

ThinkPad 8X CD-ROM Drive

Installation Guide

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About This Book

This book contains user information for the ThinkPad 8X CD-ROM drive option. This book is divided into three parts:

- Part 1 contains abbreviated installation instructions for the option in the following languages:

English	French
Brazilian	Italian
Portuguese	Japanese
German	
Spanish	

- Part 2 provides information on how to prepare for and install the option.
- Part 3 contains help and service information, specifications, warranty, notices, and trademark information.

Note: The illustrations in this book might be slightly different from your hardware.

Part 1. Quick Installation Guide

Quick Installation

This ThinkPad 8X CD-ROM drive is an IDE device that operates at up to eight times the standard CD-ROM speed. The following is an overview of the option installation instructions. For more detailed information and a list of supported systems, go to Part 2.

Use the following instructions to install the drive:

1. To install the drive in either the ThinkPad Dock I or II attached to IBM ThinkPad 760 E/EL/ED/ELD, obtain an IDE adaptation kit.

2. Installation depends on your operating system.

- **If you are installing under OS/2 V2.11:**

- a. Double-click on **Selective Install** in the **System Setup** folder.
- b. Select **Non-listed IDE CD-ROM** and click on **OK**.
- c. At the OS/2 Setup and Configuration menu, select **Install**.
- d. Follow the instructions on the screen to complete the installation.

- **If you are installing under OS/2 Warp:**

- a. Double-click on **Selective Install** in the **System Setup** folder.
- b. Select **Non-listed IDE CD-ROM** and click on **OK**.
- c. At the OS/2 Setup and Configuration menu, select **Install**.
- d. Follow the instructions on the screen to complete the installation.

- **If you are installing under Microsoft Windows 95:**

- a. Comment out the line
DEVICE=C:\xxxxxx\IBMTPCD.SYS /D:TPCD001 /P:170
/R in the CONFIG.SYS file.
- b. Comment out the line C:\xxxxxx\MSCDEX.EXE
/D:TPCD001 /M:15 in the AUTOEXEC BAT file.
- c. Reboot the system.

- **If you are installing under DOS:**

- a. Insert the Option Diskette into the diskette drive.
- b. Type A:.
- c. Type UINSTALL.
- d. Follow the instructions on the screen.

Chapter 1. ***Product Description***

This ThinkPad 8X CD-ROM drive is an IDE device that operates at up to eight times the standard CD-ROM speed.

The applicable systems for the drive are:

- IBM ThinkPad Dock I docking station
- IBM ThinkPad Dock II docking station
- IBM ThinkPad SelectaDock I
- IBM ThinkPad SelectaDock II
- IBM ThinkPad 760 models that support a CD-ROM drive (See the *User's Guide* supplied with your computer.)

Chapter 2. ***Installation Requirements***

IBM ThinkPad Dock I and Dock II

To install the 8X CD-ROM drive in either the ThinkPad Dock I or ThinkPad Dock II docking station, you must obtain an IBM ThinkPad 4X CD-ROM drive adapter (or optional 4X CD-ROM adapter) package. The package provides a user's guide that explains how to install and use the drive. In the user's guide, the 8X CD-ROM drive is described as a "4X CD-ROM drive."

IBM ThinkPad Dock I and Dock II Attached to IBM ThinkPad 760 E/EL/ED/ELD

To install the 8X CD-ROM drive in either the ThinkPad Dock I or ThinkPad Dock II attached to IBM ThinkPad 760 E/EL/ED/ELD, you must obtain an IDE adaptation kit.

Chapter 3. Installing Device Drivers

The following table provides additional information to help you determine which device driver to use when you install the CD-ROM drive, depending on the operating system that you will be using:

Operating System	What You Need to Do
<ul style="list-style-type: none"> OS/2 V2.11 	You need to install a CD-ROM device driver. See "OS/2 V2.11" on page 2-3.
<ul style="list-style-type: none"> OS/2 Warp Windows 95 	The device driver that is a part of the operating system works with this CD-ROM drive. See "OS/2 Warp" on page 2-3 or "Windows 95" on page 2-4.
<ul style="list-style-type: none"> PC DOS V7.0 MS-DOS V6.22 Windows for Workgroups V3.11 	You need to install a CD-ROM device driver. See "DOS" on page 2-5.

When you turn your computer on after installing the IBM ThinkPad 8X CD-ROM drive, your system recognizes the drive. Before using the drive with your application programs, you must first install device drivers. The following table lists the names of the affected files:

Device Driver for OS/2	IBMIDECD.FLT OS2CDROM.DMD IBM1S506.ADD
File System for OS/2	CDFS.IFS
Device Driver for DOS and Windows	IBMTPCD.SYS
File System for DOS and Windows	MSCDEX.EXE (MS-DOS CD-ROM Extensions)

Install the CD-ROM device driver required by your operating system.

Note: If you want to use the CD-ROM drive to install the operating system, refer to the operating system documentation.

OS/2 V2.11

This section describes how to install the CD-ROM device driver for OS/2 V2.11. Have the Option Diskette that came with this option ready; then do the following:

1. Turn on the computer; then start OS/2.
2. Double-click on the **OS/2 System** icon.
3. Double-click on the **System Setup** icon.
4. Double-click on the **Selective Install** icon.
5. Select **CD-ROM Device Support**; then click on **OK**.
6. Select **Non-listed IDE CD-ROM** and click on **OK**; then click on **OK** again at the System Configuration menu.
7. At the OS/2 Setup and Configuration menu, select **Install**.
8. Follow the instructions on the screen.

Note: However, do not shut down the system when the screen instructions prompt you to. Do the following steps instead.

9. Insert the Option Diskette shipped with this option into the diskette drive.
10. Double-click on the **Device Driver Install** icon in the **System Setup** menu screen.
11. Verify the source directory for the device driver (A:); then follow the instructions on the screen to complete the installation.

You have completed the modifications required for the CD-ROM device driver.

OS/2 Warp

Note: Do not use the Option Diskette shipped with this option for installing device drivers for OS/2 Warp. Use the device drivers included with OS/2 Warp.

To install the CD-ROM device driver for OS/2 Warp, do the following:

1. Turn on the computer; then start OS/2 Warp.
2. Double-click on the **OS/2 System** icon.
3. Double-click on the **System Setup** icon.
4. Double-click on the **Selective Install** icon.
5. Select **CD-ROM Device Support**; then click on **OK**.
6. Select **Non-listed IDE CD-ROM** and click on **OK**; then click on **OK** again at the System Configuration menu.
7. At the OS/2 Setup and Configuration menu, select **Install**.
8. Follow the instructions on the screen to complete the installation.

Software Parameters in the CONFIG.SYS File

When the CD-ROM device driver is installed in your computer, OS/2 automatically modifies the CONFIG.SYS file. The following describes the parameters for the CD-ROM device driver:

- `DEVICE=OS2CDROM.DMD [options]`

This is the CD-ROM device class driver, where *options* can be:

- [/V] Displays messages on the computer screen during the installation.

[/Q] Does not display messages on the computer screen during the installation.

- BASEDEV=IBMIDEC.D.FLT [*options*]

This is the IDE adapter device driver for ATA Packet Interface devices, where *options* can be:

[/V] Displays messages on the computer screen during the installation.

- IFS=[*drive*]:[*path*]CDFS.IFS [*options*]

This is the ISO9660/HSG file system for OS/2. All CD data discs are recorded with this file format. *Options* can be:

[/C:*n*] Indicates how many 64KB segments to use for the sector cache. The default is *n*=2, two 64KB segments.

[/M:*n*] Indicates the maximum number of file sectors to be read at a time. The default is *n*=8, eight sectors.

[/V] Displays messages on the computer screen during the installation.

[/Q] Does not display messages on the computer screen during the installation.

You have completed the modifications required for the CD-ROM device driver.

Windows 95

Windows 95 comes with a generic ATAPI CD-ROM device driver that works with your ThinkPad's CD-ROM. The generic Windows 95 CD-ROM device driver is automatically installed if you do not upgrade from DOS or Windows, or if you upgrade from DOS or Windows *but* without the IBM CD-ROM device driver. If you are upgrading from DOS or Windows 3.1 to Windows 95, the original device driver for DOS or Windows must be disabled for the Windows 95 device driver to become effective.

To enable the Windows 95 generic ATAPI CD-ROM device driver, do the following:

1. Go to the MS-DOS command prompt.
2. Open the CONFIG.SYS file.
3. Find the following line:

```
DEVICE=C:\xxxxxx\IBMTPCD.SYS /D:TPCD001 /P:170 /R
```

xxxxxx is the subdirectory where you have installed the CD-ROM device driver. If you cannot find the line, quit the file and go to step 5.

4. Comment out the line to change it as follows:

```
REM DEVICE=C:\xxxxxx\IBMTPCD.SYS /D:TPCD001 /P:170 /R
```

If the line is already commented out, quit the file and go to the next step.

5. Open the AUTOEXEC.BAT file.

6. Find the following line:

```
C:\xxxxxx\MSCDEX.EXE /D:TPCD001 /M:15
```

xxxxxx is the subdirectory where you have installed the CD-ROM device driver. If you cannot find the line, quit the file and go to step 8.

7. Comment out the line to change it as follows:

```
REM C:\xxxxxx\MSCDEX.EXE /D:TPCD001 /M:15
```

If the line is already commented out, quit the file and go to the next step.

8. Exit the MS-DOS command prompt; then reboot the system.

You have completed the modifications required for the CD-ROM device driver.

DOS

To install the CD-ROM device driver for DOS V6.3 or later:

1. Turn on the computer.
2. Insert into the diskette drive the Option Diskette shipped with the CD-ROM drive.
3. Type A:; then type UINSTALL.
4. Follow the instructions on the screen to complete the installation.
5. After the installation is complete, remove any diskette from the diskette drive and restart the system.

You have completed the installation of the CD-ROM device driver for DOS.

Software Parameters in the CONFIG.SYS File

When the CD-ROM device driver is installed in your computer, UINSTALL automatically modifies the CONFIG.SYS file or the AUTOEXEC.BAT file. The following are the parameters for the CD-ROM device driver:

- `DEVICE=[drive:][path]IBMTPCD.SYS [/C] [/S]`

IBMTPCD.SYS is the CD-ROM device driver. Make sure this line is inserted after the EMM386 statement. If you are using the Multiple Configurations option, copy or move the DEVICE= line to the configuration blocks to enable or disable the CD-ROM drive according to the configurations.

[/C] Sets the cache size in the XMS memory. When this parameter is set, the cache size in the XMS memory is 512 sectors. When it is not set, the default is 0.

[/S] Sets the power-saving mode to OFF. When using DOS with another operating system (for example, when using it with OS/2 in dual boot), set the power-saving mode to OFF using this parameter.

Note: Do not specify the **[/R]** parameter for this option.

- `[drive:][path]MSCDEX.EXE /D:TPCD001
[/M:n][/E][/V][/L:x]`

The Microsoft CD-ROM Extensions program (MSCDEX.EXE) for MS-DOS Version 3.11 or later works with the IBMTPCD.SYS device driver to allow your computer to access the CD-ROM drive, where the options can be:

- /D** Specifies the name of the CD-ROM drive, TPCD001.
- [/M:n]** Specifies the number of sector buffers to store the most recent disc data temporarily. The default is $n=4$.
- [/E]** Specifies that the computer will use expanded memory, if available.
- [/V]** Displays on the computer screen a summary of RAM allocation and expanded memory usage at power-on.
- [/L:x]** Specifies the drive letter (represented here by x) for the CD-ROM drive. Be sure not to assign a drive letter already used by another drive; otherwise, the computer cannot access the CD-ROM drive.

If you are using the Multiple Configurations option, copy or move the MSCDEX.EXE statement to the configuration blocks to enable or disable the CD-ROM drive according to the configurations.

- SMARTDRV

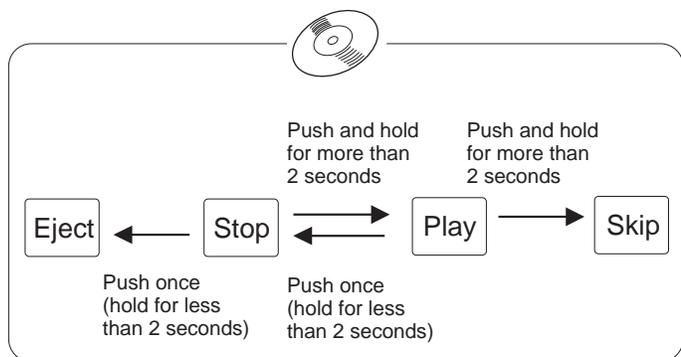
If you are using DOS SMARTDRV caches and planning to use a photo CD or multiple session discs, you have to add the **/U** parameter to the SMARTDRV line in the AUTOEXEC.BAT file. This is because photo CDs or multiple session discs are not compatible with the SMARTDRV caches.

If you are planning to play CD-I movies, do not cache the CD-ROM drive with the SMARTDRV Version 5.0 or 5.1, which is supplied with PC DOS Version 7.0.

Chapter 4. Playing a CD Using the Eject Button

Before playing a CD using the eject button, the sound features must be enabled in your operating system. To enable the features, refer to the documentation that came with your operating system.

You can play and stop the CD in the drive using the eject button as follows:



Function	Operation by the CD-ROM drive eject button
To play a CD	Push and hold the button for more than 2 seconds
To skip to the next track	Push and hold the button for more than 2 seconds
To stop playing the CD	Push and hold the button for less than 2 seconds
To eject the CD	Push and hold the button for less than 2 seconds

Appendix A. Help and Service Information

Before calling, please prepare for your call by following these steps.

Step 1: Troubleshooting

You might be able to solve the problem yourself. Before calling IBM, you might want to try some or all of the following troubleshooting procedures:

1. Remove and reattach all option cables.
2. Remove and reseal the option.
3. Place the option in a different slot, if one is available.
4. If your option contains jumpers or switches, check that they are set as specified.
5. Reread any software instructions; verify that software settings are correct.
6. Inspect the option for damage, such as bent pins.
7. Check the computer manual for instructions about the installation of upgrades. Look for a section about system setup or system configuration. Follow all procedures.
8. After completing these steps, reassemble the computer and connect the power cord.

Step 2: Preparing for the Call

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

1. Computer manufacturer and computer model
2. Option name: IBM ThinkPad 8X CD-ROM Drive
3. Proof of purchase
4. Exact wording of the error message (if any)
5. Description of the problem
6. 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.

Step 3: Placing the Call to IBM

Technical support is available during the warranty period to answer any questions about your new IBM option¹.

For the support telephone number and support hours by country, use the following table. For other countries, contact your IBM reseller or IBM marketing representative.

<i>Support 24 hours a day, 7 days a week</i>	
Canada	1-800-565-3344
Puerto Rico	1-800-772-2227
United States	1-800-772-2227

Appendix B. ***Product Specifications***

Dimensions:	Width: 131 mm (5.16 in.) Depth: 144.5 mm (5.69 in.) Height: 19 mm (0.75 in.)
Weight:	360 g (0.79 lb)
Front panel:	Eject button Emergency eject hole Access indicator
Power requirements:	5 V dc $\pm 5\%$
Power consumption:	1.5 A maximum
Buffer size:	128 KB
Data transfer rate:	1200 KB per second (8X speed)
Average access time:	190 ms
Supporting discs:	CD-DA, CD-ROM, CD-ROM XA (form-1 and form-2) Multisession disc, CD-I, video CD, CD Extra

¹ Response time will vary depending on the number and nature of calls received.

Appendix C. Product Warranty

The following warranty information applies to products purchased in the United States, Canada, and Puerto Rico. The warranty terms and conditions for products purchased in other countries are available from IBM or your reseller.

International Business Machines Corporation

Armonk, New York, 10504

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The warranties provided by IBM in this Statement of Limited Warranty apply only to Machines you originally 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. Unless IBM specifies otherwise, the following warranties apply only in the country where you acquire the Machine. If you have any questions, contact IBM or your reseller.

Machine: IBM ThinkPad 8X CD-ROM Drive

Warranty Period*: One Year

**Contact your place of purchase for warranty service information.*

Production Status

Each 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 warranty terms apply.

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 receipt is the Date of Installation, unless IBM or your reseller informs you otherwise.

During the warranty period IBM or your reseller, if authorized by IBM, will provide warranty service under the type of service designated for the Machine and will manage and install engineering changes that apply to the Machine.

For IBM or your reseller to provide warranty service for a feature, conversion, or upgrade, IBM or your reseller may require that the Machine on which it is installed be 1) for certain Machines, the designated, serial-numbered Machine and 2) at an engineering-change level compatible with the feature, conversion, or upgrade. Many of these transactions involve the removal of parts and their return to IBM. You represent that all removed parts are genuine and unaltered. A part that replaces a removed part will assume the warranty service status of the replaced part.

If a Machine does not function as warranted during the warranty period, IBM or your reseller will repair it or replace it with one that is at least functionally equivalent, without charge. The replacement may not be new, but will be in good working order. If IBM or your reseller is unable to repair or replace the Machine, you may return it to your place of purchase and your money will be refunded.

If you transfer a Machine to another user, warranty service is available to that user for the remainder of the warranty period. You should give your proof of purchase and this Statement to that user. However, for Machines which have a life-time warranty, this warranty is not transferable.

Warranty Service

To obtain warranty service for the Machine, you should contact your reseller or call IBM. In the United States, call IBM at **1-800-426-7299**. In Canada, call IBM at **1-800-565-3344**. You may be required to present proof of purchase.

IBM or your reseller will provide certain types of repair and exchange service, either at your location or at IBM's or your reseller's service center, to restore a Machine to good working order.

When a type of 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. 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 ensure that the Machine is free of any legal obligations or restrictions that prevent its exchange.

You agree to:

1. obtain authorization from the owner to have IBM or your reseller service a Machine that you do not own; and
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 - a. follow the problem determination, problem analysis, and service request procedures that IBM or your reseller provide,
 - b. secure all programs, data, and funds contained in a Machine, and
 - c. 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.

Extent of Warranty

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

The warranties may be voided by misuse, accident, modification, unsuitable physical or operating environment, improper maintenance by you, removal or alteration of Machine or parts identification labels, or failure caused by a product for which IBM is not responsible.

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Appendix D. *Notices*

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Warranty

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General

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Neither party may bring an action, regardless of form, more than two years after the cause of action arose.

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