PX-750

Model PX-750A Internal ATAPI Drive
Model PX-750UF External
USB/FireWire Drive

DVD±R DL (DOUBLE LAYER/DUAL LAYER),
DVD±R/RW, DVD-RAM, CD-R/RW DRIVE

INSTALLATION AND USERS MANUAL

JANUARY 2006

Plextor reserves the right to make improvements in the products described in this manual at any time without prior notice.

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First edition, January 2006.

Licenses and Trademarks

Record Your Serial Number

For future reference, record the serial number and the TLA code (found on your drive's label) in the space provided below.

TLA/Firmware Revision Number

FEDERAL COMMUNICATIONS COMMISSION STATEMENT

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.

CAUTION: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CANADIAN DEPARTMENT OF COMMUNICATIONS STATEMENT

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme a la norme NMB-003 du Canada.

LASER INFORMATION

These products have been designed and manufactured according to IEC 60825-1 on the Safety of Laser products. This product comes under “Class 1 Laser Products.”

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

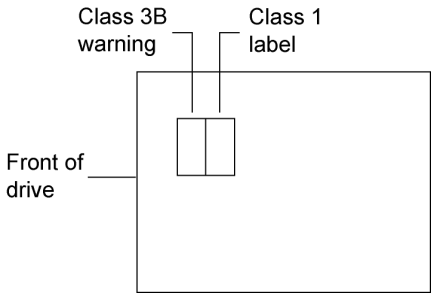
A Laser Caution Label is attached on the top of the internal drive model, and the bottom of the external drive model.

The laser beam emitted from the optical pickup is visible and invisible. Accordingly:

- Do not open the optical pickup housing.
- Obtain service only from Plextor-authorized personnel.

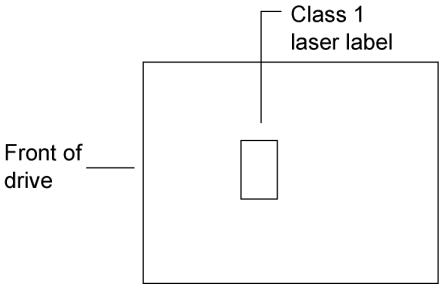
CAUTION: To disconnect the internal DVD/CD drive from an electrical current, pull out the computer’s power plug. To disconnect the external DVD/CD drive, pull out the plug of the AC adapter.

Top View of Internal Drive, Showing Caution Label Location



Detail of PX-750A Laser Caution Labels

Bottom View of External Drive, Showing Caution Label Location



Detail of PX-750UF Laser Caution Label

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1. Getting Started

Congratulations! Thank you for purchasing the Plextor® PX-750, a reliable, high-performance recordable DVD and CD writer, rewriter, and player. We appreciate the confidence you have shown in us. Our goal is to put you—and keep you—on the leading edge of DVD and CD technology.

About this Manual

Please read this manual carefully and keep it handy for easy reference. Use the manual for installation, operation and troubleshooting. If your drive needs service, see your dealer or call Plextor's Technical Support Department.

What's In This Manual

In this manual you should find all the information you need to successfully install, operate and troubleshoot your drive. If you run into a problem that doesn't seem to be covered, however, please contact us. (See "Appendix B: Technical Support" for the different ways you can reach us.) You will be connected to our friendly, helpful band of tech support engineers. What might seem like an uncooperative drive to you could very well be a 30-second fix to them. But we will never know unless you contact us.

Printing the Manual

This manual has been sized for viewing on a computer monitor screen.

To print a hard copy of this manual:

1. In Acrobat, select File | Print. You see the Print dialog box.
2. In the Print dialog box, choose the printer.
3. If you want to print on standard 8-1/2 x 11 paper, you can check the Expand small pages to paper size box. This expands the manual's pages so they nearly fill up a standard-sized page.
4. When you have made your selections, click OK. The manual is printed.

Meet Your PX-750

The PX-750 is a DVD ReWritable/CD ReWritable drive that provides professional quality DVD and CD performance for writing, rewriting and reading.

What the PX-750 Does

For DVDs, the PX-750:

- Writes DVD+R ("plus" format) and DVD-R ("dash" format) media at up to 16X speed.
- Writes DVD+R DL (double layer) and DVD-R DL (dual layer) media at up to 8X speed.

  NOTE: DVD-R DL 8X writing will be supported by a future firmware upgrade.

- Writes DVD-RAM discs at up to 5X speed.
- Writes DVD+RW (rewritable DVD, "plus" format) media at up to 8X speed.
- Writes DVD-RW (rewritable DVD, "dash" format) media at up to 6X speed.
- Supports DVD+VR and DVD-VR format for read and write.
- Reads stamped DVD discs at up to 16X.

  NOTE: Depending on the USB chipset used in your computer, the PX-750UF's DVD read speed may be limited to 14X maximum with USB 2.0 only. Maximum IEEE 1394/FireWire read speed remains 16X.

- Reads DVD-RAM discs at up to 5X.

For CDs, the PX-750:

- Writes to CD-R (recordable CD) media at up to 40X speed.
- Writes to CD-RW (rewritable CD) media at up to 24X speed.
- Reads all CD-ROM, CD-RW, and CD-R data media at a maximum of 40X speed.
- Reads CD-DA (audio) and CD-R audio media at up to 40X speed.
- Reads CD-RW audio media at up to 40X speed.

Features of the PX-750

- *Internal ATAPI or external USB/FireWire interface:*
  - The PX-750A internal drive easily installs in virtually any PC with an E-IDE ATAPI interface.
  - The PX-750UF external drive features both USB 2.0 and FireWire® (IEEE 1394), to connect to a PC or Macintosh computer with either of these high-speed interfaces. Supports both Hi-Speed USB 2.0 (480 megabits per second) and Full-Speed USB 1.1 (12 megabits per second).
- *High speed transfers*: The PX-750 supports data transfers via Ultra DMA Mode 4, DMA Mode 2, and PIO Mode 4.
- *MMC compliance*: Supports the MMC-3 command set.
- *Flash memory*: Allows upgrading the PX-750 to the latest firmware revision (available free from the Plextor web site) without opening the computer or the drive.
- *Black tray*: Reduces the effect of optical distortion by absorbing reflections from the laser beam, enhancing read quality.
- *Plug and Play*: Supports Windows Plug and Play.
- *Digital and analog audio outputs in the PX-750A*: The PX-750A has output connectors for both digital (SPDIF) and analog audio output.
- *CPRM support*: The PX-750 supports Content Protection for Recordable Media, so you can play CPRM copy-controlled media.
- *Small form factor*: To save space inside your computer, depth of the PX-750A is just 6.69 inches (170 millimeters), including the bezel.

DVD Features

- *Lossless linking for DVD+R/RW and DVD+R DL*: Allows DVD+RW discs to be edited and still play on DVD-ROM players.
- *Zero Link for DVD-R/RW, DVD-R DL*: Has 0 byte gap between sessions so the discs are compatible with all players. This allows DVD-RW discs to be edited and still play on DVD-ROM players.
- *Double layer and dual layer DVD discs*: Reads and writes DVD+R DL (double layer) and DVD-R DL (dual layer) discs, so you can burn up to 4 hours of high quality MPEG-2/DVD video on a single 8.5-gigabyte DVD disc.
- *Wide media compatibility*: Compatible with a wide range of DVD-RAM, DVD±R and DVD±RW media.
- *DVD Multi Recorder*: Supports the DVD Multi specification for read and write; can read and write DVD-RAM, DVD-ROM, DVD-Video, multi-border, multi-session and DVD±VR.
- *Versatile recording modes for DVD+R/RW*: Including disc-at-once (DAO) for DVD+R DL (double layer) discs; DAO, multi-session, and incremental write for DVD+R; and sequential write for DVD+RW.
- *Recording versatility for DVD-R/RW, too*: Including disc-at-once (DAO) for DVD-R DL (dual-layer); DAO and multi-border recording for DVD-R; and DAO, multi-border recording, and restricted overwriting for DVD-RW.

CD-R and CD-RW Features

- *Variety of recording modes*: Supports track-at-once, disc-at-once, session-at-once, multi-session, variable and fixed packet writing, and CD-MRW (Mount Rainier).
- *Buffer Underrun Proof Technology*: Eliminates buffer underrun errors, so you can safely use your computer for other tasks while you're writing to a CD-R or CD-RW disc.
- *Wide compatibility*: Wide CD-R and CD-RW media compatibility.

- *Orange Book compatibility*: Compatible with Orange Book, Parts II and III.
- *OPC and ROPC*: Optimum Power Control and Running Optimum Power Control, which adjust the laser power for the optimum write strategy.
- *CD-TEXT, CD+G*: Supports CD-TEXT for read and write. Supports CD+G reading.

Minimum Configuration to Use the PX-750

Here's what you'll need in order to install and use the PX-750 drive.

- **Computer**:
  - **PX-750A**: Pentium 4, 1.4-GHz or faster CPU.
  - **PX 750UF**: Pentium 4, 1.4-GHz or faster CPU; or Power Macintosh G3 or later (G4 or higher recommended)
- **Minimum RAM**: 256 MB.
- **Interface**:
  - **PX-750A**: IDE ATAPI interface.
  - **PX-750UF**: USB (2.0 or 1.1) or IEEE 1394 (FireWire) interface. (On-board USB 2.0 or IEEE 1394 host controller recommended.)
- **Hard disk size**: To write to a CD in image mode (that is, to write an image of a CD to your hard disk), you need 1 GB of free space. For a DVD, 10 GB of free space is recommended. (For more accurate guidelines, see the help files or documentation for the recording software you're using.)
- **Operating System**:
  - **PX-750A**: Requires Windows XP or 2000.
  - **PX-750UF**: Requires Windows XP or 2000; or Mac OS X for Macintosh.

MACINTOSH NOTE: The PX-750UF drive is compatible with Macintosh computers running Mac OS X or higher. Note that Apple Computer applications generally do not support non-Apple CD or DVD recorders. A Macintosh-compatible third-party recording application, such as Roxio Toast Titanium 6, will provide authoring and recording capability. See Roxio.com, for example.

What You Can Do with the PX-750

Just look at some of the things you can do with your PX-750:

- Record slide shows or digital video onto DVD-RAM, DVD+R DL, DVD-R DL, DVD+R, DVD-R, DVD+RW and DVD-RW discs.
- Play DVD-RAM, DVD-ROM, DVD+R DL, DVD-R DL, DVD+R, DVD+RW, DVD-R, and DVD-RW discs.
- Write onto DVD-RAM discs with your set-top box and read the discs with your Plextor drive; or write to DVD-RAM with the Plextor drive, then read those discs on your set-top box.
- Record data or audio onto writable or rewritable CD media.
- Play music CDs.
- Save photos and other images on rewritable or writable CDs.
- Create a CD or DVD "sneakernet" to share information with colleagues—just use software such as Roxio's Drag-to-Disc to drag and drop files onto DVD+R, DVD+RW, CD-R or CD-RW media, then continue adding files and sharing the same disc.
- Archive images and video to DVD or CD.
- Master new software programs on DVD or CD.

About Software

In order to record on DVD±R DL, DVD±R/RW, and CD-R/RW discs you will need to have mastering, packet writing, or duplication software installed on your computer system. If you purchased a retail kit from Plextor, you'll get software packages that include such software.

Roxio's Easy Media Creator software is one software suite that lets you burn DVDs and CDs. The software lets you burn and share anything on CD or DVD, including music, photos, and videos; and you can easily back up your critical data to a CD or DVD. One component of Roxio is Drag-to-Disc, which makes the Plextor PX-750 drive as easy to use as a hard disk drive. (For more information about Roxio, install this application and examine the help files.)

For details on software that is available for writing to DVDs or CDs, please visit the web sites of the companies whose software you are interested in, refer to their user's manuals, or look at the help option within the software. A list of various software that you can use with your Plextor drive can be found in the Support/Compatibility section of www.plextor.com.

Precautions

Like the rest of your computer system, your PX-750 requires reasonable care in its installation and use.

- Keep the area around your drive clean from dust, smoke, and other contaminants.
- Do not allow moisture or liquids, including water or cleaning fluids, to touch the drive. Thinner, benzene, or alcohol-based solvents can mar your drive's surface.
- Do not drop or jolt the drive.
- Do not move, carry or transport a disc in the drive because this can cause damage.
- Do not attempt to open the drive and service it yourself. Removing the cover may expose you to harmful electrical voltages or the laser beam. For your safety, entrust service to experienced service personnel only.
- Keep your DVDs and CDs free of dirt or other contaminants, by storing them in jewel cases. Use only industry-standard discs. Do not insert dirty, warped, poorly balanced, or cracked discs into the drive.

- Do not clean discs using a circular motion. Instead, using a soft, dry cloth, wipe gently in a radial motion; start at the center of the disc and proceed to the outer edge.
- Do not attempt to clean your drive using solvent-based cleaners or an air compressor.
- Do not attempt to clean your drive using a CD cleaning disc. These discs can damage your drive permanently.

Where to Go From Here

- If you have a PX-750A internal ATAPI drive, see Section 2, beginning on page 9, to learn how to install your drive.
- If you have a PX-750UF external drive, see Section 3, beginning on page 35, to install it.

2. Installing the PX-750A Internal ATAPI Drive

This section explains how to physically install your PX-750A internal ATAPI drive in your computer.

PX-750A Drive Features and Controls

Before proceeding, become familiar with the controls and features of your Plextor drive. Match the parts of your drive to the illustrations below.

Front Panel—PX-750A Internal Drive

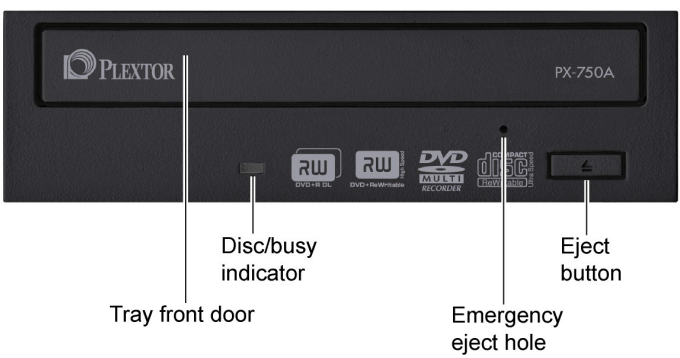


Figure 1: Front panel of the PX-750A internal ATAPI drive

- **Tray front door**: Attached to disc tray drawer.
- **Disc/busy indicator**: Illuminated green for disc reading, blinking green for writing.

- **Emergency eject hole**: If the automatic eject button does not work, insert the emergency eject tool, paper clip, or other thin, rigid object in this hole to eject tray. Turn OFF power before using this feature.

- **Eject button**: Push once to eject tray. Push again to insert the tray back into the PX-750A. To prevent wear on the drive, always use the eject button to insert the tray.

Rear Panel—PX-750A Internal Drive

Also familiarize yourself with the drive's rear panel.

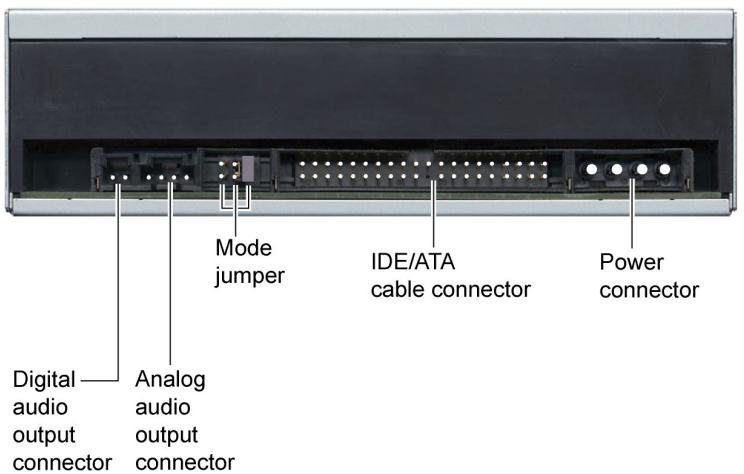


Figure 2: Rear panel of the PX-750A internal ATAPI drive

- **Digital audio output connector**: Outputs a digital stereo signal. Use this to connect to a sound board that supports Sony/Philips Digital Interface (SPDIF) or Digital-In.

- **Analog audio output connector**: Outputs an analog stereo signal. Use this to connect to a sound board or audio amplifier. Use a standard MPC-3 type, 4-pin connector.

- **Mode jumper**: Use the mode jumper to select operation as an IDE master or slave, or for cable select. In general, leave this jumper at its factory setting, which is master; and ensure that any other device on the bus is jumpered as slave.

- **IDE cable connector**: Connects to your computer's IDE (ATAPI) interface using 80-conductor Ultra cable.

  NOTE: Although the PX-750A will operate with a 40-wire IDE cable, it may not be able to write DVDs at 16X unless an 80-conductor IDE/ATA cable is used.

- **Power connector**: Connects to your computer's power supply to provide DC +5 volts and +12 volts to the PX-750A.

What Else Is In the PX-750A Box

What you find in your Plextor box depends on what the company that sold you the box put in—or took out—while the Plextor drive was in their possession. Plextor currently sells the PX-750A drive in this configuration:

- PX-750A DVD±R DL, DVD-RAM, DVD±R/RW and CD-R/RW drive
- Replacement front bezel(beige) and disc tray front panel
- 80-conductor IDE/ATA cable
- 4 mounting screws
- Extra jumper
- Emergency eject tool
- Plextor software disc with a PDF file of the *PX-750A Installation and Users Manual*. Also contains Roxio's Easy Media Creator.
- Drive *Quick Installation Guide*

Save Your Box!

Be sure to save the box after you have installed your drive. The box and its packaging material were designed and drop tested to ensure your drive can endure rough treatment and still arrive in working order. If you have to ship your drive back to Plextor, you'll want to send it in the original box. (For more details about returning your drive to Plextor, see page 89.)

If the security sticker on top of your box is cut, there may be a good reason: for example, a dealer may have added other components or software. Carefully check the contents to ensure nothing has been removed. If something is missing, contact the party from whom you purchased the box for an explanation.

NOTE: This applies to the Plextor retail box. Your drive may have been shipped in a different box with other contents, depending on whom you purchased the drive from and what they included inside the box.

If your drive came pre-installed, some or all of the items above may have been installed and may not be separately available. See the Plextor web site for locations to purchase additional or replacement accessories.

PX-750A QuickStart Installation
For Experienced PC Users Only

If you've installed computer peripherals before, use this QuickStart installation to get up and running quickly.

IMPORTANT NOTE: To ensure maximum writing speed, you must connect the PX-750A to an 80-conductor IDE/ATA flat ribbon cable. (This newer 80-conductor ribbon cable is physically interchangeable with the 40-conductor cable found in older computers.) The Plextor-supplied cable is an 80-conductor cable.

Typical Scenario 1: You have a PC with an IDE interface installed, you have Windows 2000 or XP, and you have nothing installed on the secondary IDE port. **What to do**: Leave the PX-750A's jumper set to Master, attach it to the secondary IDE port, and go. Windows will recognize the drive automatically.

Typical Scenario 2: You have a PC with an IDE interface installed, you have Windows 2000 or XP, the primary IDE port already has two devices connected and you have a CD-ROM installed on the secondary IDE port. **What to do**: Change the CD-ROM to Slave, leave the PX-750A's jumper set to Master and attach the PX-750A to the secondary IDE port. Windows recognizes the new drive automatically.

If neither of these situations applies to you, or you're not comfortable with IDE installation, read the rest of this section for more detailed installation instructions.

Mount the PX-750A Drive

Here's an overview of what you'll do to mount the drive:

1. Turn OFF your computer system.
2. Set the jumpers for your new PX-750A drive, if necessary.
3. Mount the drive into an available drive bay inside the computer system.
4. Make all necessary cabling connections: IDE cable, power cable, and audio cable.
5. Turn your computer system ON.

The following pages give more details for this procedure.

Open the Computer and Prepare for Installation

To determine whether your PX-750A will be a Master or a Slave, open your computer and examine the IDE connections to the motherboard.

To open the computer:

1. Before proceeding, make sure the power to your computer and any external peripherals is OFF and your computer is UNPLUGGED from its power source.

2. Remove your computer's cover, following the directions provided by your computer's manufacturer. Typically, this involves loosening or removing several screws on the back panel of your computer and sliding off the cover. See Figure 3 for an example.

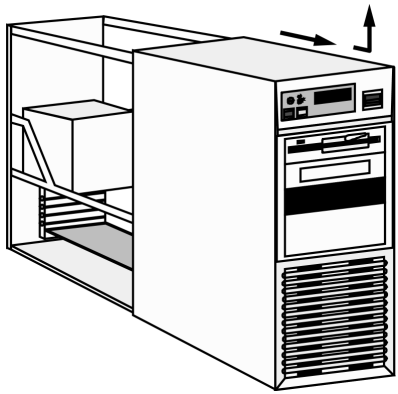


Figure 3: Removing a typical computer's cover

Determine Your Existing IDE Configuration

With your computer open, determine the existing IDE configuration. You can do this by looking at the IDE ribbon cable (or cables—there may be two) and seeing what is connected to them.

One end of the IDE cable connects to the IDE port on your computer's motherboard; and there are usually two other connectors for attaching peripheral devices such as a hard disk, DVD or CD-ROM drive, or your PX-750A drive. If there are two devices, one is configured as *Master* and the other the *Slave,* as indicated by the position of jumpers on the back of the drive.

If your computer is set up for Cable Select, or CSEL, both devices will be jumpered as *Cable Select*. In older computers, this configuration required a special Cable Select cable.

If there are two IDE cables, one is for the *primary* IDE bus and the other is for the *secondary* bus.

Before you install your PX-750A, your computer's IDE configuration is usually one of the following:

- **Configuration A**: Hard disks connected as Master and Slave devices on primary IDE port; DVD or CD-ROM drive connected as the Master device on secondary IDE port.
- **Configuration B**: Hard disk connected as Master device and DVD or CD-ROM drive connected as Slave on the primary IDE port; nothing connected to secondary IDE port.
- **Configuration C**: Hard disk connected as Master device on primary IDE port; nothing connected to secondary IDE port.
- **Configuration D**: System uses special "Cable Select" cables; all devices are jumpered for Cable Select.

Inspect Your Computer's Cables

To ensure that it can write at maximum rated speed (16X), you should make sure the PX-750A is connected to an 80-conductor IDE/ATA flat ribbon cable. If you have an older computer, it may still be equipped with a 40-conductor cable.

NOTE: Although the newer IDE/ATA cable has 80 conductors (wires), its connectors have only 40 pins, so it's physically interchangeable with the older cable. And in fact, your PX-750A drive **may** work fine with a 40-conductor cable. But to ensure writing at maximum speed, it's best to use the newer 80-conductor cable, such as the one provided by Plextor. The 80-conductor cable cancels interference much better than the older model, allowing faster data transfers.

CAUTION: The length of any IDE cable cannot exceed 18 inches.

Confirm That You Have an 80-Conductor IDE Cable

How can you tell? The 80-conductor cable is slightly wider than the older 40-conductor version. The wires in the 80-conductor version are narrower, too.

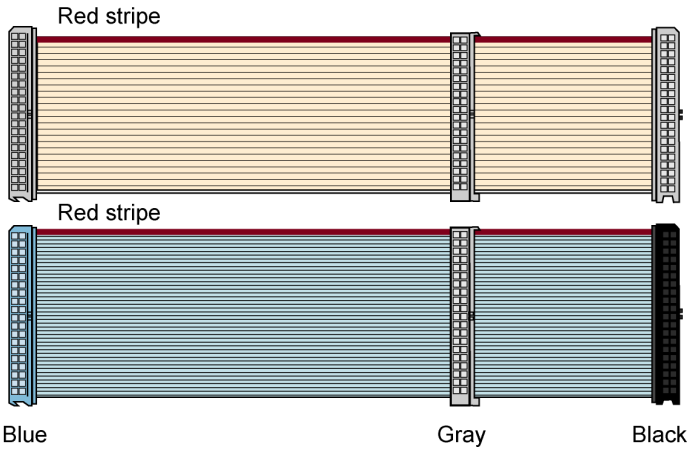


Figure 4: Comparing the older 40-conductor cable (top) to the new 80-conductor type (bottom). Be sure to use the 80-conductor cable.

The extra IDE/ATA cable shipped with your PX-750A is the new 80-conductor version. So if you have an older 40-conductor cable, replace it with the 80-conductor cable that came with your Plextor drive. (Or purchase an 80-conductor IDE/ATA cable at an electronics supply store.)

Do You Have Cable Select?

Many computers from major manufacturers use special Cable Select cables. The Cable Select cable typically has markings that identify the connectors for Master, Slave, and Motherboard.

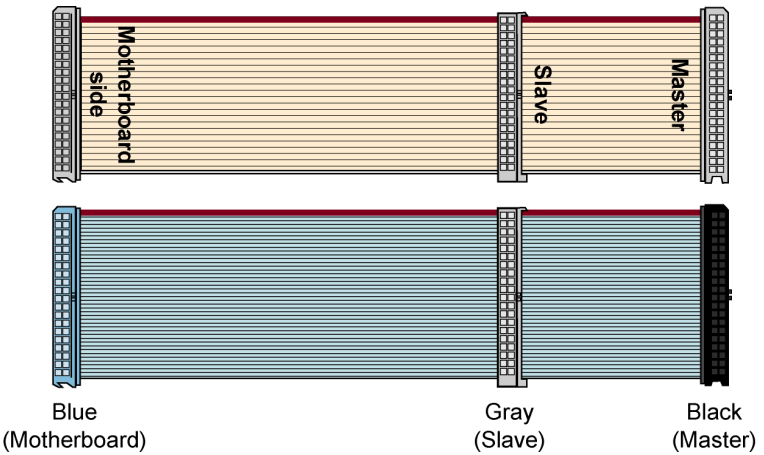


Figure 5: If you have an older 40-conductor Cable Select cable (top), replace it with the new 80-conductor cable (bottom).

If you have one of these older Cable Select cables, replace it with the 80-conductor IDE/ATA cable from Plextor. (All 80-conductor cables that meet the ATA specifications also support Cable Select.) The connector color identifies master and slave.

With the 80-conductor cable:

- The blue connector attaches to the computer motherboard or controller.
- The gray connector is in the middle of the cable, and goes to any slave (device 1) drive, if present.
- The black connector is at the opposite end from the host connector and goes to the master drive (device 0), or to a single drive if only one is used.

If you are unsure whether or not your system has a Cable Select cable installed, either look at the cable or look at the jumpers on the existing DVD-ROM or CD-ROM drive. If any device is jumpered as Cable Select, then both devices on that cable must be jumpered that way.

Do You Need a Power Cable?

In most computers, you will find extra power connectors in the computer ready for your use. When you open the computer, check the cable running from your power supply to your hard disk drive and see if it has extra connectors on it. If so, you can plug one of these into the power connector found on the rear panel of the PX-750A.

If you do not find any additional connectors (either because they were not supplied or they are all in use), you will have to buy a "splitter" or a "Y-connector." These can also be found at most retail and mail-order computer stores.

Set the Drive's Mode Jumper

You specify your drive's Master, Slave, or Cable Select setting before installing it. You do this by changing the position of a jumper on the mode jumper block at the rear of the drive.

Your drive ships from our factory with its mode jumper set to operate the PX-750A as a Master. This will work in most custom system configurations. If your computer is from a large OEM system manufacturer such as IBM, Hewlett Packard/Compaq, Dell, or Gateway, you will need to pay particular attention to whether the computer uses the Cable Select scheme.

NOTE: The jumper configuration on the drive has priority over Cable Select. So if the jumper of one device on a cable is set to Master, the jumper of the other device must be set for Slave. In this case, location of the devices on the cable is not important.

If you have only one device, it must be set to Master or Cable Select, and it must be at the end of the cable.

Changing the Mode Jumper on Your PX-750A Drive

The drive arrives from the factory with its mode jumper set to Master. (A function is ON if the jumper is installed and OFF if the jumper is removed.)

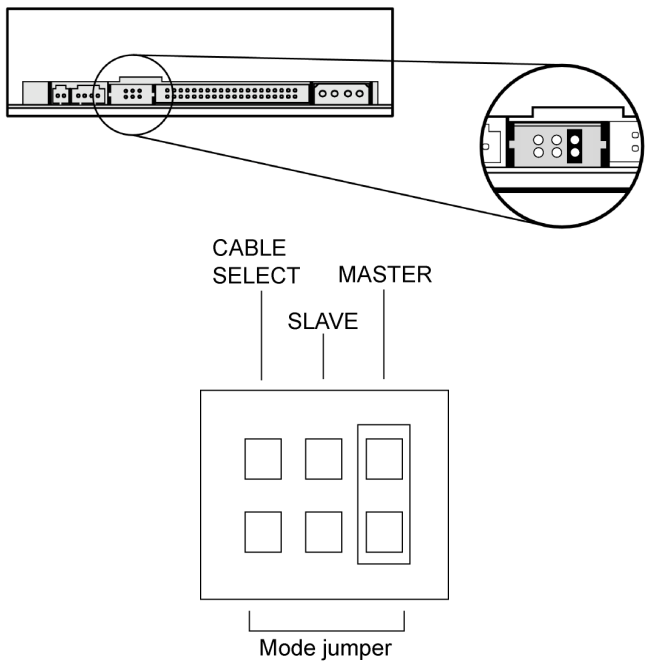


Figure 6: Factory settings for mode jumper at the rear of the internal drive

Changing to a Master, Slave, or Cable Select

The Master/Slave/Cable Select setting for the drive is determined by the mode jumper. The jumper is placed over one of the sets of mode pins. To change the drive from Master to Slave or to Cable Select, you must move the jumper.

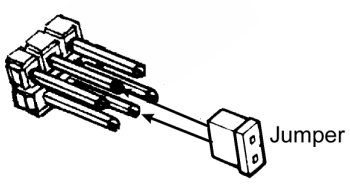
For example, to change the drive to be a Slave, move the jumper to the middle set of mode pins, leaving the other pins uncovered. To change the drive for Cable Select, move the jumper to the left set of mode pins.

Note that if any device is jumpered as Cable Select, then *both* devices connected to that cable must be jumpered as Cable Select. (And if you're not using the newer 80-conductor IDE/ATA cable, the cable you use must be a special Cable Select cable.)

Changing Jumper Settings

- To remove a jumper, pull it off with your fingers or a pair of needle-nose pliers.
- To install a jumper, push it onto the jumper pins.

CAUTION: Ensure power to the drive is OFF before installing or removing a jumper.



Install jumpers this way (Vertically)

DO NOT install jumpers this way (Horizontally)

Figure 7: Install the mode jumper across vertical pairs of pins

CAUTION: Install the mode jumper across the pins as shown (vertically). Do not connect one pin switch to another by installing the jumper lengthwise (horizontally). Doing so could result in damage to the drive.

Select an IDE Configuration

Set the PX-750A's jumper and cable it according to the desired configuration. Keep these rules in mind:

- For best DVD±RW and CD-RW performance, try to connect the PX-750A to the IDE port that is not connected to the hard disk drive or to a DVD or CD-ROM drive. In most cases, this will be the secondary IDE port.
- For best results, set the PX-750A to be the Master, if possible.
- If you have only one device on a cable, always set its jumper as the Master, never as the Slave.

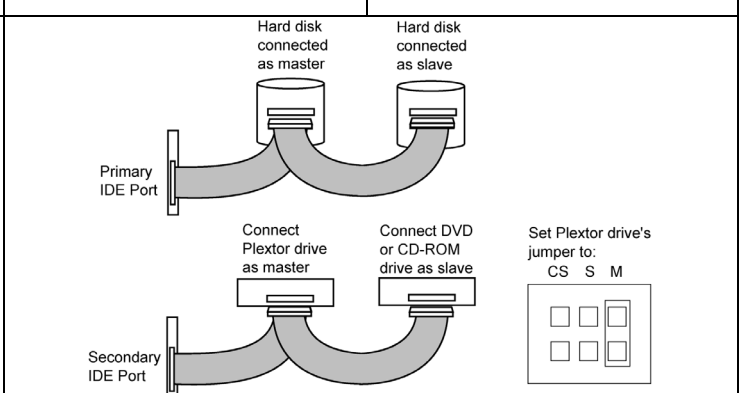
	Before PX-750A Installation	How to Install the PX-750A
A	Hard disks connected as Master and Slave devices on primary IDE port; DVD-ROM or CD-ROM drive connected as Master device on secondary IDE port.	Remove the DVD-ROM or CD-ROM drive, change it to Slave, and re-connect it to the secondary IDE port. Set the mode jumper to Master, and connect the PX-750A as Master device to the secondary IDE port.
		

Figure 8. How to install the PX-750A if your computer is originally set up in configuration A

NOTE: The configuration shown in Figure 8 can make it very difficult to write from the DVD or CD drive to the PX-750A at maximum rated speed using “on-the-fly” copying.

System configuration and performance will make a big difference. Depending on how fast the DVD or CD-ROM drive can stream data to the PX-750A, it may not be fast enough to keep the buffer full. In this case, the buffer may become empty and a buffer underrun error may occur. However, because it is equipped with Buffer Underrun Proof Technology, your PX-750A can still make successful copies if you use software that supports this feature. (All software shipped with PX-750A drive retail kits supports Buffer Underrun Proof Technology.)

If you still have problems writing with this configuration, use the image writing method (that is, write an image to your hard drive, then write that image onto the DVD±R/RW or CD-R/RW media), or record at a lower speed. We also recommend that DMA be enabled on your computer, if your system supports it.

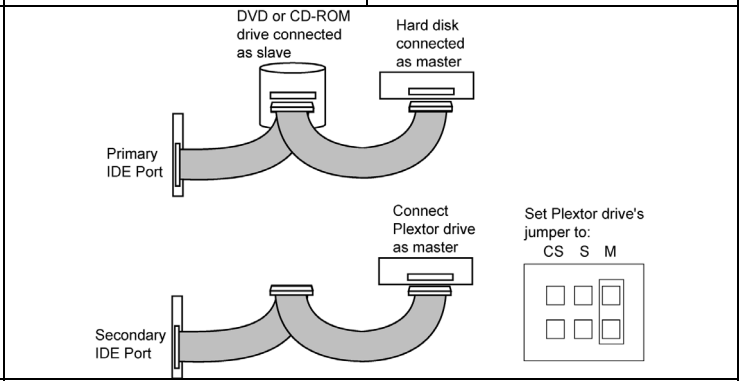
	Before PX-750A Installation	How to Install the PX-750A
B	Hard disk connected as Master device, and CD-ROM or DVD-ROM drive connected as Slave on the primary IDE port; nothing connected to secondary IDE port.	Set the mode jumper to Master, and connect the PX-750A as Master to secondary IDE port.
		

Figure 9. How to install the PX-750A if your computer is originally set up in configuration B

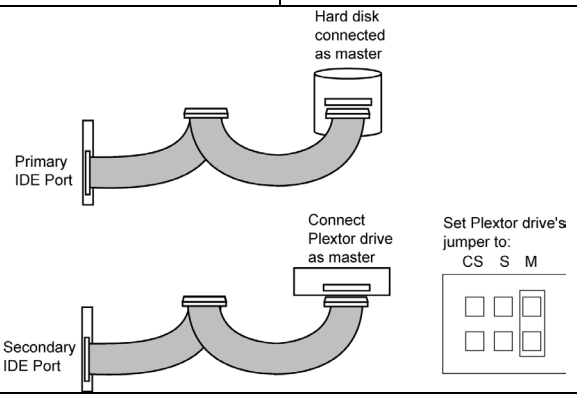
	Before PX-750A Installation	How to Install the PX-750A
C	Hard disk connected as Master device on primary IDE port; nothing connected to secondary IDE port.	Set the mode jumper to Master, and connect the PX-750A as Master to secondary IDE port.
		

Figure 10. How to install the PX-750A if your computer is originally set up in configuration C

	Before PX-750A Installation	How to Install the PX-750A
D	System uses special Cable Select cables; all devices are jumpered for Cable Select.	Set the PX-750A's mode jumper to CSEL, and connect the drive to the end of the cable from the computer's IDE interface connector.

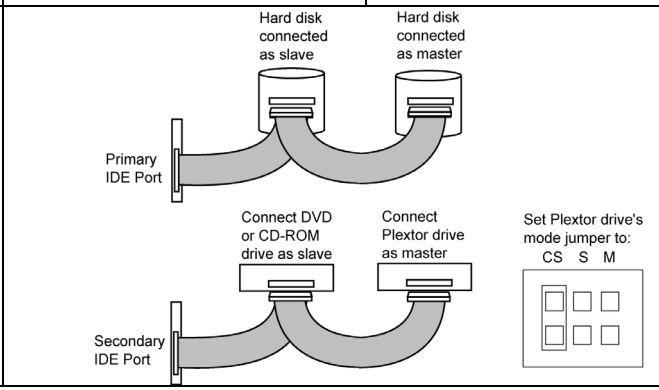


Figure 11: How to install the PX-750A if your computer is originally set up in configuration D

About Cable Select

The Cable Select jumper position sets the PX-750A drive to use the CSEL signal from the IDE interface for configuration purposes. This signal automatically selects the correct Master/Slave setting for the drive.

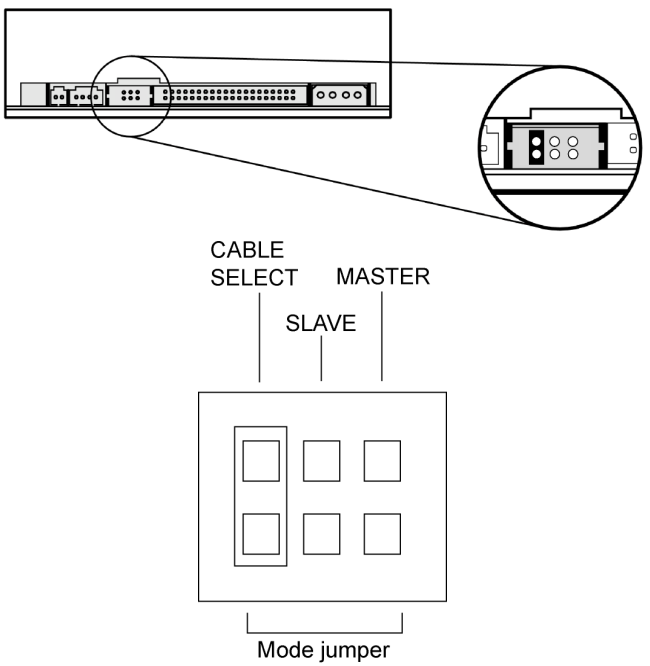


Figure 12: Configuring the PX-750A drive for Cable Select

To use CSEL, you must have:

- A computer that supports CSEL.
- An IDE cable that supports CSEL (Cable Select). The 80-conductor IDE/ATA cable from Plextor supports CSEL.

Mount the PX-750A Drive

Before proceeding to install the PX-750A drive in your personal computer, double-check your jumper setting.

Record the Serial Number

Record the serial number and TLA number of your drive on the inside front cover of this manual.

Change the Front-Panel Color

If desired, you can change the PX-750A's front-panel color by replacing the bezel. See "Changing the PX-750A Front-Panel Color" on page 58 for a detailed procedure. Make this change before mounting your PX-750A drive in the computer.

Mount the Drive in the Computer

You can mount your internal drive in any available bay. You must remove the small panel that covers the bay that you want to use.

NOTE: The drive can be mounted horizontally or vertically

If you don't have an empty bay, remove the existing IDE DVD-ROM or CD-ROM drive and install the PX-750A.

You must make a minimum of two cable connections to your PX-750A. The two cable connections that you must make are:

- IDE cable
- Power cable

There are also two optional cable connections:

- An analog audio cable connection if you are using a sound board in your computer and plan to connect the PX-750A's audio output to the audio connector on the sound board.
- A digital audio cable connection if the sound board is equipped with SPDIF or Digital-In and you wish to use the digital audio output from your PX-750A.

To mount the PX-750A drive:

1. Make sure the power to your computer and any external peripherals is turned OFF and your computer is UNPLUGGED from its power source.

2. If you haven't already removed the cover from your computer, remove it now, following the directions provided by your computer's manufacturer. Typically, this involves loosening or removing several screws on the back panel of your computer and sliding off the cover. See Figure 3 for details.

3. Remove the cover panel from the bay that will hold the drive. To remove the cover panel, pop it out by pressing outward lightly. (In some older computers, you may have to remove screws that hold the panel in place.)

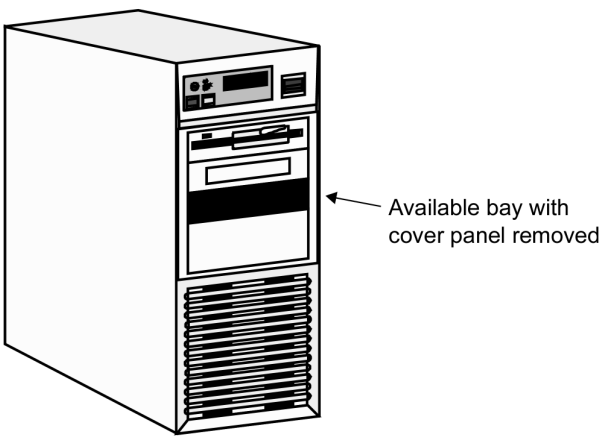


Figure 13: Removing the cover panel from a bay

4. Determine if you must install mounting rails on the sides of your drive. To do so, insert the drive into the open bay. If the drive fits tightly with little or no clearance on either side of the drive, you will not have to use mounting rails. The drive can be mounted directly into your computer. Go to step 6.

   NOTE: Plextor does not provide rails. If you need rails, you can obtain them from the computer manufacturer or from a computer supply retail or mail-order store.

5. If you must use mounting rails, fasten the rails to the lower pair of holes as shown in Figure 14. (In some instances, you may need to fasten the rails to the upper set of holes.) After fastening the rails, check their positioning by sliding the drive into the bay before you mount the drive or connect any cables.

   CAUTION: Be sure not to mistake the inner and outer face of the rail when attaching. Typically, the smooth side of the rail faces away from the drive's chassis.

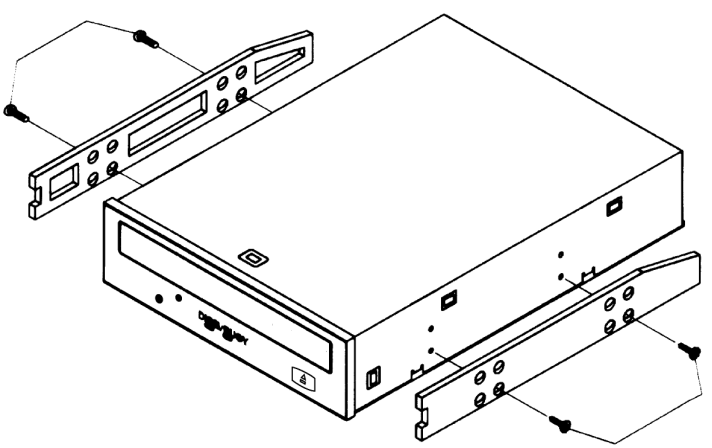


Figure 14: Installing mounting rails (if needed)

6. Plug one connector of the 80-conductor IDE/ATA cable into the IDE connector on the rear panel of the drive before you insert the drive into your computer. Then thread the cable through the front of the open bay and back toward the motherboard. The drive should slide smoothly into the bay. If it does not, check for obstructions in the bay and ensure the side rails are attached properly.

7. If not already connected, attach the other end of the IDE ribbon cable to the connector on the motherboard.

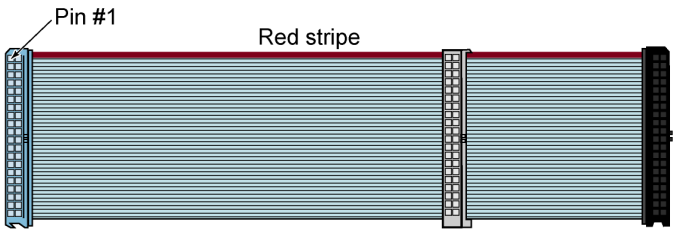


Figure 15: Connect one end of the IDE cable to the motherboard and the other end to the drive. If your Plextor drive is the only device on the cable, attach it at the end of the cable, leaving the center connector free.

CAUTION: With some IDE ribbon cables, it is easy to accidentally plug your IDE cable upside down into both your drive and the motherboard. Be sure you match the red stripe along one side of the IDE cable to Pin 1 on the motherboard and Pin 1 on the drive. (Pin 1 on the drive is closest to the power connector.) Note that each connector on most ribbon cables also has a “key” in the middle. This key should fit into a slot in the middle of each connector of the motherboard, your PX-750A drive, and any other internal IDE peripherals.

8. Double-check your work. You must ensure the side of the IDE cable with the red stripe is matched to Pin 1 on the interface board and on the drive.

CAUTION: In the case of only one IDE device, you must make certain that one end of the cable is always connected to the IDE connector on the motherboard. The other end of the connector must be connected to a device. The end connector of the cable should never be left unconnected.

9. Connect a power cable from the computer to the power connector (DC INPUT) of the drive. In most computers, you will find free power connectors that are ready for your use.

CAUTION: The power connector on the cable and the receptacle on the drive are keyed. Do not force the power connector into the drive, or the drive and/or the computer may be damaged.

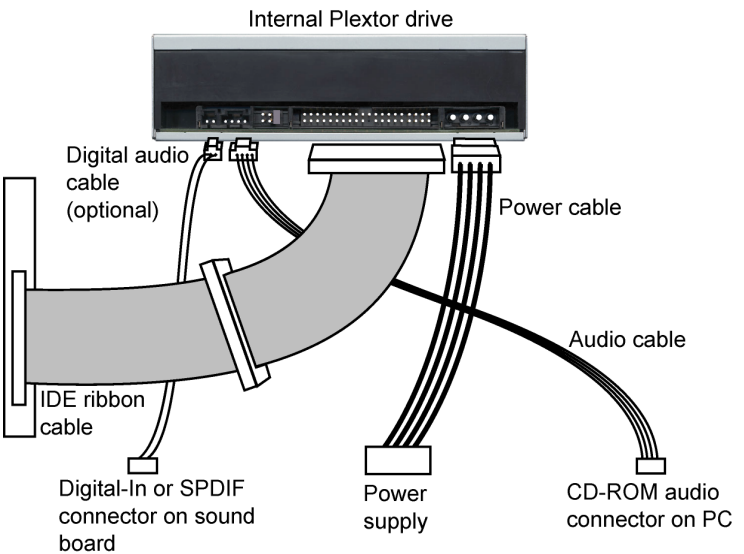


Figure 16: Cable connections for an internal IDE drive

10. Connect the analog audio cable if you want to use a sound board in your system. This cable runs from the four-pin analog audio output connector on the rear panel of your drive to the CD-ROM audio connector on the PC or your sound board. See "Using Sound Boards and Audio Cables" below for more information about audio cables.

11. Connect a digital audio cable if your sound board is equipped with the Sony/Philips Digital Interface (SPDIF) or Digital-In, and you wish to use the digital audio output from your PX-750A. This cable runs from the digital audio output connector pins on the PX-750A back panel to the sound board. (This cable is not supplied by Plextor.)

12. Mount the PX-750A drive in the computer using the four screws that were supplied with your drive. Use only these screws.

CAUTION: Do not mount your drive in your computer using screws other than those supplied by Plextor. You may damage the drive if you insert screws that are too long or the wrong thread type.

Using Sound Boards and Audio Cables

Whichever category your sound board falls into, you will find that the best source of information about installing the sound board in your computer is the board's manual. Once you have successfully installed the sound board in your computer, you can continue below for a description of the different cable connections that need to be made.

If you need audio cables, you will have to purchase them. Refer to the table below. A list of several vendors who offer audio cables is available on Plextor's web site.

Audio Connection	Cable Required	How to Connect It
MPC audio source	MPC-compliant audio cable	Connect to MPC audio source, and to analog audio output connector at the rear of the Plextor drive.
Sound Blaster or compatible sound board	Sound Blaster-compatible analog audio cable	Connect to Sound Blaster-compatible audio board and to analog audio output connector at the rear of the Plextor drive.
Digital audio output	Cable that's compatible with SPDIF or Digital-In.	Connect to SPDIF or Digital-In connector on sound board (if sound board supports digital audio) and to digital audio output connector at the rear of the Plextor drive.

Where to Go From Here

This completes the installation procedure. Go to "Section 4. Using Your PX-750" on page 47 to see how to use your PX-750A drive.

3. Installing the PX-750UF External USB/FireWire Drive

This section explains how to physically connect your PX-750UF external USB/FireWire drive to your computer.

PX-750UF Drive Features and Controls

Before proceeding, become familiar with the controls and features of your Plextor drive. Match the parts of your drive to the illustrations below.

Front Panel—PX-750UF External Drive

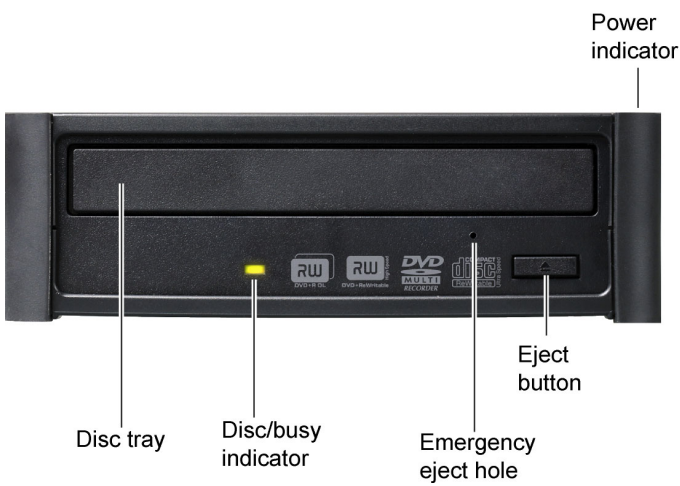


Figure 17: Front panel of the PX-750UF external drive

- **Disc tray**: Slides out to allow you to insert a disc.

- **Disc/busy indicator**: Illuminated green for disc reading, blinking green for writing.

- **Emergency eject hole**: If the automatic eject button does not work, turn the power switch to OFF, then insert the emergency eject tool, paper clip, or other thin, rigid object in this hole to eject the disc tray manually.

- **Eject button**: Push once to eject the tray. Push again to load the tray back into the PX-750UF. To prevent wear on the drive, always use the eject button to load the tray.

- **Power indicator**: (On top and right side of enclosure.) Illuminated blue when power is on.

Rear Panel—PX-750UF External Drive

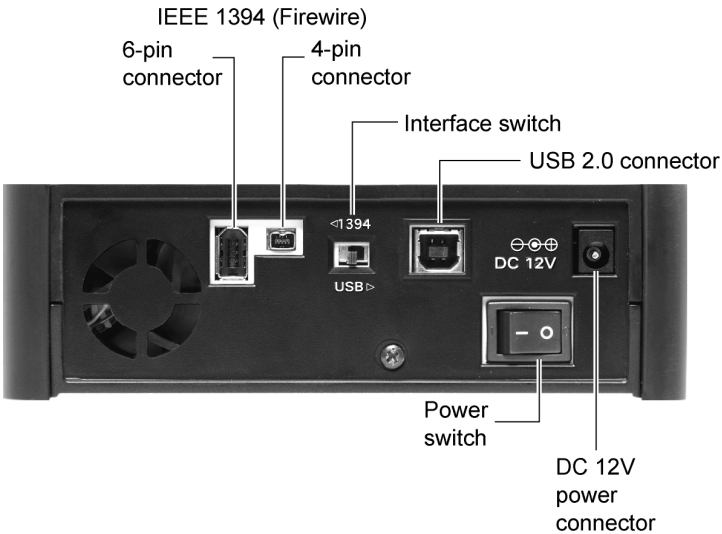


Figure 18: Rear panel of the PX-750UF external drive

- **IEEE 1394 6-pin connector**: Connect an IEEE 1394 (FireWire) cable with a 6-pin connector here.

- **IEEE 1394 4-pin connector**: Connect an IEEE 1394 (also known as FireWire) cable with a 4-pin connector here.

  NOTE: The PX-750UF does not include an IEEE 1394 cable. To use IEEE 1394 (FireWire), you must purchase this cable separately.

  NOTE: The PX-750UF does not get its power from the IEEE 1394 bus or the USB bus. It must be connected to the AC adapter.

CAUTION: If using the PX-750UF with other IEEE 1394 devices in a daisy-chain configuration, do not connect or disconnect devices while operating the PX-750UF.

PX-750UF performance cannot be guaranteed if the drive is connected in an IEEE 1394 daisy chain.

- **Interface switch**: Switch the PX-750UF drive to operate with a different interface (USB, IEEE 1394). This allows you to connect the drive to either interface, depending on the requirements of your computer. If you change interfaces with this switch, you must also cycle the PX-750UF power. (That is, turn the rear-panel power switch off, then on again.)

- **USB 2.0 connector**: Connect the USB cable here. You can use a USB 2.0 or USB 1.1 interface.

  CAUTION: Use only the USB cable shipped with your PX-750UF.

- **DC 12V power connector**: Connect the AC adapter here.

  CAUTION: Use only the AC adapter shipped with your PX-750UF.

- **Power switch**: Press this switch to turn the power on or off. Press the "0" down to turn power off. Press the "1" down to turn power on. The power indicator is illuminated when power is on.

What Else Is In the PX-750UF Box

What you find in your Plextor box depends on what the company that sold you the box put in—or took out—while the Plextor drive was in their possession. Plextor currently sells the PX-750UF drive in this configuration:

- PX-750UF DVD±R DL, DVD-RAM, DVD±R/RW and CD-R/RW drive
- USB 2.0 cable
- AC adapter and power cord
- Emergency eject tool
- Plextor software disc with a PDF file of the *PX-750UF Installation and Users Manual*. Also contains Roxio's Easy Media Creator.
- Drive *Quick Installation Guide*

Save Your Box!

Be sure to save the box after you have installed your drive. The box and its packaging material were designed and drop tested to ensure your drive can endure rough treatment and still arrive in working order. If you have to ship your drive back to Plextor, you'll want to send it in the original box. (For more details about returning your drive to Plextor, see page 89.)

If the security sticker on top of your box is cut, there may be a good reason: for example, a dealer may have added other components or software. Carefully check the contents to ensure nothing has been removed. If something is missing, contact the party from whom you purchased the box for an explanation.

NOTE: This applies to the Plextor retail box. Your drive may have been shipped in a different box with other contents, depending on whom you purchased the drive from and what they included inside the box.

If your drive came pre-installed, some or all of the items above may have been installed and may not be separately available. See the Plextor web site for locations to purchase additional or replacement accessories.

Mount the PX-750UF Drive

This section explains how to physically connect the PX-750UF external drive to your computer. In general, this is what you'll do:

1. Determine what operating system your computer is running. Your computer must be running Windows XP or 2000; or the Macintosh Mac OS X operating system.
2. Determine which interface you want to use: FireWire (IEEE 1394) or USB.
3. Set the PX-750UF interface switch for IEEE 1394 or USB.
4. Connect the AC adapter to an electrical outlet and to the PX-750UF.
5. Turn the drive's power switch ON (the "1" position).
6. Connect the USB cable or a FireWire cable (corresponding to the setting of the interface switch) from your PX-750UF drive to the computer.

That's all there is to it! We'll go over the procedure in more detail in the next few pages.

If you have a PC, start here. If you have a Macintosh, go to "If You Have a Macintosh" on page 46.

Determine Your Computer's Operating System

To determine which operating system your personal computer uses:

1. In Windows, select the Start menu, then select Settings, then Control Panel, and choose the System icon. You see the System Properties window.

2. In the System Properties window, make sure the General tab is selected. The System line shows details about your operating system. (For example, "Windows 2000.")

NOTE: Your computer must be running Windows 2000 or Windows XP (or Mac OS X). If you are not running one of these operating systems you cannot use the PX-750UF. You cannot use the PX-750UF with Windows 98 or Mac OS 9.

Determine What Interface to Use

You can use either USB 2.0 or FireWire. The built-in USB ports on older computers (and even on inexpensive new ones) provide only USB 1.1—that is, Full-Speed (12 Mbps) USB.

For optimum performance:

- If your PC does not have built-in USB 2.0, use the FireWire port, if available.

- If you have neither USB 2.0 or FireWire, you can purchase and install a third-party PCI USB 2.0 or FireWire plug-in host adapter card.

- If you don't want to purchase a separate card, you can use your PC's built-in USB 1.1 port. However this limits the CD-RW drive performance of the Plextor PX-750UF to 4X write, 4X rewrite, and 6X read. DVD performance with USB 1.1 is 0.7X.

Connect the PX-750UF Drive

This section explains how to install your drive (that is, how to connect it to your computer).

Record the Serial Number and TLA Code

Before proceeding to connect the Plextor PX-750UF drive to your personal computer, record the serial number and TLA number of your drive on the inside front cover of this manual.

Install the Drive in Your Windows Computer

If you have a computer with Windows XP or Windows 2000, use the following procedure to install your PX-750UF drive.

To install the PX-750UF drive in a Windows-based computer:

1. Turn ON your computer system.

2. Set the interface switch at the rear of the PX-750UF drive to USB (switch to the right) if you are using a USB cable; or to 1394 (switch to the left) if you are using IEEE 1394 (FireWire).

3. Connect the AC adapter to your PX-750UF as shown in Figure 19.

4. Turn the drive's power switch ON (the "1" side is down). The power indicator is illuminated when power is on.

5. Connect the USB or IEEE 1394 (FireWire) cable from your PX-750UF drive to the computer.

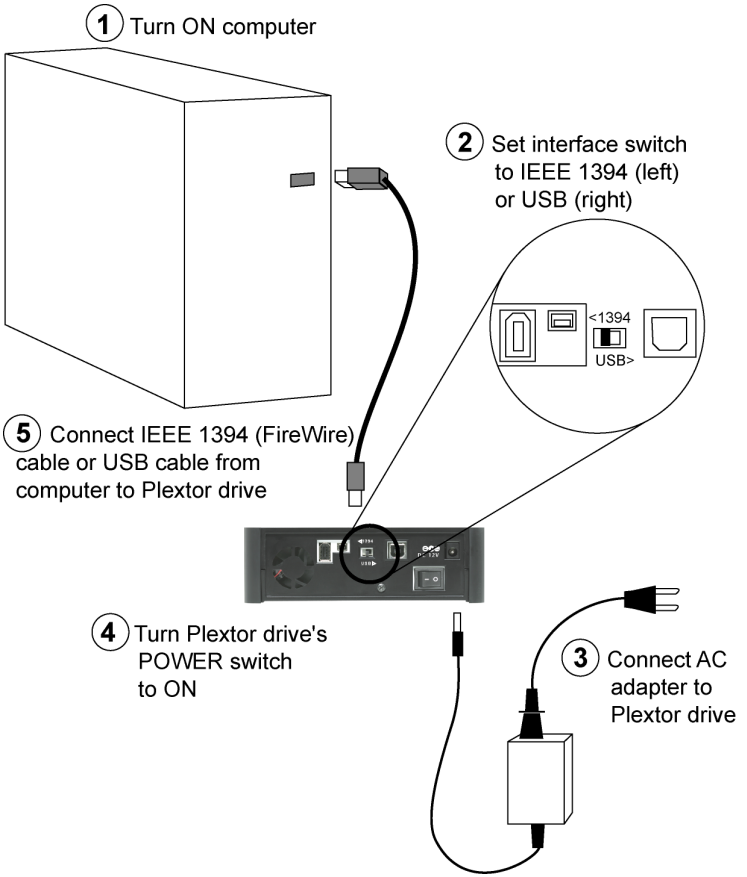


Figure 19: Connecting the AC adapter and USB or FireWire cable

The drive should be automatically recognized by the computer. In some cases, you may have to reboot (turn the computer off, then on again) for the PX-750UF to be recognized.

CAUTION FOR USB: If possible, always connect the PX-750UF directly to the computer's USB port. Connecting the PX-750UF to a USB hub is not recommended. Connecting through a USB hub may reduce the drive's performance.

CAUTION FOR IEEE 1394: To guarantee rated performance with IEEE 1394/FireWire, the PX-750UF should be the only device on the cable. Daisy-chaining the PX-750UF with other IEEE 1394/FireWire devices may reduce performance.

Identifying Cables and Ports

This illustration will help you identify the cables and computer ports and make the necessary connections.

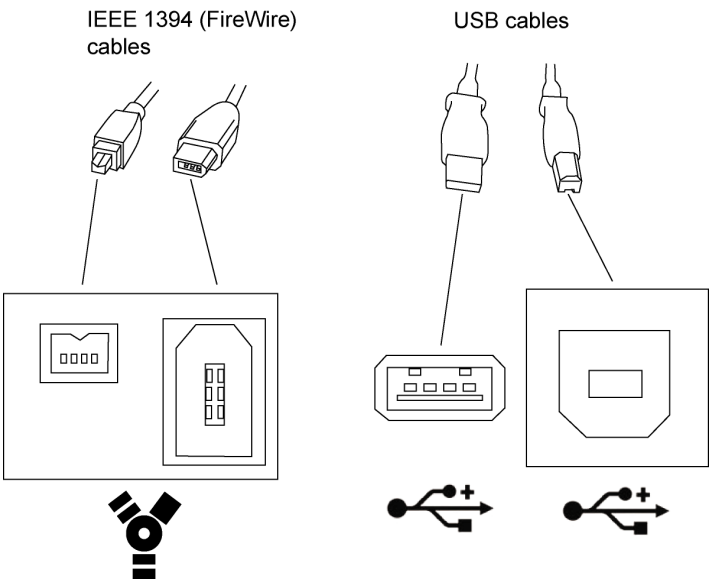


Figure 20: Identifying cables and ports on your computer

Switching Between USB and IEEE 1394 Interfaces

You can connect any or all of the interface cables (USB, IEEE 1394 4-pin, and IEEE 1394 6-pin) and switch between them. You can even have different cables attached at the same time, allowing more than one computer to share the PX-750UF.

To switch between interfaces attached to the PX-750UF:

1. Ensure an interface cable for the desired USB or IEEE 1394 interface is attached to the PX-750UF and to the computer.

2. At the rear of the PX-750UF, set the interface switch to the desired interface.

3. Cycle the PX-750UF power. (That is, turn the PX-750UF's power switch off, then on again.)

If You're Using FireWire

If you are using FireWire (IEEE 1394), remember these hints for better operation:

- Do not daisy-chain the PX-750UF; that is, do not connect it to the same cable along with other FireWire devices.

- The PX-750UF is not bus powered—that is, it doesn't get its power from the IEEE 1394 cable—so you have to use the bundled AC adapter.

If You Have a Macintosh

If you have a Macintosh, use the following procedure to install your PX-750UF drive:

1. Turn on the Macintosh.
2. Check the minimum system requirements for your Macintosh recording application and ensure you are running the required Mac OS version.
3. On the PX-750UF, set the rear-panel interface switch to USB or IEEE 1394, corresponding to the interface you will be using.
4. Connect the AC adapter to your PX-750UF.
5. Turn the drive's power switch ON (the "1" is depressed). The power indicator is illuminated when power is applied.
6. Connect the USB cable or an IEEE 1394 cable from your PX-750UF drive to the Macintosh computer.

The Macintosh automatically recognizes the PX-750UF (if the base extensions are loaded), and you should be ready to use the drive as a CD-ROM. To use the recording capabilities of the drive, a recording application must be installed.

NOTE: For optimum performance, if your Macintosh computer does not have built-in USB 2.0, use the FireWire port. Or you can install a third-party PCI USB 2.0 plug-in host adapter card.

Where to Go From Here

This completes the installation procedure. Go on to the next section to see how to use your PX-750UF drive.

4. Using Your PX-750

This section explains how to use your PX-750 drive and how to load, handle and care for your DVDs and CDs.

What Media to Use

Use the right media! Your PX-750 drive's capabilities change depending on which type of compact disc you use.

DVD Media

DVD recordable media is available in two different, non-compatible formats:

- DVD+R, DVD+R DL (double layer) and DVD+RW
- DVD-R, DVD-R DL (dual layer) and DVD-RW

Your PX-750 can *read* and *write* either media format, in single layer or double layer media. It supports all these types of DVD media:

- **Digital Video Discs**: You can immediately play pre-recorded DVD discs, including movies and other DVDs.
- **DVD+R DL, DVD-R DL, DVD+R, DVD-R**: Recordable DVD. You can record on these discs, but only once. You can also read them.
- **DVD+RW, DVD-RW**: ReWritable DVD. You can record and re-record (up to 1,000 times) on these discs. You can also read them.

Figure 21: The logo identifies the type of DVD media

With double layer media, you don't need to turn the disc over to record on side 2.

DVD-RAM Media

Unlike standard DVD media, you do not need special DVD burning software to write or read DVD-RAM discs on a computer. You can access these discs like a floppy disk or hard drive. You can even write a DVD-RAM disc with a set-top box, then read it on the PX-750 drive.

The PX-750 supports reading and writing with 2.6-GB (version 1) and 4.7-GB (version 2) DVD-RAM discs.

CD-ROM Media

You can use these types of CD media:

- **CD-ROM**: You can immediately play or read prerecorded compact discs, such as audio CDs and data discs.
- **CD-R**: Recordable CD. You can record on these discs, but only once. You can also read them.
- **CD-RW**: Normal Speed, High Speed and Ultra Speed ReWritable CD. These discs support recording and re-recording (up to 1,000 times). You can also read them.

To achieve a certain writing speed, you must use the appropriate media. To achieve 40X CD-R writing speed you must use certified 40X media; and to achieve 24X CD-RW writing speed you must use Ultra Speed CD-RW media.

Remember:

- Using Normal Speed CD-RW discs (that is, NS-RW media) you can rewrite at 4X.
- Using High Speed CD-RW discs (HS-RW media), you can rewrite at 4X or 10X.
- Using Ultra Speed CD-RW discs (US-RW media) in this drive, you can rewrite at up to 24X.

You can write to Ultra Speed CD-RW discs only on drives that support this media. Drives that are capable of writing to Ultra Speed ReWritable media, such as the Plextor PX-750, are identified by a "Compact Disc ReWritable Ultra Speed" logo.

Figure 22: The logo also identifies the type of CD-RW media

More About Media for Your PX-750

See the Plextor web site at www.plextor.com for a list of Plextor-approved media for your drive

Tray Loading and Operation

To load and unload the tray:

1. While the drive is powered up, push the eject button on the front panel. The tray drawer slides out in 3–4 seconds.

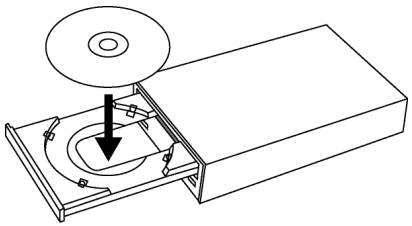


Figure 23: Loading the tray

2. Lay a CD or DVD disc in the depression in the tray, label side up.

3. Press the eject button again and the tray will slide shut within seconds.

NOTE: Always use the eject button to close the tray in a smooth and secure manner. Closing the tray by pressing the front of the drawer using your hand is not recommended and risks damage or premature wearing of the mechanism.

Handling DVD and CD Media

Take care when handling blank CD and DVD media. Dust, scratches, and fingerprints on either side of the disc can cause write errors during recording. When picking up or holding blank media you can either place your fingers along the outer edge of the disc, or place one finger through the center hole and one finger on the outer edge. Once you have finished creating a disc, label it by writing on the top using permanent ink.

CAUTION: We recommend using a "non-toxic" marker, such as a Sharpie® pen, that conforms to the ASTM D-4236 standard. Some permanent markers will damage the media. Also, do not press too hard when writing on the disc.

NOTE: We do not recommend placing self-sticking CD-R labels on the disc. The weight of the label may unbalance the disc and cause write errors during recording or read errors during reading. Also, attempting to remove the label may permanently damage the disc.

Cleaning Discs

For proper read and write performance, your discs must be clean. Trying to record on a dirty disc may result in a failed session and ruin the disc.

To clean the disc, wipe the disc using a clean, soft cotton cloth to remove surface dirt such as fingerprints. Use a straight-line motion, wiping from the center out. Do not wipe the disc in a circular motion.

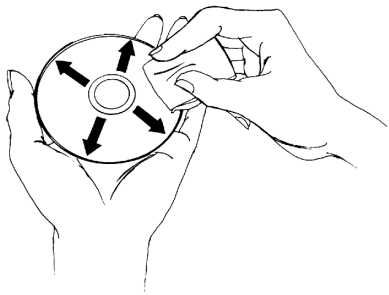


Figure 24: Wipe the disc from the center outward

HINT: Keep your frequently used discs in jewel cases at all times to prevent them from becoming dirty or damaged.

Mounting Position

You can operate your PX-750 drive in either a horizontal or a vertical position.

Playing DVDs

To play a digital video disc, insert the DVD as you would any other disc. The drive plays both single layer and double layer discs.

The first time: A code on each DVD allows it to be played only on players designed for a certain regional area, such as North America, Europe, etc. When the drive ships from the factory there is no region code set. The first time a DVD that has a region setting is inserted into the drive, the drive is automatically set to that region code.

If you later insert a DVD with a different region code, you are prompted to either accept changing the new region code or not. If you don't accept the change, then that DVD will not play. If you do accept the change, then the region code setting is changed. But remember: you can change the drive's region code only 5 times. After that, you can't change it any more.

Writing to DVD Media

You need special software that supports writing to DVD+R, DVD+R DL, and DVD+RW discs; or to DVD-R DL, DVD-R and DVD-RW discs. Roxio's Easy Media Creator (on the DVD that accompanies your PX-750) contains this software.

You don't need special software to write to DVD-RAM media.

Specifying +R/RW or -R/RW

You don't need to specify whether to write to +R/RW or -R/RW. The selection is automatically made for you, based on the media you insert in the drive.

Writing to CD-R and CD-RW Media

In conjunction with your drive, mastering and packet writing software such as Roxio Easy Media Creator or Ahead Software's Nero allows you to write audio, video, data, or other information to writable (CD-R) or rewritable (CD-RW) media. The PX-750 writes to all types of CD-RW media.

Using the Disc/Busy Indicator

The color and blink rate of the front-panel disc/busy indicator give you information about the drive's operation.

When you are writing to a CD-R or CD-RW disc, the color and blink rate of the front-panel disc/busy indicator show the speed of writing, as follows:

Operation	LED color	On/Off/Blink	Blinking interval
No disc	–	Off	–
Loading	Green	Blink	–
Disc loaded and ready	Green	On	–
Disc loaded, drive in power save mode	–	Off	–
Error	–	Off	–
Read or verify activity	Green	On	–
CD/DVD write	Green	Blink	2 blinks/sec
Test write CD/DVD	Green	Blink	2 blinks/sec
Tray locked and eject button pushed (during read/write)	Green	Blink	1 blink/sec
Tray locked and eject button pushed	–	Off	–

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5. Maintenance and Troubleshooting

This section explains maintenance and troubleshooting procedures for your PX-750 drive.

With proper maintenance, you can prevent problems. If trouble arises, you can often solve many simple problems on your own, rather than wait for assistance from a Plextor representative.

Cleaning the PX-750 Drive

Plextor drives are sealed against external contamination, so in a normal computer environment and with normal use, your drive should not require internal cleaning. However, if your drive has been in use for some time and has just recently started to exhibit read/write problems, it is possible that dust has accumulated on the laser lens. In this case:

- If your drive is still in warranty and you are experiencing problems, send the drive to Plextor. (See “Returns” on page 89.)
- If your drive is out of warranty, before returning the drive for repair you may want to try a short blast of canned air aimed at the center of the drive. Use only electronics-grade canned air: sterile, filtered, and moisture-free. If you notice no improvements after this step, you will need to return the drive for repair.

CAUTION: Do not attempt to clean your drive using any solvent-based cleaners. Also, do not use an air compressor, because the high-pressure blast can damage the drive.

ANOTHER CAUTION: Do not use a CD cleaning disc. Cleaning discs that use a felt pad can scratch the laser lens surface and render the drive inoperable. Cleaning discs with brushes may also scratch the lens. Moreover, these cleaning discs are often out of balance, making their operation very noisy.

Upgrading Firmware

Plextor creates firmware revisions to meet the particular needs of large computer manufacturers. It is rare that these revisions will impact the performance or operation of your drive. However, we advise that you always update your drive with the latest available firmware. Among other benefits, updating firmware ensures that your drive has the latest media catalog. Before troubleshooting a possible problem with your PX-750 drive please visit our web site at www.plextor.com to check if you have the latest firmware.

To obtain new firmware for your drive:

1. Go to the Plextor web site at www.plextor.com.

2. Look for firmware upgrades in the Support area, on the Downloads page. There is a description of the latest firmware revision and its intended use.

3. Download the firmware to your computer.

To upgrade firmware in your drive's flash memory:

1. Run the executable file that you downloaded from Plextor's web site.

2. Accept all defaults by continuing to click on the Next button until you see the message:
   `Firmware update has completed.`

3. Restart your system.

Emergency Eject

If the computer power is turned off or the automatic eject button at the front of the drive does not work, use this procedure to open the drive.

To use the emergency eject tool to open the drive:

1. Make sure power to the drive is OFF. (That is, turn off your computer.)

2. At the front of the drive, insert the emergency eject tool, or a paper clip or other thin, rigid object, into the emergency eject hole.

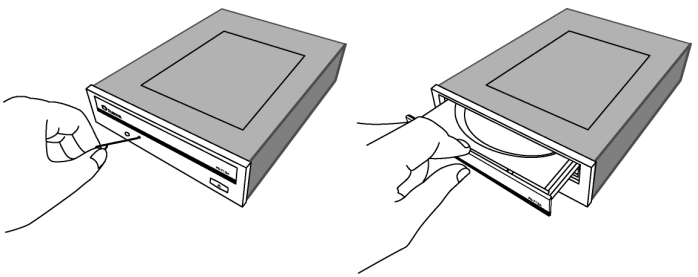

Figure 25: Emergency eject

3. Push the tool or other object straight in, until the disc tray clicks open.

4. Carefully continue to slide the disc tray open.

5. Remove the CD or DVD from the disc tray.

6. Carefully push the disc tray shut.

Changing the PX-750A Front-Panel Color

By using the replacement bezel and disc tray face plate you can change the PX-750A's front-panel color in a few moments.

CAUTION: Avoid creating static electricity. Be sure to wear a grounding strap when performing this procedure.

To install a different bezel and disc tray face plate:

1. If the PX-750A is already installed in a computer, turn the computer power OFF and open the computer case.

2. If necessary, remove cables from the rear of the PX-750A and remove the drive. (You may be able to gain access to the necessary parts of the drive by sliding it forward without removing any cables.)

3. Use the emergency eject tool or a paper clip to open the tray drawer as illustrated in Figure 25 above.

4. Turn the drive upside down (or work from the bottom) and locate the two hooks at the bottom of the disc tray face plate. The hooks are toward the left and right edges of the tray mask.

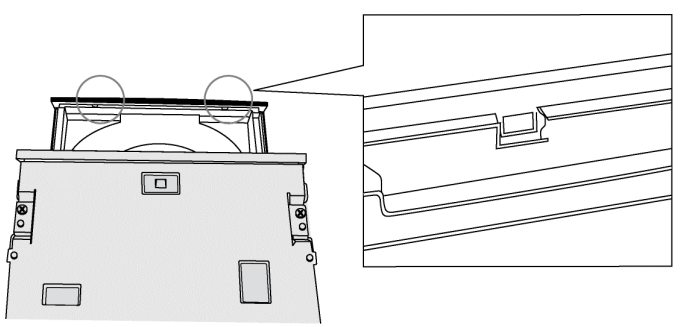

Figure 26: Locate the two disc tray face plate hooks

5. Hold the disc tray securely and gently push the tray face plate slightly to release it from the hooks. Pry a hook away from the tray and press down. When both hooks are released, remove the mask by pressing it off the disc tray.

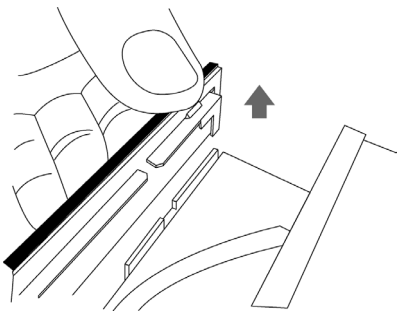

Figure 27: Unhook the tray mask and push to release it

6. Locate the three bezel hooks. One is on the bottom of the drive, and one is on each side.

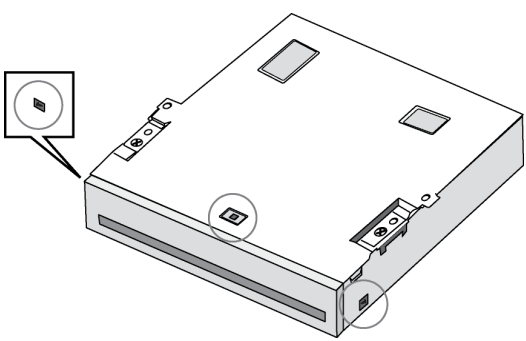

Figure 28: Locate the three bezel hooks

7. Turn the drive right side up and locate the catch at the center of the top of the drive.

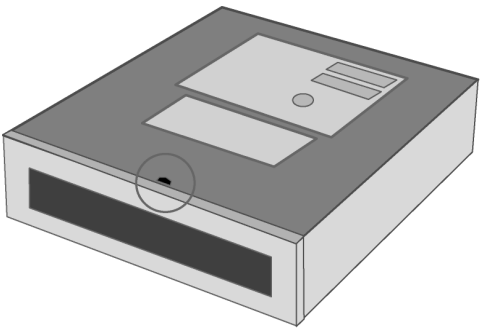

Figure 29: Also locate the catch at the top front of the drive.

8. With the drive right side up, release the two *side* bezel hooks. To release the hooks, press inward using the tip of a screwdriver or the eject tool. Do this only for the two bezel hooks on the sides. (You don't have to do this for the hook on the bottom.)

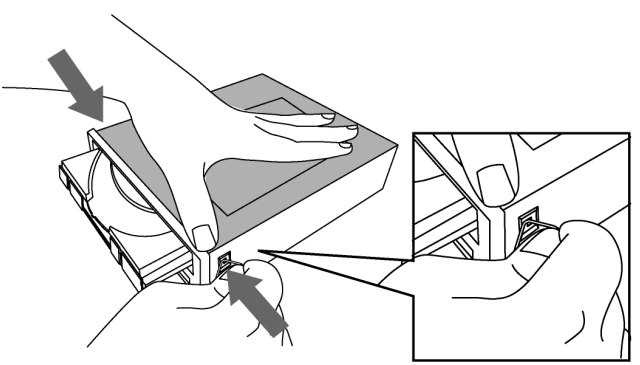

Figure 30: Press in with the eject tool to release the two side bezel hooks

9. With the two side bezel hooks released, tilt the top of the bezel slightly forward to release the top catch, then slide the bezel forward to remove it.

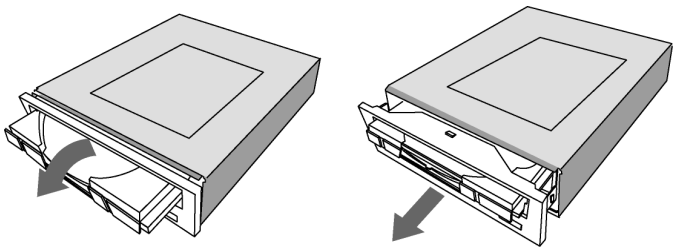

Figure 31: Pull forward gently to remove the front bezel

CAUTION: Do not touch any of the internal components that are visible.

10. Position the new bezel in front of the drive and slide it gently in place. Ensure that the top clip and all three bezel hooks lock into place.

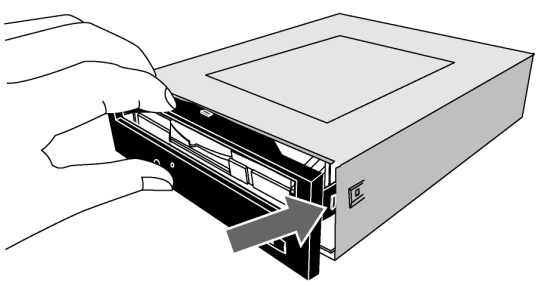

Figure 32: Slide the new bezel into position and make sure all three bezel hooks snap into place

11. Install the new tray face plate by pressing the L-shaped forms on both sides of the face plate into the rib of the disc tray, and sliding the face plate downward until the two hooks are fixed.

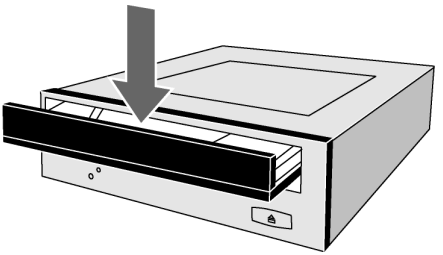

Figure 33: Install the tray face plate, close the disc tray gently, and reinstall the drive in the computer

To install the drive in your computer, go to "Mount the PX-750A Drive" on page 14.

Troubleshooting

If you have problems during or right after installation of your drive, first make sure the drive is recognized. If you still have problems, visit the Plextor web site for tips and troubleshooting help.

Make Sure the Drive Is Recognized

If you're having trouble after installation, make sure the PX-750 drive is recognized by your computer. To check whether the drive is recognized:

To see if the drive is recognized in Windows:

1. Turn the computer ON. After the computer boots up, you should see the Windows display.
2. Open Windows Explorer or My Computer and ensure there is an icon for the Plextor drive, the hard disk, and another DVD or CD-ROM drive, if present. The Plextor icon may be D: or E: or another designator.

If the PX-750A drive isn't recognized in Windows:

1. If the PX-750A drive is not recognized in Windows, reboot the computer and use your computer's setup program to program the BIOS to recognize it.

   NOTE: Refer to the computer's documentation for information on how to run the motherboard BIOS setup program.

   For the PX-750A, use the motherboard BIOS setup program to set up IDE Master and Slave designations, as needed for your configuration, on the primary or secondary IDE bus. If the IDE interface is disabled on your computer, you will need to enable it. If a Master or Slave device is set to "disable" or "none" or a similar designation, change it as appropriate to "enable" or "auto" (or something similar, depending on your setup program).

2. Save and exit your CMOS setup to restart your computer with the new settings.

3. In Windows 2000 or XP, right-click on the My Computer icon and select Properties. Click on the Hardware tab, then click on the Device Manager button. Click the + sign next to the DVD/CD-ROM drives heading and look for the "PLEXTOR DVDR PX-750A" entry underneath.

If you do not see this drive listed as one of the devices, or if it has a yellow diamond with an exclamation point (!), contact Plextor Technical Support. (See "Appendix B: Technical Support" for the different ways you can contact us.)

If the PX-750UF drive isn't recognized in Windows:

- If your USB or IEEE 1394 controller has a yellow diamond with an exclamation point (!), contact your PC or motherboard manufacturer for help, and to troubleshoot your controller for driver compatibility or conflicts. It may just be a matter of obtaining the latest driver, or a motherboard BIOS update, from the manufacturer.

- If the USB or IEEE 1394 controller is listed and does not have a yellow diamond with an exclamation point, but the Plextor drive is listed as a "USB" or "IEEE 1394 Storage device," select the "Storage device" and then select the "Remove" button. Reboot your system. The system will do another hardware scan and should install the driver properly.

If you still have problems, or if the USB or IEEE 1394 controller is listed and does not have a yellow diamond with an exclamation point, but you do not see the Plextor drive listed as one of the devices, contact Plextor Technical Support. (See "Appendix B: Technical Support" for the different ways you can contact us.)

6. Frequently Asked Questions

Q: Why do I need an 80-conductor IDE cable for the PX-750A?
Your PX-750A will operate with either the older 40-conductor cable or the newer 80-conductor IDE/ATA cable. However, the 80-conductor cable improves performance, and the PX-750A may not be able to write at maximum speed (16X) without it. Although the new cable has 80 conductors (wires), it still has only 40 connector pins, so it's compatible with the connector on your PX-750A. (The extra wires are present to reduce interference that would slow high-speed transfers.)

Q: Is the PX-750A a DVD Multi Recorder?
Yes. The DVD Multi specification requires that DVD Multi Recorders read and write DVD-ROM (prerecorded), DVD-R (General), DVD-RW and DVD-RAM discs. Because the PX-750A conforms to the DVD Multi specification, it can read and write the formats used by today's computers and consumer electronic (CE) DVD devices. (Note that DVD Multi does not prescribe that devices should accommodate DVD-RAM cartridges or 8-cm discs.)

Q: Which is better, DVD+R and DVD+RW? Or DVD-R and DVD-RW?
A: Neither is "better" or "worse." They're just different standards, like English versus metric measurement.

Different manufacturers support different standards. The DVD+R and DVD+RW formats are supported by Plextor, Philips, Sony, Hewlett-Packard, Dell, Ricoh, Yamaha and other manufacturers. DVD-R, DVD-RW and DVD-RAM are also supported by Plextor, as well as Panasonic, Toshiba, Apple Computer, Hitachi, NEC, Pioneer, Samsung and Sharp.

No matter which format a DVD disc is recorded in, it can be read by most commercial DVD-ROM players.

Q: What's the difference between "double layer" and "dual layer"?
A: Nothing, really. It's simply a difference of opinion within the industry about how to label media and drive capabilities. DVD+R DL (as named by the DVD+RW Alliance) stands for DVD+R Double Layer. DVD-R DL (from the DVD Forum) stands for DVD-R Dual Layer. Whether your DL media is labeled "double layer" or "dual layer," the PX-750 can handle it.

Q: What is “recommended media”?
A: Recommended media are recordable or rewritable CD and DVD media that have been tested by Plextor and found to operate well consistently, from one manufacturing lot to another. For each drive, Plextor engineers test media from many different manufacturers and manufacturing facilities, creating a recommended media list and determining the optimum write strategy for that particular media type. The results are listed as “recommended media,” and are also assembled into a media catalog and stored in firmware in Plextor drives. (See the Plextor web site at www.plextor.com for a list of recommended media for the PX-750.)

From time to time, the media catalog is updated with new manufacturers and part numbers as Plextor tests additional media. When this happens, Plextor makes new drive firmware available. You can download this new firmware and update your drive.

Q: In the list of Recommended Media, what’s the difference between “rated,” “compatible,” and “recommended” speeds?
A: “Rated” is the manufacturer’s rated write speed for the media; it’s what you see on the box. “Compatible” is a looser term that indicates the maximum safe writing speed according to the manufacturer. “Recommended” is the Plextor-recommended speed for ensuring top-quality writing using this media. Plextor tests media and enters the “compatible” and “recommended” speeds into the drive’s media catalog.

For example, 8X-rated media listed as “12X writing recommended” and “16X compatible” indicates the manufacturer believes this 8X-rated media can be written at 16X. Plextor factory testing has determined you will achieve the highest quality write at 12X. Plextor’s testing also indicates you can write this media at 16X and still achieve good quality, although perhaps not as high as at the recommended speed.

Just because the vendor rates a disc for a certain speed doesn't mean that the disc will give you a high-quality write at that speed. However, the PoweRec technology in your Plextor drive ensures you will write at the highest possible speed that still achieves high quality.

Q: What are the transfer rates for the different PX-750UF interfaces?
A: Different interfaces have different maximum transfer rates. The following table compares the transfer rates for the different interfaces.

Interface	Maximum Transfer Rate
USB 2.0 (Hi-Speed)	480 Mbps max.
USB 1.1 (Full-Speed)	12 Mbps max.
IEEE 1394 (FireWire)	400 Mbps max.

Actual transfer rates in the real world depend on the type of media and software you’re using, and on the type of data being transferred.

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Appendix A: PX-750 Specifications

This appendix shows specifications for all PX-750 drives, followed by unique specifications for the PX-750A and PX-750UF.

Specifications for All PX-750 Drives

Usable Formats

Logical DVD Read/Write	DVD-ROM, DVD-Video, Multi-Border, Multi-Session, DVD+VR, DVD-VR
Logical CD Read/Write	CD-DA, CD-ROM Mode-1, CD-ROM Mode-2, CD-Extra, CD-ROM XA, Photo CD, Video CD, Multi-Session, CD-TEXT, CD-I, Mixed CD. Also CD+G (read only).
Write Methods, DVD+R/RW, DVD+R DL	▪ DVD+R: Disk-At-Once (DAO), Multi-Session, Incremental Recording ▪ DVD+RW: Sequential Write ▪ DVD+R DL: Disk-At-Once (DAO)
Write Methods, DVD-R/RW, DVD-R DL	▪ DVD-R: Disk-At-Once (DAO), Multi-Border Recording ▪ DVD-RW: Disk-At-Once (DAO), Multi-Border Recording, Restricted Overwrite ▪ DVD-R DL: Disk-At-Once (DAO)
Write Methods, CD-R/RW	Track-At-Once (TAO), Disk-At-Once (DAO), Packet Write (variable and fixed), Session-At-Once (SAO), Multi-Session, CD-MRW (Mt. Rainier)
Write Methods, DVD-RAM	Random Access Write

Supported Media

Supported Media, DVD	▪ Stamped DVDs: Single layer / Double layer ▪ DVD-R: For General Part 1 Physical Specification Version 2.0 and 1.1 ▪ DVD-RW: Part 1 Physical Specification Version 1.1 ▪ DVD-R DL: Physical Specification Version 1.0 ▪ DVD+R: Part 1 Volume 1 Basic Format Specification Version 1.3 ▪ DVD+R DL: Part 2 Basic Format Specification Version 1.0 ▪ DVD+RW: Part 1 Volume 1 Basic Format Specification Version 1.3; Part 1 Volume 2 Basic Format Specification Version 1.0. Maximum 154 sessions. ▪ DVD-RAM: Part 1 Physical Specification Version 1.0 and 2.0
Supported Media, CD	▪ Stamped CDs: Discs compliant with Red/Yellow/Green/White/Blue Book ▪ CD-R: Orange Book Part II Volume 1, Volume 2 ▪ CD-RW: Orange Book Part III Volume 1, Volume 2, Volume 3
Supported Media Size	CD-R/RW: 12 cm DVD: 12 cm DVD+R/RW: 12 cm DVD-R/RW: 12 cm, 8cm

Recommended Media

You can use virtually any media in your PX-750 and be assured of the best possible write quality. However, Plextor-recommended media are recordable or rewritable CD and DVD media that have been tested by Plextor and found to operate consistently well, from one manufacturing lot to another. For each drive, Plextor engineers test media from many different manufacturers and manufacturing facilities, creating a recommended media list and determining the optimum write strategy for that particular media type. The results are listed as "recommended media," and are also assembled into a media catalog and stored in firmware in Plextor drives.

See the Plextor web site at www.plextor.com for the latest list of recommended media for the PX-750.

In the media lists:

- "Rated" is the manufacturer's rated write speed for the media; it's what you see on the box.

- "Compatible" is a looser term that indicates the maximum safe writing speed according to the manufacturer.

- "Recommended" is the Plextor-recommended speed for ensuring top-quality writing using this media.

Plextor tests media and enters the "compatible" and "recommended" speeds into the drive's media catalog.

Performance Specifications

Read Speed, DVD

	Stamped DVD		DVD ±R	DVD ±RW	DVD ±R DL	DVD-RAM
	SL	DL				
16X CAV	✓	–	–	–		–
10X CAV	–	–	✓	–	–	–
8X CAV	✓	✓	✓	✓	✓	–
5X CLV	–	–	–	–	–	✓
4X CAV	–	✓	–	✓	✓	–
3X CLV	–	–	–	–	–	✓
2X CLV	✓	✓	✓	✓	✓	✓
1X CLV	–	–	–	–	–	✓

NOTES: SL = Single layer disc, DL = Double layer disc.

Reading of DVD-RAM version 2 (4.7GB) discs is at 1X, 2X, 3X, and 5X. Reading of version 1 (2.6GB) discs is at 1X CLV only.

Performance Specifications (continued)

Read Speed, CD

Speed	Mode-1 Discs	Mode-2 Discs	CD-DA Discs
40X CAV	Stamp,R, RW	Stamp,R, RW	Stamp,R, RW
24X CAV	Stamp,R, RW	Stamp,R, RW	Stamp,R, RW
16X CAV	Stamp,R, RW	Stamp,R, RW	Stamp,R, RW
4X CLV	Stamp,R, RW	Stamp,R, RW	Stamp,R, RW

NOTE: “Stamp” indicates commercially pressed “silver” discs.

Performance Specifications (continued)

Write Speed, DVD ± R/RW

Speed	+R	+RW	+R DL	–R	–RW	–R DL	RAM
16X CAV	✓	–	–	✓	–	–	–
8X PCAV	✓	–	–	✓	–	–	–
8X ZCLV	–	✓	✓	–	–	✓	–
6X CLV	–	✓	✓	–	✓	✓	–
5X CLV	–	–	–	–	–	–	✓
4X CLV	✓	✓	✓	✓	✓	✓	–
3X CLV	–	–	–	–	–	–	✓
2X CLV	✓	✓	✓	✓	✓	✓	✓
1X CLV	–	–	–	–	–	–	✓

NOTES: DVD-R DL 8X ZCLV and 6X CLV writing supported by firmware upgrade.

DVD-RAM writing at 2X, 3X, and 5X is for version 2 (4.7GB) only.

Performance Specifications (continued)

Write Speed, CD-R/RW

Speed	CD-R	Ultra Speed CD-RW Media	High Speed CD-RW Media	Normal Speed CD-RW Media
40X CAV	✓	–	–	–
32X PCAV	✓	–	–	–
24X PCAV	–	✓	–	–
16X CLV	✓	–	–	–
10X CLV	–	✓	✓	–
4X CLV	–	–	✓	✓

Performance Specifications (continued)

DVD Transfer Rate

Speed	Write (KB/s)	Read (KB/s)
16X	22160	22160
12X	16620	16620
8X	11080	11080
6X	8310	8310
5X	6925	–
4X	5540	5540
3X	4155	–
2.4X	3324	–
2X	2770	–
1X	1385	–

CD Transfer Rate

Speed	Write (KB/s)	Read (KB/s)
40X	6000	6000
32X	4800	4800
24X	3600	3600
16X	2400	2400
12X	1800	1800
10X	1500	1500
4X	600	–

Initialization Time

Time measured from power on until disc is available to read:

- CD: 20 sec
- DVD: 25 sec
- DVD-RAM: 45 sec

Access Time

Time measured from command phase until bus free (no disconnect):

- DVD: 140 msec. (Typical)
- CD: 130 msec. (Typical)

Sleep Mode

Entered 2 min after data transfer stop

Wake Mode

7 sec to wake up after sleep mode

Environmental Conditions

Mounting Position	Horizontal or vertical orientation: ▪ Horizontal: 0 degrees ±15 degrees ▪ Vertical: 0 degrees ±15 degrees (front to back tilt), 0 degrees ±5 (left to right tilt)
Operating Temperature	PX-750A: 5 to 40 degrees Celsius PX-750UF: 5 to 35 degrees Celsius
Operating Humidity	20 to 80% (non-condensing)
Transportation or Storage Temperature	–40 to 60 degrees Celsius
Transportation or Storage Humidity	20 to 95% (non-condensing)
Acoustic Noise	▪ Balanced disc: Maximum 47.5dB ▪ Unbalanced disc: Maximum 47.5dB ▪ Eject: Maximum 60 dB
Vibration, Operating	Sine wave sweep for 5 minutes: ▪ CD Read: 0.15 $G_{0\text{-}Pk}$ (5-300 Hz) ▪ DVD Read: 0.15 $G_{0\text{-}Pk}$ (5-300 Hz) ▪ CD-R Write: 0.15 $G_{0\text{-}Pk}$ (5-300 Hz) ▪ CD-RW Write: 0.10 $G_{0\text{-}Pk}$ (5-300 Hz) ▪ DVD Write: 0.10 $G_{0\text{-}Pk}$ (5-300 Hz)
Vibration, non operating	$0.75_{0\text{-}Pk}$ (7-800 Hz)

Environmental Conditions (continued)

Shock, Operating	11-msec half sine wave with 10-sec interval: ▪ CD read (horizontal orientation): $5.0G_{0\text{-}Pk}$ ▪ CD read (vertical orientation): $2.5G_{0\text{-}Pk}$ ▪ DVD read (horizontal orientation): $5.0G_{0\text{-}Pk}$ ▪ DVD read (vertical orientation): $2.5G_{0\text{-}Pk}$ ▪ CD-R write: $1.5G_{0\text{-}Pk}$ ▪ CD-RW write: $0.5G_{0\text{-}Pk}$ ▪ DVD-RW write: $0.5G_{0\text{-}Pk}$
Shock, Non-Operating	$50G_{0\text{-}Pk}$ (11-msec half-sine wave)
Electrostatic Discharge	±8KV aerial discharge ±4KV contact discharge

Reliability

MTBF	60,000 hours
Tray Loading	50,000 load/unload cycles
Read Error Rate	CD-ROM Mode 1: 1 block/10^{12} bits CD-ROM Mode 2: 1 block/10^{9} bits DVD-ROM: 1 block/10^{12} bits

DVD Regional Setting

Compatibility	RPC phase-2-compatible
Changing regional setting	Max. 5 times

Other Features

Data Buffer	2 MB

Specifications for PX-750A Internal ATAPI Drive

Minimum System Requirements, PX-750A Internal ATAPI Drive

Computer	Pentium 4, 1.4-GHz or equivalent
Minimum RAM	256 MB
Hard Disk Size	1 GB of free space to write to a CD in image mode, or 10 GB of free space to create DVD images. (For more accurate guidelines, see the help files or documentation for the recording software you're using.)
Interface	IDE (ATAPI) supported
Operating System	Windows XP or 2000

Front Panel, PX-750A Internal ATAPI Drive

Eject	Eject button; manual emergency eject; software eject.
Disc/Busy Indicator	▪ Steady green when reading disc ▪ Blinking green when writing to disc
Disc Loading	Auto

Rear Panel, PX-750A Internal ATAPI Drive

Power Supply

	DC +12V, ±10%	DC +5V, ±5%
Typical standby current	100 mA	300 mA
Typical DVD read current (at max speed)	600 mA	850 mA
Typical CD read current (at max speed)	500 mA	750 mA
Typical DVD write current (at max speed)	700 mA	1200 mA
Typical CD write current (at max speed)	500 mA	900 mA
Typical pause current	1400 mA	700 mA
Peak current	1800 mA	1500 mA

Rear Panel, PX-750A Internal ATAPI Drive (continued)

Power Consumption	Average 13.0 W
IDE Interface Connector	IDE bus, 40-pin flat ribbon type. Interface complies with ATA/ATAPI-5. Must use 80-conductor IDE/ATA cable. **NOTE**: Although the PX-750A will operate with a 40-conductor cable, it may not be able to write at 16X unless an 80-conductor IDE/ATA cable is used. Maximum total cable length cannot exceed 18 in (45.7 cm).
Analog Audio Output Connector	▪ Stereo analog output, Molex connector (L*G*G*R), MPC-3 standard ▪ Output voltage: 0.75 V ±10% ▪ Load impedance: 470 ohms ▪ S/N ratio: 76 dB ▪ Total harmonic distortion + noise: Max –65 dB ▪ Outband attenuation: Min 50 dB ▪ Channel separation: Min 70 dB ▪ Frequency response: 20Hz-20kHz
Digital Audio Output Connector	Digital audio output for input to SPDIF or Digital-In input
Mode Jumper	Master (default), slave, cable select (CSEL)

Dimensions and Weight, PX-750A Internal ATAPI Drive

Dimensions (W/H/D) (including front bezel)	5.75" x 1.67" x 6.69" 146 mm x 42.5 mm x 170.0 mm
Weight	< 1.76 lbs. (800 g)

Host Interface, PX-750A Internal ATAPI Drive

Type	ATA/ATAPI
PIO Transfers	Modes 0-4
Multiword DMA Transfers	Modes 0-2
Ultra DMA Transfers	Modes 0-2
ATAPI Command Set	ATA-6, MMC-3
Inquiry string	PLEXTOR sp DVDR sp sp sp PX-750A sp sp (where “sp” is one space)

Safety, Laser, and EMC Standards, PX-750A Internal ATAPI Drive

Country/ Region	Type	Agency	Standard
USA	Safety	CSA	CSA 622.2 No. 60950-1-03; UL No. 60950-1
	Laser	FDA	CDRH Class 1
	EMC	FCC	FCC Part 15B Class B
Canada	Safety	CSA	CSA 22.2 No. 60950-1
Europe	Safety	CE	EN60950-1
	Laser	CE	EN60825-1
	EMC	CE	EN50022 Class B
Taiwan	EMC	BSMI	

Specifications for PX-750UF External USB/FireWire Drive

Minimum System Requirements, PX-750UF External USB/FireWire Drive

Computer	Pentium 4, 1.4-GHz or equivalent; or Power Macintosh G3 or later (G4 or higher recommended)
Minimum RAM	256 MB
Hard Disk Size	1 GB of free space to write to a CD in image mode, or 10 GB of free space to create DVD images. (For more accurate guidelines, see the help files or documentation for the recording software you're using.)
Interface	USB 1.1 or 2.0 supported IEEE 1394/FireWire supported (On-board USB 2.0 or IEEE 1394/FireWire controller suggested)
Operating System	PC: Windows XP or 2000 Macintosh: Mac OS X

Front Panel, PX-750UF External USB/FireWire Drive

Eject	Eject button; manual emergency eject; software eject
Disc/Busy Indicator	▪ Steady green when reading disc ▪ Blinking green when writing to disc
Disc Loading	Auto

Rear Panel, PX-750UF External USB/FireWire Drive

DC 12V Connector (Power Supply): AC 100~240V, 50/60 Hz

Power Consumption (Typical): 18 W

Current

	USB	IEEE 1394
Typical standby current	300 mA	400 mA
Typical DVD read current (at max speed)	1300 mA	1300 mA
Typical CD read current (at max speed)	1000 mA	1000 mA
Typical DVD write current (at max speed)	1700 mA	1700 mA
Typical CD write current (at max speed)	1300 mA	1300 mA
Typical pause current	1300 mA	1300 mA
Peak current	2600 mA	2600 mA

Power Switch: Turns power on and off. Power OFF is O; power ON is |.

1394-USB Switch: Interface switch: switches the PX-750UF drive to operate with a different interface (USB or IEEE 1394)

IEEE 1394 Connectors: 4-pin and 6-pin connectors for attaching an IEEE 1394 (FireWire) cable. Does not provide bus power. Use only the FireWire cable shipped with your PX-750UF.

USB Connector: Connector for attaching USB cable. Does not provide bus power. Use only the USB cable shipped with your PX-750UF. You can connect to a USB 2.0 or USB 1.1 interface.

Top Panel, PX-750UF External USB/FireWire Drive

Power Indicator	Blue when power is on

Dimensions and Weight, PX-750UF External USB/FireWire Drive

Dimensions (W/H/D) (including front bezel)	6.58" x 2.09" x 9.98" 167.1 mm x 53 mm x 253.5 mm
Weight	<3.3 lbs. (1.5 kg)

Host Interface, PX-750UF External USB/FireWire Drive

Type	USB: B-type IEEE 1394: 6pin/4pin
Data Connector	USB: B-type IEEE 1394: 6pin/4pin
USB 2.0 Transfers	Hi-Speed; 480 Mbps (max)
USB 1.1 Transfers	Full-Speed; 12 Mbps (max)
IEEE 1394 Transfers	IEEE Std 1394-1995, IEEE 1394a-2000 400 Mbps (max)
Inquiry String	PLEXTOR sp DVDR sp sp sp PX-750A sp sp (where “sp” is one space)
ATAPI Command Set	ATA-6, MMC-3

Safety, Laser, and EMC Standards, PX-750UF External USB/FireWire Drive

Country/ Region	Type	Agency	Standard
USA	Safety	UL and CSA	UL No. 60950-1 (AC adapter and drive); CSA 622.2 No. 60950-1-03 (internal drive)
	Laser	FDA	CDRH Class 1
	EMC	FCC	FCC Part 15B
Canada	Safety	UL and CSA	CSA 22.2 No. 60950-1 (AC adapter and drive)
Europe	Safety	CE	EN60950-1 (AC adapter and drive)
	Laser	CE	EN60825-1 (internal drive)
	EMC	CE	EN50022 Class B
Taiwan	EMC	BSMI	

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Appendix B: Technical Support

Store Plextor's e-mail, web site, phone, and fax numbers in a convenient location. Keep your drive's serial number and a copy of your sales receipt handy as well.

If you experience a problem while installing or operating your drive, please refer first to the relevant sections of this manual regarding setup and installation (Sections 1–3). If you do not uncover the solution there, please refer next to the maintenance and troubleshooting section that begins on page 55. You may also wish to refer to the Frequently Asked Questions (FAQ) section of our web site to assist you in troubleshooting the problem on your own.

NOTE: We encourage you to go the Plextor web site (www.plextor.com) before attempting to contact Technical Support. The answers to the most common questions callers ask can be found quickly in the support area. Select PlexHelper for online troubleshooting or FAQs for answers to common questions.

If you have not been successful in your quest, our Technical Support Department will help you solve problems that relate specifically to your PX-750A drive. In many cases, a problem that appears to be caused by your Plextor drive actually originates in another part of your computer. In such instances, our technical support staff will try to help you identify the part at fault and will refer you to the manufacturer of that part for further assistance.

How to Contact Plextor Technical Support

There are several ways for you to contact Plextor's Technical Support Department:

- Visit our web site (www.plextor.com) for answers to Frequently Asked Questions.

- Send us e-mail (techsupport@plextor.com). Include your telephone number and the hours during which you can be reached. Be as detailed as possible in describing your problem. Please include system configuration, hardware and software, as well as versions of drivers used.

- Call 1-800-204-0332 or 937-615-1610 and select the tech support option.

Before You E-mail or Call for Support

Please gather as much of the following information as possible before contacting us.

- The serial number and TLA (top level assembly) number of your PX-750 drive. Your serial number and TLA number appear on the drive label.

- The latest version of firmware you loaded onto the drive, if applicable.

- The version of the Windows operating system you are using.

- The brand name and model number of your computer (e.g., Dell 466/NP, Hewlett-Packard Pavilion 752n, etc.).

- The type of VGA, Super VGA, or other graphics board you use.

- Brand name and model number of any other peripherals you have installed or connected to your computer (e.g., CD-ROM, scanner, fax board, network board).

Returns

In the unlikely event that you need to return a drive to Plextor, you need an RMA (Returned Materials Authorization) number. You will need this number before any Plextor drive can be returned for replacement. Here's how you get an RMA number and return your drive:

1. Contact Plextor Technical Support. You will receive assistance in troubleshooting your system. If the drive is determined to be defective, you will receive an RMA number.

2. Plextor will e-mail you with the RMA number and shipping information.

3. When you receive the RMA number, pack the Plextor drive securely in a box, and include the RMA number with the drive.

4. Write the RMA number in large bold numbers on the outside of the box, and ship it to Plextor.

Contacting Plextor's RMA Department

You can contact our RMA Department and request an RMA number at:

- rmasupport@plextor.com
- Or by calling us at 1-800-204-0332 or 937-615-1610.

Packing Your Drive

Check the drive to make sure there is no disc inside, and if possible, pack your drive in the original box. Some of our customers have not held on to their boxes and have had to resort to less-than-secure methods to get drives back to us.

Do not include the AC adapter if you are shipping a PX-750UF drive.

CAUTION: Never ship the drive with a CD or DVD disc inside it.

If you did not receive a box (for example, your drive came pre-installed in a computer), we recommend you pay a packaging store (such as The UPS Store) to ship your drive. If you don't have a packaging store in your area, ask for packaging pointers when you contact us to get an RMA number before returning any drive.

Shipping Your Drive to Plextor

Be sure to write the RMA number on the outside of the shipping box. Any drive sent to Plextor without an RMA number will not be accepted.

NOTE: The RMA number must be clearly visible on the outside of the shipping box.

Drives must be sent postage prepaid. We recommend that you insure your shipment, as Plextor cannot be held responsible for any damage that may occur during shipment.

Appendix C: Warranty

PLEXTOR CORP. ("Plextor") warrants your PX-750A or PX-750UF drive against any defect in material and workmanship, under normal use, for a period of one year following its date of purchase. In the event this product is found to be defective within the warranty period, PLEXTOR will, at its option, repair or replace the defective unit.

This warranty is void: a) if the unit is operated or stored under abnormal use and/or conditions; b) if the unit is repaired, modified or altered, unless such repair, modification or alteration is expressly authorized in writing by PLEXTOR; c) if the unit is subjected to abuse, neglect, lightning strike, electrical fault, improper packaging, or accident; d) if the unit is installed improperly; or e) if the serial number of the unit is defaced or missing.

PLEXTOR will not, under any circumstances, be liable for direct, special, or consequential damages such as, but not limited to, damage or loss of property or equipment, loss of profits or revenues, cost of replacement goods, or expense or inconvenience caused by service interruptions. Under no circumstances will any person be entitled to any sum greater than the purchase price paid for the unit.

To obtain warranty service, you must contact PLEXTOR's Technical Support Department by e-mail (techsupport@plextor.com) or by calling 1-800-204-0332 or 937-615-1610. The Technical Support Department will attempt to diagnose and correct your problem. If the unit does not function properly, they will provide you with a Return Material Authorization (RMA) number. You may be asked to furnish proof of purchase to confirm that the unit is still under warranty.

All product returns must be authorized in advance by PLEXTOR. Authorization is confirmed by issuance of the RMA number, which must be written prominently on the outside of the box in which the defective unit is returned to PLEXTOR.

All drives returned to PLEXTOR must be securely packaged and shipped postage prepaid.

The drive will be returned to the customer at Plextor's expense when originating within the United States. For a drive originating outside of the United States, the customer is responsible for shipping costs in both directions.

NOTE: Warranty validity is limited to that applicable in the location where the drive was originally purchased.

If You're Outside the U.S. or Canada

Note that the warranty and RMA policy only apply to the United States and Canada. If you are in South America, contact your dealer or reseller for all warranty and RMA claims.

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