manual contains information on the IBM Zip Internal Drive. The manual is divided into two parts:

Part 1: Installation instructions and usage information in the following languages: English, German, French, Spanish, Italian, Brazilian Portuguese, and Japanese

Part 2: Help and service information, the product warranties, and notices

<p>Note: The illustrations in this manual might be slightly different from your hardware.</p>
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Part 1: Installation and user's guide

This section contains the product description, hardware and software installation instructions, and operating instructions. For problem-solving information, refer to the online documentation on the included Zip Tools CD.

Introduction

The IBM Zip Internal Drive is a 3.5-inch ATAPI (AT Attachment Packet Interface) drive that works only with Zip cartridges, and can be installed only in computers that use the AT attachment/integrated drive electronics (ATA/IDE) architecture. You can conserve space on your hard disk drive by using your Zip drive to store and organize large files on Zip cartridges. Zip cartridges can easily hold multimedia, imaging, transaction-processing, or database files. The Zip drive and Zip cartridges are supported by Microsoft Windows 98, Windows 95, Microsoft Windows NT Workstation, Windows 3.1, IBM OS/2 Version 4, and MS-DOS Version 5.0 or later.

In addition to this User's Guide, your option package contains:

- Zip internal drive
- Zip Tools CD
- IDE cable
- Mounting screws
- Jumper
- Black Zip drive faceplate
- White Zip drive faceplate preinstalled on the Zip drive
- White desktop system faceplate
- White tower system faceplate
- Black tower system faceplate
- Safety information manual

Contact your place of purchase if parts are missing or damaged. Be sure to retain your proof of purchase. It might be required to receive warranty service.

Installation requirements

To install the Zip drive you must have:

Documentation

The documentation that comes with your computer and operating system.

IDE port or bus adapter

Your computer must have an IDE port on the system board or on an IDE bus adapter. If you are not sure about your IDE port or bus adapter, see the documentation that comes with your computer.

IDE cables and connectors

The IDE cables connect the IDE port on the system board, or on an IDE bus adapter, to your IDE storage devices. IDE storage devices are hard disk drives, CD-ROM drives, and tape drives.

If your computer has two IDE ports (one IDE cable on each port), you can attach up to four devices (two devices on each cable).

Note: Not all cables have connections for two IDE devices.

Tools and mounting brackets

You will need a flat-blade and a Phillips-head screwdriver.

Most computers have 3.5-inch and 5.25-inch drive bays. The Zip drive you are installing is designed for a 3.5-inch bay, but it can be adapted to a 5.25-inch bay. Common bay dimensions are:

- 3.5-inch—10.2 cm x 15.2 cm x 2.6 cm (4 in. x 6 in. x 1 in.)
- 5.25-inch—15.2 cm x 20.3 cm x 4.1 cm (6 in. x 8 in. x 1.63 in.)

Attention: If you are installing the drive in a half-high industry standard 5.25-inch bay, you need to purchase a commercially available 3.5-inch to 5.25-inch conversion kit.

If you are installing the drive in a computer that has a narrow 5.25-inch bay such as the IBM IntelliStation E-Pro 6893 model, you must use an Airspeed Super Kit (not included). For information on purchasing the Super Kit (IBM part number 01K5873), go to the Airspeed Web site at <http://www.airspeedllc.com> or contact Airspeed at 1-919-304-5000.

For more information on mounting a drive in your computer, contact your dealer or refer to the documentation that comes with your computer.

Installing the drive

The instructions in this section are general guidelines that apply to most computers. For specific information on installing a drive in your computer, see the documentation that comes with your computer.

Step 1. Removing the computer cover

Before removing the computer cover, complete the following steps:

1. Turn off the computer and all attached devices.
2. Unplug the cables from the electrical outlets for your computer and all attached devices.

It is now safe to remove the cover. Locate a vacant drive bay and remove the drive-bay panel. For specific information about opening your computer, see the documentation that comes with the computer.

Step 2. Unpacking the drive

Use the following procedure to unpack and handle the drive. To prevent damage and static-electricity discharge, limit handling to a minimum.

1. Do not open the antistatic bag until you are ready to install the drive. Static electricity can damage the drive and other computer components.
2. Touch your hand and the inner conductive surface of the antistatic bag containing the drive to an unpainted metal surface on the computer for two seconds. This drains static electricity from the bag and your body.
3. Before handling the drive, dissipate any electrical charge by touching an unpainted metal surface on the computer. Repeat this procedure after leaving and returning to your work area.
4. Always handle the drive by its edges. Do not touch any exposed printed circuitry, components or connector pins.
5. While installing the drive, avoid handling the drive unnecessarily. Rough handling can damage the heads, rotating disks, and bearings inside the drive housing.
6. If you must put the drive down, place the antistatic bag on a flat padded surface, such as a magazine, and place the drive on the bag with the component side facing up.
7. Do not insert a Zip cartridge when the drive power is off.

Step 3. Replacing the drive faceplate

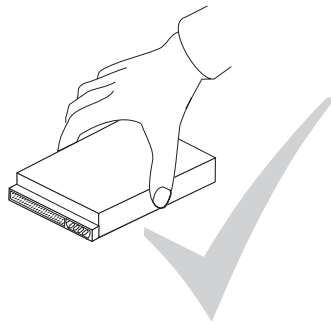
The Zip drive comes with a preinstalled white faceplate. If your computer system is black, you can remove the white faceplate and attach the included black faceplate to the drive.

To replace the faceplate:

1. Use the electrostatic precautions listed in steps 2 and 3 in “Step 2. Unpacking the drive” when you handle the drive. Save the antistatic bag for later use.
2. Do not press on the top of the drive when you are replacing faceplates 1. Always hold the drive by the sides 2. Conduct the faceplate replacement operation on a clean, flat, padded, and static-free work surface.

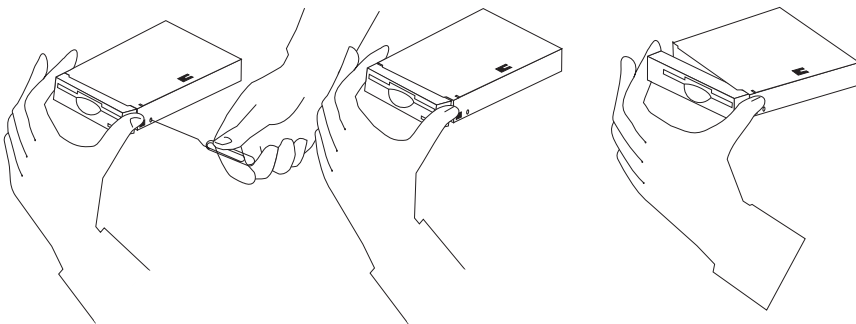


1

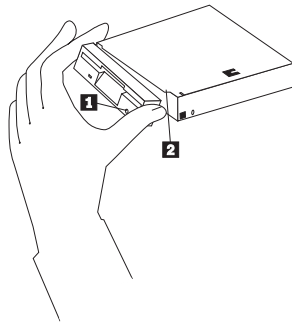


2

3. Using a straightened paper clip, as shown in the illustration, press on the right tab of the faceplate to detach it from the drive; then slowly and gently remove the faceplate. Do not bend the hooks that secure the top of the faceplate.



- Align the drive light pipe with the light-pipe hole 1 on the new faceplate; then secure the right side of the new faceplate to the hook 2 on the corner of the drive.



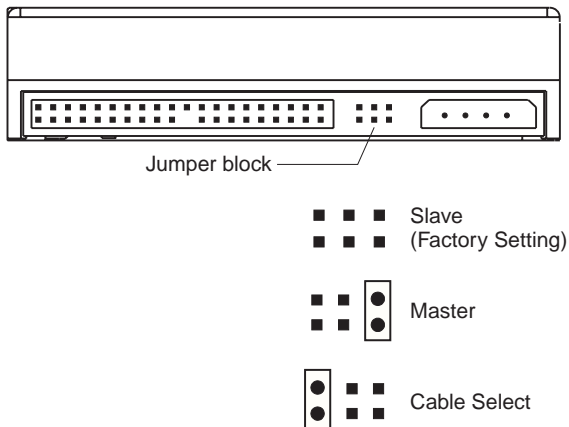
- Attach the left side of the new faceplate to the drive.
- Verify that the cartridge-eject switch clicks when you press on the light pipe.
- Verify that both the tabs and the hooks are fully locked in place.
- Place the removed faceplate in the antistatic bag and return the bag to the original shipping container.

Step 4. Setting the configuration jumpers

You can configure your Zip drive as Slave, Master, or Cable Select.

Note: The Cable Select configuration does not apply to IBM computers. If you are using an IBM computer, disregard the Cable Select information below.

The jumper setting configurations for your drive are shown in the following diagram:



Use the following guidelines to determine the correct configuration for your Zip drive:

Slave

The Zip drive comes set in the Slave configuration so that you can install it as a second drive on an IDE connection when the first drive is configured as a Master.

Refer to the documentation that came with your existing IDE drive or with your computer to verify the correct jumper settings for your drives.

Master

If you are installing the Zip drive as the only drive on the IDE cable, configure the Zip drive as a Master by placing the included jumper on the **Master** jumper pins, as shown in the diagram above. If the Zip drive is the only drive on the IDE cable, you can attach an additional drive configured as a Slave (a second Zip drive, an IDE hard disk drive, or a CD-ROM drive) to the IDE cable.

Cable Select

Note: The Cable Select configuration does not apply to IBM computers. If you are using an IBM computer, disregard the Cable Select information below.

Some systems use special IDE cables that enable the drive to be configured as Master or Slave by the cable rather than by the jumper position. The Cable Select position is to be used only for systems equipped with these special cables. See the documentation that comes with your computer to determine if your IDE bus adapter requires you to place the jumpers in the Cable Select position.

If you do not have documentation, look at the IDE cable. On a Cable Select system, there is a break or a hole on the IDE cable between the first and second drive connectors.

If you place the included jumper on the **Cable Select** jumper pins as shown in the diagram above, the IDE cable automatically assigns the Master and Slave settings based on the position of the drive on the cable. You must use the Cable Select setting whether the Zip drive is the only drive or the second drive connected to the cable. The drive closest to the IDE controller is automatically the Master drive. The other device on the IDE cable must also be set to Cable Select.

What to do next

If you are installing the drive in a 3.5-inch bay, go to “Step 6. Mounting the drive in the bay” on page 1-7.

If you are installing the drive in a 5.25-inch bay, go to “Step 5. Preparing the drive for a 5.25-inch bay” on page 1-7.

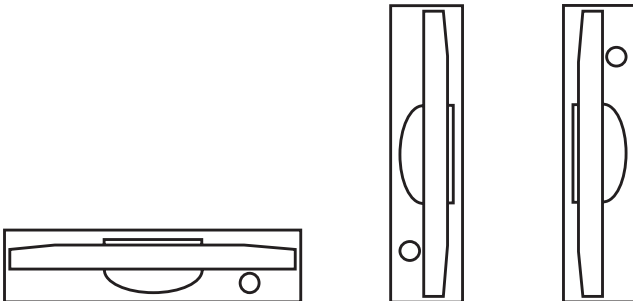
Step 5. Preparing the drive for a 5.25-inch bay

You must use a 3.5-inch to 5.25-inch conversion kit to install the drive in a half-high industry standard 5.25-inch bay. If you are installing the drive in a narrow 5.25-inch bay, you must use an Airspeed Super Kit. For information on purchasing the conversion kit or the Airspeed Super Kit, go to page 1-2. See the documentation that comes with the appropriate kit for directions on installing the drive in a 5.25-inch bay.

Step 6. Mounting the drive in the bay

Attention: If you are installing the drive in a 3.5-inch bay, be sure to use the mounting screws that come with the option package. If you are installing the drive in a 5.25-inch bay, be sure to use the mounting screws that come with the 3.5-inch to 5.25-inch conversion kit (not included) or with the Airspeed Super Kit (not included). You might damage your drive if you use mounting screws that are too long.

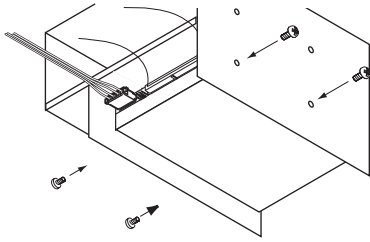
You can mount the drive horizontally or vertically in your computer.



To mount the drive in the bay:

1. Locate a vacant drive bay and remove the drive-bay panel.
2. Slide the drive into the bay.
3. Align the front of the Zip drive with other drives installed in the computer.
4. Align the drive-bay screw holes with the threaded holes in the drive housing or expansion brackets. For more information on the location of the drive-bay screw holes, refer to the documentation that comes with your computer or with the drive-bay conversion kit (not included).

5. Hand thread the screws to lightly secure the drive in the bay.



(If the drive is held in place securely by rails, you will not need to use the mounting screws.)

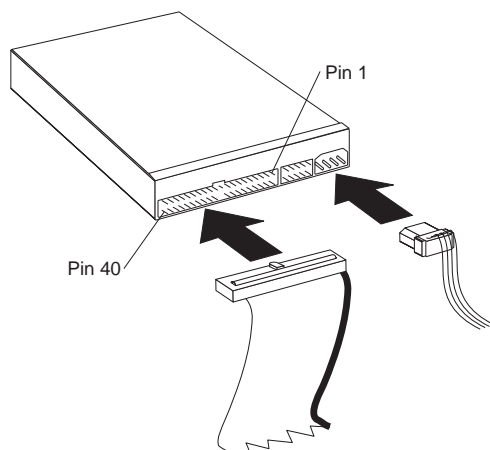
6. Check the drive alignment and tighten the screws. *Do not overtighten.*

Step 7. Connecting the drive and the cables

Connect the drive to an available 40-pin connector on the IDE cable. The IDE cable has three cable connectors. However, you can only connect two devices to the cable because you must use one of the connectors to connect the cable to the IDE port. If you are connecting only one device on the IDE cable, connect one end of the cable to the IDE port and connect the other end of the cable to the device. If the IDE cable is already connected to another device and to the IDE port, connect the second device to the cable connector that is not being used.

If you are connecting two devices on the IDE cable, connect one end of the cable to the IDE port and connect the Master and Slave devices to the remaining connectors. Many computers have two cables for attaching up to four IDE devices. Be sure that the startup hard disk drive is configured as a Master on the IDE cable connected to the primary IDE port. Refer to the documentation that came with your computer for information on the primary IDE port.

Connect an available dc power-cable connector to the four-pin dc power connector on the Zip drive, as shown.



If all power connectors are in use, purchase a dc Y-connector (available at many electronic stores) to provide power for two devices from one power cable.

The IDE cable connector is keyed and fits only one way. If the connector does not attach using firm pressure, check the orientation of the cable connector to the drive connector, and try again. Be sure that the computer cover will not pinch the cables. Also make sure that the cables will not impede replacing the cover. Check that all other cable connections are secure.

Step 8. Completing the installation of the drive

To complete the installation of the drive:

1. Verify that the drive is securely mounted and the cables are firmly attached.
2. If there are two drives connected to an IDE cable, verify that one drive is configured as a Master and the other drive is configured as a Slave. If there is one drive connected to an IDE cable, verify that the drive is configured as a Master.
3. Verify that the startup hard disk drive is configured as a Master on the IDE cable connected to the primary IDE port.
4. Verify that the cables do not interfere with the computer cover and do not block the power-supply fan blades or air-flow paths.
5. Reinstall the computer cover.
6. Reconnect all devices. Make sure that the keyboard, mouse, and monitor cables are firmly connected.
7. Reconnect all ac power cords.

Step 9. Attaching the system faceplates

This option package includes a white desktop system faceplate, a white tower system faceplate, and a black tower system faceplate.

Note: To attach a black desktop system faceplate (not included), you need to purchase an Airspeed Super Kit and follow directions that come with the Super Kit. For more information on purchasing the Super Kit, go to page 1-2.

Choose the faceplate that best matches the exterior cabinet of your computer, and attach it after you have mounted the Zip drive in the appropriate bay.

Installing the Zip drive software

You must install the Zip drive device driver from the Zip Tools CD so that you can use the utility programs that enable the Zip drive to work with your computer.

Installing the Zip drive software for Windows 98, Windows 95, or Windows NT

To install the Zip drive device driver and Tools software for Windows 98, Windows 95, or Windows NT:

1. Turn on your computer and start your operating system.
2. Insert the Zip Tools CD into your computer CD-ROM drive.
3. If the Zip Tools installation program does not start automatically, click **Start** → **Run**, type `x:\install` where *x* is the drive letter for the CD-ROM drive; then click **OK**.
4. Click the icon for your preferred language.
5. Click **Install Iomega software** and follow the on-screen instructions.
6. If the program restarts your operating system before the installation of the Zip Tools software, reinsert the Zip Tools CD into the computer CD-ROM drive and repeat steps 3–5 above.

Installing the Zip drive software for Windows 3.1

To install the Zip drive device driver and Tools software for Windows 3.1:

1. Turn on your computer.
2. Insert the Zip Tools CD into your computer CD-ROM drive.
3. Start Windows.
4. In **Program Manager**, click **File** → **Run**.
5. In the command line box, type `x:\language\w31stuff\setup` where *x* is the letter of your CD-ROM drive and *language* is the preferred language for the on-screen instructions.
6. Click **OK** or press Enter.
7. Follow the on-screen instructions.

Installing the Zip drive software for OS/2 Version 4

To install the Zip drive device driver and Zip Tools software for OS/2 Version 4:

1. Go to the OS/2 Device Driver Web (**OS/2 Device Driver Pak On-Line**) page at <http://service.software.ibm.com/os2ddpak/index.htm>.
2. Complete the on-screen license agreement.
3. Click **Removable Disks**.
4. Click **Iomega**.
5. Click **Iomega Zip 250**.
6. Follow installation instructions in the README.TXT file.

Installing software applications on the drive

Software applications that do not come with the Zip drive option package might not work with the Zip drive.

Some applications and games can be installed only on a nonremovable device such as a hard disk drive. To install these applications and games, you need to enable the computer to recognize your Zip drive as a hard disk drive by doing the following:

1. Right-click the **Zip drive** icon in **My Computer** or **Windows Explorer**.
2. Select **Make Nonremovable**.

Your computer now recognizes your Zip drive as a hard disk drive and you can install your application.

Note: When you install some software applications, a **System Error** message might display on the computer screen if there is no Zip cartridge in your Zip drive. Simply insert a Zip cartridge (not included) in the Zip drive to continue the software installation.

3. After the software installation completes, right-click the **Zip drive** icon and select **Make Removable** to restore disk removability.

Using the Zip drive and Zip cartridges

Attention: You must use Zip cartridges (not included) with your Zip drive. The Zip drive does not work with 1.44 MB¹ or 720 KB² diskettes. You will damage your Zip drive if you insert a 1.44 MB or 720 KB diskette.

You can use your Zip drive like any other drive on your computer system. Your Zip drive will have its own drive letter, and you can copy files to and from the Zip drive.

You can use the Zip drive and Zip cartridges to:

- Conserve hard disk drive space by storing data on a Zip cartridge
- Transport large amounts of information on Zip cartridges
- Back up and archive files
- Store multimedia files that require large amounts of storage space

Attention: You must turn on your computer before inserting or removing a Zip cartridge.

Formatting Zip cartridges

To format a Zip cartridge:

1. Insert the Zip cartridge in the Zip drive.
2. Go to the My Computer window and right-click the **Zip drive** icon.
3. Click **Format**.
4. Follow the on-screen instructions.

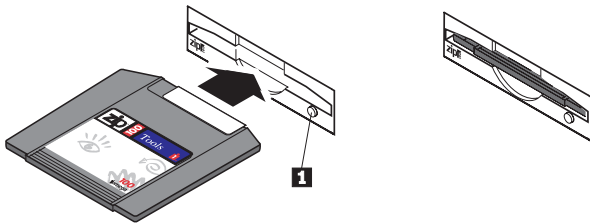
¹ MB equals approximately 1 000 000 bytes.

² KB equals approximately 1 000 bytes.

Transferring files to a Zip cartridge

To transfer files from your computer to a Zip cartridge:

1. Insert the Zip cartridge into the Zip drive, as shown. When you insert a Zip cartridge into the drive, the drive-busy indicator 1 lights for a moment.



(If the indicator continues to light, push the cartridge-eject switch to eject the Zip cartridge; then reinsert the cartridge.)

2. Click the **Zip cartridge** icon or drive letter.
3. Use the file transfer procedures for your operating system to copy files on your computer to the Zip drive. The Zip drive stores the files on the Zip cartridge.

Backing up data to a Zip cartridge

To back up data from your hard disk drive to a Zip cartridge using Windows 98, Windows 95, or Windows NT, do the following:

1. Double-click the **IomegaWare** icon on the desktop.
2. Double-click the **1-Step Backup** icon or the **1-Step Restore** icon.

Assigning a drive letter to the drive using MS-DOS Version 5.0 or later

To assign a drive letter for the Zip drive using MS-DOS Version 5.0 or later:

1. Turn on your computer.
2. Insert the Zip Tools CD into your computer CD-ROM drive.
3. Type `x:\language\DOSSTUFF\GUEST` at the DOS prompt where *x* is the letter of your CD-ROM drive, and *language* is the language you prefer for on-screen instructions.
4. MS-DOS will assign a drive letter to the Zip drive.

Read-protecting and write-protecting Zip cartridges

The Tools software included on the Zip Tools CD contains a read-protect and write-protect utility program for Windows that enables you to:

Write-protect a Zip cartridge without using a mechanical write-protect switch

Assign a password that will be needed to disable write-protect on your Zip cartridge

Read-protect a Zip cartridge so that it cannot be read from, or written to, if a user does not type the correct password

To read-protect or write-protect a Zip cartridge in Windows 98 or Windows 95:

1. Double-click the **My Computer** icon.
2. Read- or write-protect the Zip cartridge by right-clicking the **Zip drive** icon and clicking the **Protect** option.

Note: If a Zip cartridge is not inserted in the drive, the **Protect** option will not be available.

Repeat the steps above to remove read-protection or write-protection.

Reducing power consumption when using Zip cartridges

The Zip drive has an automatic sleep mode. This capability reduces power consumption and prolongs the life of Zip cartridges. After 15 minutes of inactivity, the Zip drive motor turns off, and the cartridge stops spinning. The Zip drive motor automatically resumes operation when you or your computer need to access it.

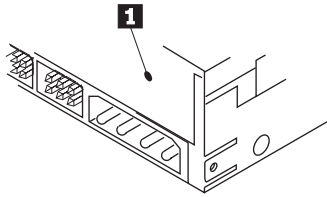
Removing a Zip cartridge during a power failure

<p>Attention: You must turn off your computer and all attached devices and unplug the cables from the electrical outlets for your computer and all attached devices before using the emergency cartridge-eject hole.</p>

If you must remove a Zip cartridge from the drive during a power failure, do the following:

1. Remove the computer cover using instructions given in “Step 1. Removing the computer cover” on page 1-3.
2. Remove the IDE and power cables from the drive.

3. Push a straightened paper clip into the emergency cartridge-eject hole 1 that is located above the power connector on the rear of the drive, as shown.



Do not forcibly remove the Zip cartridge from the drive. If the cartridge does not eject immediately, try the emergency cartridge-eject procedure again.

Installation and user's guide (Translate)

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Introduction

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For more information on mounting a drive in your computer, contact your dealer or refer to the documentation that comes with your computer.

Installing the drive

The instructions in this section are general guidelines that apply to most computers. For specific information on installing a drive in your computer, see the documentation that comes with your computer.

Step 1. Removing the computer cover

Before removing the computer cover, complete the following steps:

1. Turn off the computer and all attached devices.
2. Unplug the cables from the electrical outlets for your computer and all attached devices.

It is now safe to remove the cover. Locate a vacant drive bay and remove the drive-bay panel. For specific information about opening your computer, see the documentation that comes with the computer.

Step 2. Unpacking the drive

Use the following procedure to unpack and handle the drive. To prevent damage and static-electricity discharge, limit handling to a minimum.

1. Do not open the antistatic bag until you are ready to install the drive. Static electricity can damage the drive and other computer components.
2. Touch your hand and the inner conductive surface of the antistatic bag containing the drive to an unpainted metal surface on the computer for two seconds. This drains static electricity from the bag and your body.
3. Before handling the drive, dissipate any electrical charge by touching an unpainted metal surface on the computer. Repeat this procedure after leaving and returning to your work area.
4. Always handle the drive by its edges. Do not touch any exposed printed circuitry, components or connector pins.
5. While installing the drive, avoid handling the drive unnecessarily. Rough handling can damage the heads, rotating disks, and bearings inside the drive housing.
6. If you must put the drive down, place the antistatic bag on a flat padded surface, such as a magazine, and place the drive on the bag with the component side facing up.
7. Do not insert a Zip cartridge when the drive power is off.

Step 3. Replacing the drive faceplate

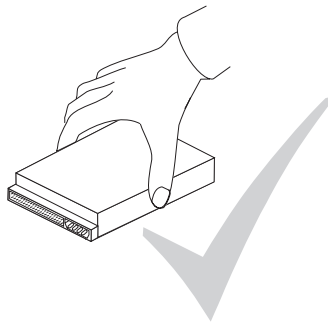
The Zip drive comes with a preinstalled white faceplate. If your computer system is black, you can remove the white faceplate and attach the included black faceplate to the drive.

To replace the faceplate:

1. Use the electrostatic precautions listed in steps 2 and 3 in “Step 2. Unpacking the drive” when you handle the drive. Save the antistatic bag for later use.
2. Do not press on the top of the drive when you are replacing faceplates 1 . Always hold the drive by the sides 2 . Conduct the faceplate replacement operation on a clean, flat, padded, and static-free work surface.

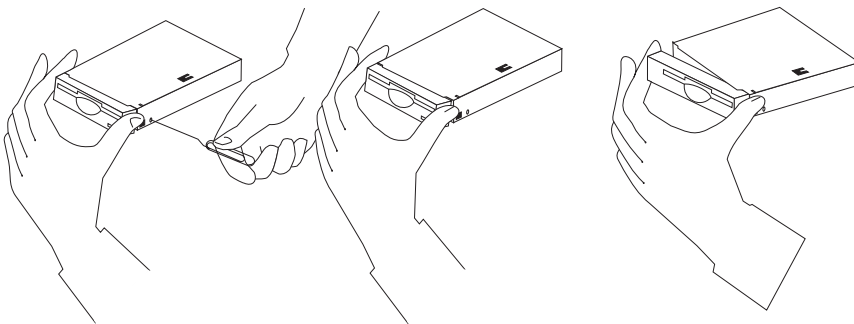


1

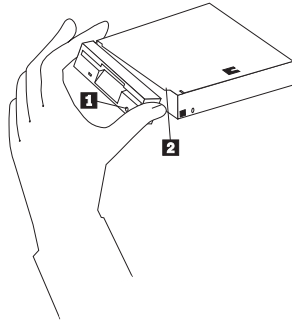


2

3. Using a straightened paper clip, as shown in the illustration, press on the right tab of the faceplate to detach it from the drive; then slowly and gently remove the faceplate. Do not bend the hooks that secure the top of the faceplate.



- Align the drive light pipe with the light-pipe hole 1 on the new faceplate; then secure the right side of the new faceplate to the hook 2 on the corner of the drive.



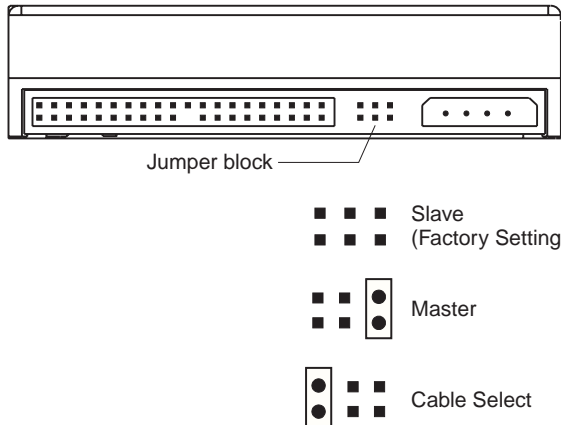
- Attach the left side of the new faceplate to the drive.
- Verify that the cartridge-eject switch clicks when you press on the light pipe.
- Verify that both the tabs and the hooks are fully locked in place.
- Place the removed faceplate in the antistatic bag and return the bag to the original shipping container.

Step 4. Setting the configuration jumpers

You can configure your Zip drive as Slave, Master, or Cable Select.

Note: The Cable Select configuration does not apply to IBM computers. If you are using an IBM computer, disregard the Cable Select information below.

The jumper setting configurations for your drive are shown in the following diagram:



Use the following guidelines to determine the correct configuration for your Zip drive:

Slave

The Zip drive comes set in the Slave configuration so that you can install it as a second drive on an IDE connection when the first drive is configured as a Master.

Refer to the documentation that came with your existing IDE drive or with your computer to verify the correct jumper settings for your drives.

Master

If you are installing the Zip drive as the only drive on the IDE cable, configure the Zip drive as a Master by placing the included jumper on the **Master** jumper pins, as shown in the diagram above. If the Zip drive is the only drive on the IDE cable, you can attach an additional drive configured as a Slave (a second Zip drive, an IDE hard disk drive, or a CD-ROM drive) to the IDE cable.

Cable Select

Note: The Cable Select configuration does not apply to IBM computers. If you are using an IBM computer, disregard the Cable Select information below.

Some systems use special IDE cables that enable the drive to be configured as Master or Slave by the cable rather than by the jumper position. The Cable Select position is to be used only for systems equipped with these special cables. See the documentation that comes with your computer to determine if your IDE bus adapter requires you to place the jumpers in the Cable Select position.

If you do not have documentation, look at the IDE cable. On a Cable Select system, there is a break or a hole on the IDE cable between the first and second drive connectors.

If you place the included jumper on the **Cable Select** jumper pins as shown in the diagram above, the IDE cable automatically assigns the Master and Slave settings based on the position of the drive on the cable. You must use the Cable Select setting whether the Zip drive is the only drive or the second drive connected to the cable. The drive closest to the IDE controller is automatically the Master drive. The other device on the IDE cable must also be set to Cable Select.

What to do next

If you are installing the drive in a 3.5-inch bay, go to “Step 6. Mounting the drive in the bay” on page 1-22.

If you are installing the drive in a 5.25-inch bay, go to “Step 5. Preparing the drive for a 5.25-inch bay” on page 1-22.

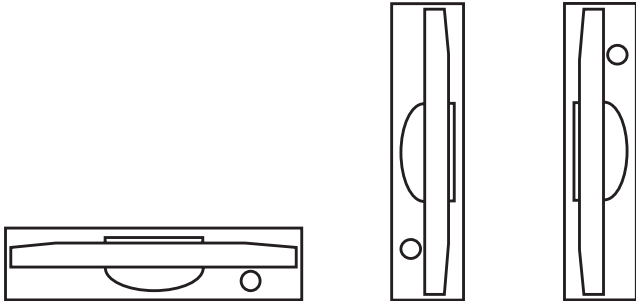
Step 5. Preparing the drive for a 5.25-inch bay

You must use a 3.5-inch to 5.25-inch conversion kit to install the drive in a half-high industry standard 5.25-inch bay. If you are installing the drive in a narrow 5.25-inch bay, you must use an Airspeed Super Kit. For information on purchasing the conversion kit or the Airspeed Super Kit, go to page 1-17. See the documentation that comes with the appropriate kit for directions on installing the drive in a 5.25-inch bay.

Step 6. Mounting the drive in the bay

Attention: If you are installing the drive in a 3.5-inch bay, be sure to use the mounting screws that come with the option package. If you are installing the drive in a 5.25-inch bay, be sure to use the mounting screws that come with the 3.5-inch to 5.25-inch conversion kit (not included) or with the Airspeed Super Kit (not included). You might damage your drive if you use mounting screws that are too long.

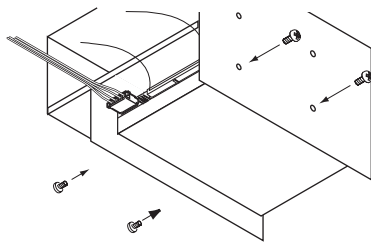
You can mount the drive horizontally or vertically in your computer.



To mount the drive in the bay:

1. Locate a vacant drive bay and remove the drive-bay panel.
2. Slide the drive into the bay.
3. Align the front of the Zip drive with other drives installed in the computer.
4. Align the drive-bay screw holes with the threaded holes in the drive housing or expansion brackets. For more information on the location of the drive-bay screw holes, refer to the documentation that comes with your computer or with the drive-bay conversion kit (not included).

5. Hand thread the screws to lightly secure the drive in the bay.



(If the drive is held in place securely by rails, you will not need to use the mounting screws.)

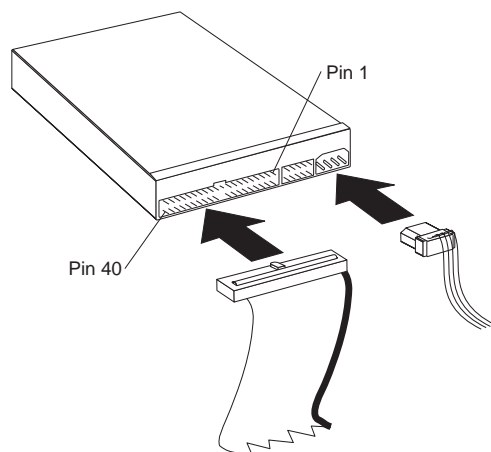
6. Check the drive alignment and tighten the screws. *Do not overtighten.*

Step 7. Connecting the drive and the cables

Connect the drive to an available 40-pin connector on the IDE cable. The IDE cable has three cable connectors. However, you can only connect two devices to the cable because you must use one of the connectors to connect the cable to the IDE port. If you are connecting only one device on the IDE cable, connect one end of the cable to the IDE port and connect the other end of the cable to the device. If the IDE cable is already connected to another device and to the IDE port, connect the second device to the cable connector that is not being used.

If you are connecting two devices on the IDE cable, connect one end of the cable to the IDE port and connect the Master and Slave devices to the remaining connectors. Many computers have two cables for attaching up to four IDE devices. Be sure that the startup hard disk drive is configured as a Master on the IDE cable connected to the primary IDE port. Refer to the documentation that came with your computer for information on the primary IDE port.

Connect an available dc power-cable connector to the four-pin dc power connector on the Zip drive, as shown.



If all power connectors are in use, purchase a dc Y-connector (available at many electronic stores) to provide power for two devices from one power cable.

The IDE cable connector is keyed and fits only one way. If the connector does not attach using firm pressure, check the orientation of the cable connector to the drive connector, and try again. Be sure that the computer cover will not pinch the cables. Also make sure that the cables will not impede replacing the cover. Check that all other cable connections are secure.

Step 8. Completing the installation of the drive

To complete the installation of the drive:

1. Verify that the drive is securely mounted and the cables are firmly attached.
2. If there are two drives connected to an IDE cable, verify that one drive is configured as a Master and the other drive is configured as a Slave. If there is one drive connected to an IDE cable, verify that the drive is configured as a Master.
3. Verify that the startup hard disk drive is configured as a Master on the IDE cable connected to the primary IDE port.
4. Verify that the cables do not interfere with the computer cover and do not block the power-supply fan blades or air-flow paths.
5. Reinstall the computer cover.
6. Reconnect all devices. Make sure that the keyboard, mouse, and monitor cables are firmly connected.
7. Reconnect all ac power cords.

Step 9. Attaching the system faceplates

This option package includes a white desktop system faceplate, a white tower system faceplate, and a black tower system faceplate.

Note: To attach a black desktop system faceplate (not included), you need to purchase an Airspeed Super Kit and follow directions that come with the Super Kit. For more information on purchasing the Super Kit, go to 1-17.

Choose the faceplate that best matches the exterior cabinet of your computer, and attach it after you have mounted the Zip drive in the appropriate bay.

Installing the Zip drive software

You must install the Zip drive device driver from the Zip Tools CD so that you can use the utility programs that enable the Zip drive to work with your computer.

Installing the Zip drive software for Windows 98, Windows 95, or Windows NT

To install the Zip drive device driver and Tools software for Windows 98, Windows 95, or Windows NT:

1. Turn on your computer and start your operating system.
2. Insert the Zip Tools CD into your computer CD-ROM drive.
3. If the Zip Tools installation program does not start automatically, click **Start** → **Run**, type `x:\install` where *x* is the drive letter for the CD-ROM drive; then click **OK**.
4. Click the icon for your preferred language.
5. Click **Install Iomega software** and follow the on-screen instructions.
6. If the program restarts your operating system before the installation of the Zip Tools software, reinsert the Zip Tools CD into the computer CD-ROM drive and repeat steps 3–5 above.

Installing the Zip drive software for Windows 3.1

To install the Zip drive device driver and Tools software for Windows 3.1:

1. Turn on your computer.
2. Insert the Zip Tools CD into your computer CD-ROM drive.
3. Start Windows.
4. In **Program Manager**, click **File** → **Run**.
5. In the command line box, type `x:\language\w31stuff\setup` where *x* is the letter of your CD-ROM drive and *language* is the preferred language for the on-screen instructions.
6. Click **OK** or press Enter.
7. Follow the on-screen instructions.

Installing the Zip drive software for OS/2 Version 4

To install the Zip drive device driver and Zip Tools software for OS/2 Version 4:

1. Go to the OS/2 Device Driver Web (**OS/2 Device Driver Pak On-Line**) page at <http://service.software.ibm.com/os2ddpak/index.htm>.
2. Complete the on-screen license agreement.
3. Click **Removable Disks**.
4. Click **Iomega**.
5. Click **Iomega Zip 250**.
6. Follow installation instructions in the README.TXT file.

Installing software applications on the drive

Software applications that do not come with the Zip drive option package might not work with the Zip drive.

Some applications and games can be installed only on a nonremovable device such as a hard disk drive. To install these applications and games, you need to enable the computer to recognize your Zip drive as a hard disk drive by doing the following:

1. Right-click the **Zip drive** icon in **My Computer** or **Windows Explorer**.
2. Select **Make Nonremovable**.

Your computer now recognizes your Zip drive as a hard disk drive and you can install your application.

Note: When you install some software applications, a **System Error** message might display on the computer screen if there is no Zip cartridge in your Zip drive. Simply insert a Zip cartridge (not included) in the Zip drive to continue the software installation.

3. After the software installation completes, right-click the **Zip drive** icon and select **Make Removable** to restore disk removability.

Using the Zip drive and Zip cartridges

Attention: You must use Zip cartridges (not included) with your Zip drive. The Zip drive does not work with 1.44 MB³ or 720 KB⁴ diskettes. You will damage your Zip drive if you insert a 1.44 MB or 720 KB diskette.

You can use your Zip drive like any other drive on your computer system. Your Zip drive will have its own drive letter, and you can copy files to and from the Zip drive.

You can use the Zip drive and Zip cartridges to:

- Conserve hard disk drive space by storing data on a Zip cartridge
- Transport large amounts of information on Zip cartridges
- Back up and archive files
- Store multimedia files that require large amounts of storage space

Attention: You must turn on your computer before inserting or removing a Zip cartridge.

Formatting Zip cartridges

To format a Zip cartridge:

1. Insert the Zip cartridge in the Zip drive.
2. Go to the My Computer window and right-click the **Zip drive** icon.
3. Click **Format**.
4. Follow the on-screen instructions.

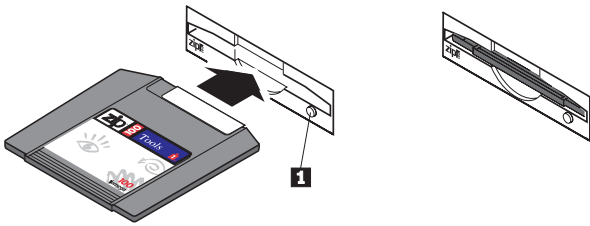
³ MB equals approximately 1 000 000 bytes.

⁴ KB equals approximately 1 000 bytes.

Transferring files to a Zip cartridge

To transfer files from your computer to a Zip cartridge:

1. Insert the Zip cartridge into the Zip drive, as shown. When you insert a Zip cartridge into the drive, the drive-busy indicator 1 lights for a moment.



(If the indicator continues to light, push the cartridge-eject switch to eject the Zip cartridge; then reinsert the cartridge.)

2. Click the **Zip cartridge** icon or drive letter.
3. Use the file transfer procedures for your operating system to copy files on your computer to the Zip drive. The Zip drive stores the files on the Zip cartridge.

Backing up data to a Zip cartridge

To back up data from your hard disk drive to a Zip cartridge using Windows 98, Windows 95, or Windows NT, do the following:

1. Double-click the **IomegaWare** icon on the desktop.
2. Double-click the **1-Step Backup** icon or the **1-Step Restore** icon.

Assigning a drive letter to the drive using MS-DOS Version 5.0 or later

To assign a drive letter for the Zip drive using MS-DOS Version 5.0 or later:

1. Turn on your computer.
2. Insert the Zip Tools CD into your computer CD-ROM drive.
3. Type `x:\language\DOSSTUFF\GUEST` at the DOS prompt where *x* is the letter of your CD-ROM drive, and *language* is the language you prefer for on-screen instructions.
4. MS-DOS will assign a drive letter to the Zip drive.

Read-protecting and write-protecting Zip cartridges

The Tools software included on the Zip Tools CD contains a read-protect and write-protect utility program for Windows that enables you to:

Write-protect a Zip cartridge without using a mechanical write-protect switch

Assign a password that will be needed to disable write-protect on your Zip cartridge

Read-protect a Zip cartridge so that it cannot be read from, or written to, if a user does not type the correct password

To read-protect or write-protect a Zip cartridge in Windows 98 or Windows 95:

1. Double-click the **My Computer** icon.
2. Read- or write-protect the Zip cartridge by right-clicking the **Zip drive** icon and clicking the **Protect** option.

Note: If a Zip cartridge is not inserted in the drive, the **Protect** option will not be available.

Repeat the steps above to remove read-protection or write-protection.

Reducing power consumption when using Zip cartridges

The Zip drive has an automatic sleep mode. This capability reduces power consumption and prolongs the life of Zip cartridges. After 15 minutes of inactivity, the Zip drive motor turns off, and the cartridge stops spinning. The Zip drive motor automatically resumes operation when you or your computer need to access it.

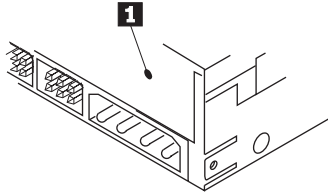
Removing a Zip cartridge during a power failure

<p>Attention: You must turn off your computer and all attached devices and unplug the cables from the electrical outlets for your computer and all attached devices before using the emergency cartridge-eject hole.</p>

If you must remove a Zip cartridge from the drive during a power failure, do the following:

1. Remove the computer cover using instructions given in “Step 1. Removing the computer cover” on page 1-18.
2. Remove the IDE and power cables from the drive.

3. Push a straightened paper clip into the emergency cartridge-eject hole 1 that is located above the power connector on the rear of the drive, as shown.



Do not forcibly remove the Zip cartridge from the drive. If the cartridge does not eject immediately, try the emergency cartridge-eject procedure again.

Product registration

Thank you for purchasing OPTIONS by IBM . Please take a few moments to register your product and provide us with information that will help IBM to better serve you in the future. Your feedback is valuable to us in developing products and services that are important to you, as well as in developing better ways to communicate with you. Register your option on the IBM Web site at:

<http://www.ibm.com/pc/register>

IBM will send you information and updates on your registered product unless you indicate on the Web site questionnaire that you do not want to receive further information.

Product service and warranty information

For technical support, support hours, and warranty terms and conditions, see the enclosed inserts, or contact your IBM reseller or IBM marketing representative.

Part 2: Appendixes

This section provides information on help and service, the product warranties, and notices.

This section contains information on how to obtain online and telephone technical support.

Online technical support

Online technical support is available during the life of your product. Online assistance can be obtained through the Personal Computing Support Web site and the IBM Automated Fax System.

<i>Online technical support</i>	
IBM Personal Computing Support Web Site	http://www.ibm.com/pc/support
IBM Automated Fax System	1-800-426-3395 1-800-465-3299 (in Canada)

During the warranty period, assistance for replacement or exchange of defective components is available. In addition, if your IBM option is installed in an IBM computer, you might be entitled to service at your location. Your technical support representative can help you determine the best alternative.

Telephone technical support

Marketing, installation, and configuration support through the HelpCenter will be withdrawn or made available for a fee, at IBM's discretion, 90 days after the option has been withdrawn from marketing. Additional support offerings, including step-by-step installation assistance, are available for a nominal fee.

To assist the technical support representative, have available as much of the following information as possible:

1. Option name
2. Option number
3. Proof of purchase
4. Computer manufacturer, model, serial number (if IBM), and manual
5. Exact wording of the error message (if any)
6. Description of the problem
7. Hardware and software configuration information for your system

If possible, be at your computer. Your technical support representative might want to walk you through the problem during the call.

For the support telephone number and support hours by country, refer to the following table or to the enclosed technical support insert. If the number is not provided, contact your IBM reseller or IBM marketing representative. Response time may vary depending on the number and nature of the calls received.

<i>Support 24 hours a day, 7 days a week</i>	
Canada	1-800-565-3344
U.S.A./Puerto Rico	1-800-772-2227

Appendix A. Product warranties and notices

Warranty Statements

The warranty statements consist of two parts: Part 1 and Part 2. Part 1 varies by country. Part 2 is the same for both statements. Be sure to read both the Part 1 that applies to your country and Part 2.

United States, Puerto Rico, and Canada (Z125-4753-05 11/97)

(Part 1 - General Terms on page 2-3)

Worldwide except Canada, Puerto Rico, Turkey, and United States (Z125-5697-01 11/97)

(Part 1 - General Terms on page 2-6)

Worldwide Country-Unique Terms

(Part 2 - Country-Unique Terms on page 2-9)

IBM Statement of Limited Warranty for United States, Puerto Rico, and Canada (Part 1 - General Terms)

This Statement of Limited Warranty includes Part 1 - General Terms and Part 2 - Country-unique Terms. The terms of Part 2 may replace or modify those of Part 1. The warranties provided by IBM in this Statement of Limited Warranty apply only to Machines you purchase for your use, and not for resale, from IBM or your reseller. The term "Machine" means an IBM machine, its features, conversions, upgrades, elements, or accessories, or any combination of them. The term "Machine" does not include any software programs, whether pre-loaded with the Machine, installed subsequently or otherwise. Unless IBM specifies otherwise, the following warranties apply only in the country where you acquire the Machine. Nothing in this Statement of Warranty affects any statutory rights of consumers that cannot be waived or limited by contract. If you have any questions, contact IBM or your reseller.

Machine - Zip Internal Drive

Warranty Period* - One Year

**Contact your place of purchase for warranty service information. Some IBM Machines are eligible for On-site warranty service depending on the country where service is performed.*

The IBM Warranty for Machines

IBM warrants that each Machine 1) is free from defects in materials and workmanship and 2) conforms to IBM's Official Published Specifications. The warranty period for a Machine is a specified, fixed period commencing on its Date of Installation. The date on your sales receipt is the Date of Installation, unless IBM or your reseller informs you otherwise.

During the warranty period IBM or your reseller, if approved by IBM to provide warranty service, will provide repair and exchange service for the Machine, without charge, under the type of service designated for the Machine and will manage and install engineering changes that apply to the Machine.

If a Machine does not function as warranted during the warranty period, and IBM or your reseller are unable to either 1) make it do so or 2) replace it with one that is at least functionally equivalent, you may return it to your place of purchase and your money will be refunded. The replacement may not be new, but will be in good working order.

Extent of Warranty

The warranty does not cover the repair or exchange of a Machine resulting from misuse, accident, modification, unsuitable physical or operating environment, improper maintenance by you, or failure caused by a product for which IBM is not responsible. The warranty is voided by removal or alteration of Machine or parts identification labels.

THESE WARRANTIES ARE YOUR EXCLUSIVE WARRANTIES AND REPLACE ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THESE WARRANTIES GIVE YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM JURISDICTION TO JURISDICTION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF EXPRESS OR IMPLIED WARRANTIES, SO THE ABOVE EXCLUSION OR LIMITATION MAY NOT APPLY TO YOU. IN THAT EVENT, SUCH WARRANTIES ARE LIMITED IN DURATION TO THE WARRANTY PERIOD. NO WARRANTIES APPLY AFTER THAT PERIOD.

Items Not Covered by Warranty

IBM does not warrant uninterrupted or error-free operation of a Machine.

Unless specified otherwise, IBM provides non-IBM machines **WITHOUT WARRANTIES OF ANY KIND.**

Any technical or other support provided for a Machine under warranty, such as assistance via telephone with "how-to" questions and those regarding Machine set-up and installation, will be provided **WITHOUT WARRANTIES OF ANY KIND.**

Warranty Service

To obtain warranty service for the Machine, contact your reseller or IBM. In the United States, call IBM at 1-800-772-2227. In Canada, call IBM at 1-800-565-3344. You may be required to present proof of purchase.

IBM or your reseller provides certain types of repair and exchange service, either at your location or at a service center, to keep Machines in, or restore them to, conformance with their Specifications. IBM or your reseller will inform you of the available types of service for a Machine based on its country of installation. IBM may repair the failing Machine or exchange it at its discretion.

When warranty service involves the exchange of a Machine or part, the item IBM or your reseller replaces becomes its property and the replacement becomes yours. You represent that all removed items are genuine and unaltered. The replacement may not be new, but will be in good working order and at least functionally equivalent to the item replaced. The replacement assumes the warranty service status of the replaced item.

Any feature, conversion, or upgrade IBM or your reseller services must be installed on a Machine which is 1) for certain Machines, the designated, serial-numbered Machine and 2) at an engineering-change level compatible with the feature, conversion, or upgrade. Many features, conversions, or upgrades involve the removal of parts and their return to IBM. A part that replaces a removed part will assume the warranty service status of the removed part.

Before IBM or your reseller exchanges a Machine or part, you agree to remove all features, parts, options, alterations, and attachments not under warranty service.

You also agree to

1. ensure that the Machine is free of any legal obligations or restrictions that prevent its exchange;
2. obtain authorization from the owner to have IBM or your reseller service a Machine that you do not own; and
3. where applicable, before service is provided
 - a. follow the problem determination, problem analysis, and service request procedures that IBM or your reseller provides,
 - b. secure all programs, data, and funds contained in a Machine,
 - c. provide IBM or your reseller with sufficient, free, and safe access to your facilities to permit them to fulfill their obligations, and
 - d. inform IBM or your reseller of changes in a Machine's location.

IBM is responsible for loss of, or damage to, your Machine while it is 1) in IBM's possession or 2) in transit in those cases where IBM is responsible for the transportation charges.

Neither IBM nor your reseller is responsible for any of your confidential, proprietary or personal information contained in a Machine which you return to IBM or your reseller for any reason. You should remove all such information from the Machine prior to its return.

Production Status

Each IBM Machine is manufactured from new parts, or new and used parts. In some cases, the Machine may not be new and may have been previously installed. Regardless of the Machine's production status, IBM's appropriate warranty terms apply.

Limitation of Liability

Circumstances may arise where, because of a default on IBM's part or other liability, you are entitled to recover damages from IBM. In each such instance, regardless of the basis on which you are entitled to claim damages from IBM (including fundamental breach, negligence, misrepresentation, or other contract or tort claim), IBM is liable for no more than

1. damages for bodily injury (including death) and damage to real property and tangible personal property; and
2. the amount of any other actual direct damages, up to the greater of U.S. \$100,000 (or equivalent in local currency) or the charges (if recurring, 12 months' charges apply) for the Machine that is the subject of the claim.

This limit also applies to IBM's suppliers and your reseller. It is the maximum for which IBM, its suppliers, and your reseller are collectively responsible.

UNDER NO CIRCUMSTANCES IS IBM LIABLE FOR ANY OF THE FOLLOWING: 1) THIRD-PARTY CLAIMS AGAINST YOU FOR DAMAGES (OTHER THAN THOSE UNDER THE FIRST ITEM LISTED ABOVE); 2) LOSS OF, OR DAMAGE TO, YOUR RECORDS OR DATA; OR 3) SPECIAL, INCIDENTAL, OR INDIRECT DAMAGES OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS OR SAVINGS), EVEN IF IBM, ITS SUPPLIERS OR YOUR RESELLER IS INFORMED OF THEIR POSSIBILITY. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

IBM Statement of Warranty Worldwide except Canada, Puerto Rico, Turkey, United States (Part 1 - General Terms)

This Statement of Warranty includes Part 1 - General Terms and Part 2 - Country-unique Terms. The terms of Part 2 may replace or modify those of Part 1. The warranties provided by IBM in this Statement of Warranty apply only to Machines you purchase for your use, and not for resale, from IBM or your reseller. The term "Machine" means an IBM machine, its features, conversions, upgrades, elements, or accessories, or any combination of them. The term "Machine" does not include any software programs, whether pre-loaded with the Machine, installed subsequently or otherwise. Unless IBM specifies otherwise, the following warranties apply only in the country where you acquire the Machine. Nothing in this Statement of Warranty affects any statutory rights of consumers that cannot be waived or limited by contract. If you have any questions, contact IBM or your reseller.

Machine - Zip Internal Drive

Warranty Period* - One Year

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IBM warrants that each Machine 1) is free from defects in materials and workmanship and 2) conforms to IBM's Official Published Specifications. The warranty period for a Machine is a specified, fixed period commencing on its Date of Installation. The date on your sales receipt is the Date of Installation, unless IBM or your reseller informs you otherwise.

During the warranty period IBM or your reseller, if approved by IBM to provide warranty service, will provide repair and exchange service for the Machine, without charge, under the type of service designated for the Machine and will manage and install engineering changes that apply to the Machine.

If a Machine does not function as warranted during the warranty period, and IBM or your reseller are unable to either 1) make it do so or 2) replace it with one that is at least functionally equivalent, you may return it to your place of purchase and your money will be refunded. The replacement may not be new, but will be in good working order.

Extent of Warranty

The warranty does not cover the repair or exchange of a Machine resulting from misuse, accident, modification, unsuitable physical or operating environment, improper maintenance by you, or failure caused by a product for which IBM is not responsible. The warranty is voided by removal or alteration of Machine or parts identification labels.

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Items Not Covered by Warranty

IBM does not warrant uninterrupted or error-free operation of a Machine.

Unless specified otherwise, IBM provides non-IBM machines **WITHOUT WARRANTIES OF ANY KIND.**

Any technical or other support provided for a Machine under warranty, such as assistance via telephone with "how-to" questions and those regarding Machine set-up and installation, will be provided **WITHOUT WARRANTIES OF ANY KIND.**

Warranty Service

To obtain warranty service for the Machine, contact your reseller or IBM. You may be required to present proof of purchase.

IBM or your reseller provides certain types of repair and exchange service, either at your location or at a service center, to keep Machines in, or restore them to, conformance with their Specifications. IBM or your reseller will inform you of the available types of service for a Machine based on its country of installation. IBM may repair the failing Machine or exchange it at its discretion.

When warranty service involves the exchange of a Machine or part, the item IBM or your reseller replaces becomes its property and the replacement becomes yours. You represent that all removed items are genuine and unaltered. The replacement may not be new, but will be in good working order and at least functionally equivalent to the item replaced. The replacement assumes the warranty service status of the replaced item.

Any feature, conversion, or upgrade IBM or your reseller services must be installed on a Machine which is 1) for certain Machines, the designated, serial-numbered Machine and 2) at an engineering-change level compatible with the feature, conversion, or upgrade. Many features, conversions, or upgrades involve the removal of parts and their return to IBM. A part that replaces a removed part will assume the warranty service status of the removed part.

Before IBM or your reseller exchanges a Machine or part, you agree to remove all features, parts, options, alterations, and attachments not under warranty service.

You also agree to

1. ensure that the Machine is free of any legal obligations or restrictions that prevent its exchange;
2. obtain authorization from the owner to have IBM or your reseller service a Machine that you do not own; and
3. where applicable, before service is provided
 - a. follow the problem determination, problem analysis, and service request procedures that IBM or your reseller provides,
 - b. secure all programs, data, and funds contained in a Machine,
 - c. provide IBM or your reseller with sufficient, free, and safe access to your facilities to permit them to fulfil their obligations, and
 - d. inform IBM or your reseller of changes in a Machine's location.

IBM is responsible for loss of, or damage to, your Machine while it is 1) in IBM's possession or 2) in transit in those cases where IBM is responsible for the transportation charges.

Neither IBM nor your reseller is responsible for any of your confidential, proprietary or personal information contained in a Machine which you return to IBM or your reseller for any reason. You should remove all such information from the Machine prior to its return.

Production Status

Each IBM Machine is manufactured from new parts, or new and used parts. In some cases, the Machine may not be new and may have been previously installed. Regardless of the Machine's production status, IBM's appropriate warranty terms apply.

Limitation of Liability

Circumstances may arise where, because of a default on IBM's part or other liability, you are entitled to recover damages from IBM. In each such instance, regardless of the basis on which you are entitled to claim damages from IBM (including fundamental breach, negligence, misrepresentation, or other contract or tort claim), IBM is liable for no more than

1. damages for bodily injury (including death) and damage to real property and tangible personal property; and
2. the amount of any other actual direct damages, up to the greater of U.S. \$100,000 (or equivalent in local currency) or the charges (if recurring, 12 months' charges apply) for the Machine that is the subject of the claim.

This limit also applies to IBM's suppliers and your reseller. It is the maximum for which IBM, its suppliers, and your reseller are collectively responsible.

UNDER NO CIRCUMSTANCES IS IBM LIABLE FOR ANY OF THE FOLLOWING: 1) THIRD-PARTY CLAIMS AGAINST YOU FOR DAMAGES (OTHER THAN THOSE UNDER THE FIRST ITEM LISTED ABOVE); 2) LOSS OF, OR DAMAGE TO, YOUR RECORDS OR DATA; OR 3) SPECIAL, INCIDENTAL, OR INDIRECT DAMAGES OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS OR SAVINGS), EVEN IF IBM, ITS SUPPLIERS OR YOUR RESELLER IS INFORMED OF THEIR POSSIBILITY. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

Part 2 - Worldwide Country-Unique Terms

ASIA PACIFIC

AUSTRALIA: The IBM Warranty for Machines: The following paragraph is added to this Section:

The warranties specified in this Section are in addition to any rights you may have under the Trade Practices Act 1974 or other legislation and are only limited to the extent permitted by the applicable legislation.

Extent of Warranty: The following replaces the first and second sentences of this Section: The warranty does not cover the repair or exchange of a Machine resulting from misuse, accident, modification, unsuitable physical or operating environment, operation in other than the Specified Operating Environment, improper maintenance by you, or failure caused by a product for which IBM is not responsible.

Limitation of Liability: The following is added to this Section: Where IBM is in breach of a condition or warranty implied by the Trade Practices Act 1974, IBM's liability is limited to the repair or replacement of the goods or the supply of equivalent goods. Where that condition or warranty relates to right to sell, quiet possession or clear title, or the goods are of a kind ordinarily acquired for personal, domestic or household use or consumption, then none of the limitations in this paragraph apply.

PEOPLE'S REPUBLIC OF CHINA: Governing Law: The following is added to this Statement: The laws of the State of New York govern this Statement.

INDIA: Limitation of Liability: The following replaces items 1 and 2 of this Section:
1. liability for bodily injury (including death) or damage to real property and tangible personal property will be limited to that caused by IBM's negligence;
2. as to any other actual damage arising in any situation involving nonperformance by IBM pursuant to, or in any way related to the subject of this Statement of Warranty, IBM's liability will be limited to the charge paid by you for the individual Machine that is the subject of the claim.

NEW ZEALAND: The IBM Warranty for Machines: The following paragraph is added to this Section:

The warranties specified in this Section are in addition to any rights you may have under the Consumer Guarantees Act 1993 or other legislation which cannot be excluded or limited. The Consumer Guarantees Act 1993 will not apply in respect of any goods which IBM provides, if you require the goods for the purposes of a business as defined in that Act.

Limitation of Liability: The following is added to this Section: Where Machines are not acquired for the purposes of a business as defined in the Consumer Guarantees Act 1993, the limitations in this Section are subject to the limitations in that Act.

EUROPE, MIDDLE EAST, AFRICA (EMEA)

The following terms apply to all EMEA countries.

The terms of this Statement of Warranty apply to Machines purchased from an IBM reseller. If you purchased this Machine from IBM, the terms and conditions of the applicable IBM agreement prevail over this warranty statement.

Warranty Service

If you purchased an IBM Machine in Austria, Belgium, Denmark, Estonia, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland or United Kingdom, you may obtain warranty service for that Machine in any of those countries from either (1) an IBM reseller approved to perform warranty service or (2) from IBM.

If you purchased an IBM Personal Computer Machine in Albania, Armenia, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Georgia, Hungary, Kazakhstan, Kirghizia, Federal Republic of Yugoslavia, Former Yugoslav Republic of Macedonia (FYROM), Moldova, Poland, Romania, Russia, Slovak Republic, Slovenia, or Ukraine, you may obtain warranty service for that Machine in any of those countries from either (1) an IBM reseller approved to perform warranty service or (2) from IBM.

The applicable laws, Country-unique terms and competent court for this Statement are those of the country in which the warranty service is being provided. However, the laws of Austria govern this Statement if the warranty service is provided in Albania, Armenia, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Federal Republic of Yugoslavia, Georgia, Hungary, Kazakhstan, Kirghizia, Former Yugoslav Republic of Macedonia (FYROM), Moldova, Poland, Romania, Russia, Slovak Republic, Slovenia, and Ukraine.

The following terms apply to the country specified:

EGYPT: Limitation of Liability: The following replaces item 2 in this Section:

2. as to any other actual direct damages, IBM's liability will be limited to the total amount you paid for the Machine that is the subject of the claim.

Applicability of suppliers and resellers (unchanged).

FRANCE: Limitation of Liability: The following replaces the second sentence of the first paragraph of this Section:

In such instances, regardless of the basis on which you are entitled to claim damages from IBM, IBM is liable for no more than: (items 1 and 2 unchanged).

GERMANY: The IBM Warranty for Machines: The following replaces the first sentence of the first paragraph of this Section:

The warranty for an IBM Machine covers the functionality of the Machine for its normal use and the Machine's conformity to its Specifications.

The following paragraphs are added to this Section:

The minimum warranty period for Machines is six months.

In case IBM or your reseller are unable to repair an IBM Machine, you can alternatively ask for a partial refund as far as justified by the reduced value of the unrepaired Machine or ask for a cancellation of the respective agreement for such Machine and get your money refunded.

Extent of Warranty: The second paragraph does not apply.

Warranty Service: The following is added to this Section:

During the warranty period, transportation for delivery of the failing Machine to IBM will be at IBM's expense.

Production Status: The following paragraph replaces this Section:

Each Machine is newly manufactured. It may incorporate in addition to new parts, re-used parts as well.

Limitation of Liability: The following is added to this Section:

2-10 Zip Internal Drive User's Guide

The limitations and exclusions specified in the Statement of Warranty will not apply to damages caused by IBM with fraud or gross negligence and for express warranty.

In item 2, replace "U.S. \$100,000" with "1.000.000 DEM."

The following sentence is added to the end of the first paragraph of item 2:
IBM's liability under this item is limited to the violation of essential contractual terms in cases of ordinary negligence.

IRELAND: Extent of Warranty: The following is added to this Section:
Except as expressly provided in these terms and conditions, all statutory conditions, including all warranties implied, but without prejudice to the generality of the foregoing all warranties implied by the Sale of Goods Act 1893 or the Sale of Goods and Supply of Services Act 1980 are hereby excluded.

Limitation of Liability: The following replaces items one and two of the first paragraph of this Section:

1. death or personal injury or physical damage to your real property solely caused by IBM's negligence; and 2. the amount of any other actual direct damages, up to the greater of Irish Pounds 75,000 or 125 percent of the charges (if recurring, the 12 months' charges apply) for the Machine that is the subject of the claim or which otherwise gives rise to the claim.

Applicability of suppliers and resellers (unchanged).

The following paragraph is added at the end of this Section:
IBM's entire liability and your sole remedy, whether in contract or in tort, in respect of any default shall be limited to damages.

ITALY: Limitation of Liability: The following replaces the second sentence in the first paragraph:
In each such instance unless otherwise provided by mandatory law, IBM is liable for no more than: (item 1 unchanged) 2) as to any other actual damage arising in all situations involving non-performance by IBM pursuant to, or in any way related to the subject matter of this Statement of Warranty, IBM's liability, will be limited to the total amount you paid for the Machine that is the subject of the claim.

Applicability of suppliers and resellers (unchanged).

The following replaces the second paragraph of this Section:
Unless otherwise provided by mandatory law, IBM and your reseller are not liable for any of the following: (items 1 and 2 unchanged) 3) indirect damages, even if IBM or your reseller is informed of their possibility.

SOUTH AFRICA, NAMIBIA, BOTSWANA, LESOTHO AND SWAZILAND: Limitation of Liability: The following is added to this Section:
IBM's entire liability to you for actual damages arising in all situations involving nonperformance by IBM in respect of the subject matter of this Statement of Warranty will be limited to the charge paid by you for the individual Machine that is the subject of your claim from IBM.

TURKIYE: Production Status: The following replaces this Section:
IBM fulfils customer orders for IBM Machines as newly manufactured in accordance with IBM's production standards.

UNITED KINGDOM: Limitation of Liability: The following replaces items 1 and 2 of the first paragraph of this Section:

1. death or personal injury or physical damage to your real property solely caused by IBM's negligence;
2. the amount of any other actual direct damages or loss, up to the greater of Pounds Sterling 150,000 or 125 percent of the charges (if recurring, the 12 months' charges apply) for the Machine that is the subject of the claim or which otherwise gives rise to the claim.

The following item is added to this paragraph:

3. breach of IBM's obligations implied by Section 12 of the Sale of Goods Act 1979 or Section 2 of the Supply of Goods and Services Act 1982.

Applicability of suppliers and resellers (unchanged).

The following is added to the end of this Section:

IBM's entire liability and your sole remedy, whether in contract or in tort, in respect of any default will be limited to damages.

NORTH AMERICA

CANADA: Warranty Service: The following is added to this Section:

To obtain warranty service from IBM, call **1-800-565-3344**.

UNITED STATES OF AMERICA: Warranty Service: The following is added to this Section:

To obtain warranty service from IBM, call **1-800-772-2227**.

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Electronic emission notices

Zip Internal Drive

Federal Communications Commission (FCC) Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:


- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an IBM authorized dealer or service representative for help.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Proper cables and connectors are available from IBM authorized dealers. 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.

Responsible Party:

International Business Machines Corporation
New Orchard Road
Armonk, NY 10504
Telephone: 1-919-543-2193

 Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

Industry Canada Class B emission compliance statement

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

Avis de conformité à la réglementation d'Industrie Canada

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

Deutsche EMV-Direktive (electromagnetische Verträglichkeit)

Dieses Gerät ist berechtigt in Übereinstimmung mit dem deutschen EMVG vom 9.Nov.92 das EG-Konformitätszeichen zu führen.

Der Aussteller der Konformitätserklärung ist die IBM UK, Greenock.

Dieses Gerät erfüllt die Bedingungen der EN 55022 Klasse B.

European Union - emission directive

This product is in conformity with the protection requirements of EU Council Directive 89/366/ECC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

IBM can not accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended 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 B Information Technology Equipment according to CISPR 22 / European Standard EN 55022. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communication devices.

Union Européenne - Directive Conformité électromagnétique

Ce produit est conforme aux exigences de protection de la Directive 89/336/EEC du Conseil de l'UE sur le rapprochement des lois des États membres en matière de compatibilité électromagnétique.

IBM ne peut accepter aucune responsabilité pour le manquement aux exigences de protection résultant d'une modification non recommandée du produit, y compris l'installation de cartes autres que les cartes IBM.

Ce produit a été testé et il satisfait les conditions de l'équipement informatique de Classe B en vertu de CISPR22 / Standard européen EN 55022. Les conditions pour l'équipement de Classe B ont été définies en fonction d'un contexte résidentiel ordinaire afin de fournir une protection raisonnable contre l'interférence d'appareils de communication autorisés.

Unione Europea - Directiva EMC (Conformidad electromagnética)

Este producto satisface los requisitos de protección del Consejo de la UE, Directiva 89/336/CEE en lo que a la legislatura de los Estados Miembros sobre compatibilidad electromagnética se refiere.

IBM no puede aceptar responsabilidad alguna si este producto deja de satisfacer dichos requisitos de protección como resultado de una modificación no recomendada del producto, incluyendo el ajuste de tarjetas de opción que no sean IBM.

Este producto ha sido probado y satisface los límites para Equipos Informáticos Clase B de conformidad con el Estándar CISPR22 y el Estándar Europeo EN 55022. Los límites para los equipos de Clase B se han establecido para entornos residenciales típicos a fin de proporcionar una protección razonable contra las interferencias con dispositivos de comunicación licenciados.

Union Europea - Normativa EMC

Questo prodotto è conforme alle normative di protezione ai sensi della Direttiva del Consiglio dell'Unione Europea 89/336/CEE sull'armonizzazione legislativa degli stati membri in materia di compatibilità elettromagnetica.

IBM non accetta responsabilità alcuna per la mancata conformità alle normative di protezione dovuta a modifiche non consigliate al prodotto, compresa l'installazione di schede e componenti di marca diversa da IBM.

Le prove effettuate sul presente prodotto hanno accertato che esso rientra nei limiti stabiliti per le apparecchiature di informatica Classe B ai sensi del CISPR 22 / Norma Europea EN 55022. I limiti delle apparecchiature della Classe B sono stati stabiliti al fine di fornire ragionevole protezione da interferenze mediante dispositivi di comunicazione in concessione in ambienti residenziali tipici.

Korean B급 규격 증명서

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