

ASUS[®]

DVD-ROM Drive

ATAPI / Enhanced IDE Interface



USER'S MANUAL

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Product Name:	ASUS DVD-ROM Drive
Manual Revision:	1.00 E411
Release Date:	August 1999

FCC & DOC COMPLIANCE

Federal Communications Commission Statement

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

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

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING! Any changes or modifications to this product not expressly approved by the manufacturer could void any assurances of safety or performance and could result in violation of Part 15 of the FCC Rules.

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 à la norme NMB-003 du Canada.

SAFETY WARNINGS

ASUS DVD-ROM Drive Safety Warnings

CLASS 1 LASER PRODUCT

APPAREIL A LASER DE CLASSE 1

KLASSE 1 LASER APPARAT

LUOKAN 1 LASERLAITE

PRODUIT LASER CATEGORIE 1

CAUTION INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.

ADVARSEL LASERSTRÅLING VED ÅBNING SE IKKE IND I STRÅLEN.

ADVARSEL LASERSTRÅLING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN.

VARNING LASERSTRÅLNING NÅR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN.

VARO! AVATTAESSA OLET ALTTIINA LASERSÄTEILYLLE.

VARNING LASERSTRÅLNING NÅR DENNA DEL ÄR ÖPPNAD. ÄLÄ TUIJOTA SÄTEESEEN. STIRRA EJ IN I STRÅLEN.

VORSICHT UNSICHTBARE LASERSTRAHLUNG WENN GEÖFFNET. NICHT IN DEN STRAHL SEHEN.

ATTENTION RADIATION DU FAISCEAU LASER INVISIBLE EN CAS D'OUVERTURE. EVITER TOUTE EXPOSITION AU FAISCEAU.

CAUTION USE OF ANY CONTROLS OR ADJUSTMENTS OR PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. TO PREVENT EXPOSURE TO LASER EMANATIONS (HARMFUL TO HUMAN EYES), **DO NOT** ATTEMPT TO DISASSEMBLE THIS UNIT.

I. INTRODUCTION

Thank you for purchasing an ASUS DVD-ROM Drive. The DVD-ROM Drive adds multimedia capabilities, such as sound and video, into your system.

DVD-ROM, short for Digital Versatile Disc Read-Only Memory or Digital Video Disc Read-Only Memory, is a type of read-only compact disk that can hold a minimum of 4.7GB, enough for a full-length movie or hours of music.

One of the many compelling reasons to upgrade to an ASUS DVD-ROM Drive is its backward-compatibility with CD-ROMs. Thus, you will be able to take advantage not only of the growing number of DVD-ROM titles today for your entertainment, education, and productivity but also the thousands of CD-ROM titles currently available. This means that your ASUS DVD-ROM Drive can play old CD-ROMs, CD-I disks, CD-R disks, and VCDs, and of course, DVD-ROMs.

Another reason is that the ASUS DVD-ROM Drive is connected by means of the IDE connector of your computer. This connector is usually used to install the hard disk to your computer. By using the IDE connection, you avoid the need to use an interface card.

This User's Manual explains how to install the ASUS DVD-ROM Drive and the software to use your new drive. Installation is quick and easy if you follow the instructions carefully.

You'll also learn from this manual how to use your ASUS DVD-ROM Drive and detect and solve any problems you might encounter.

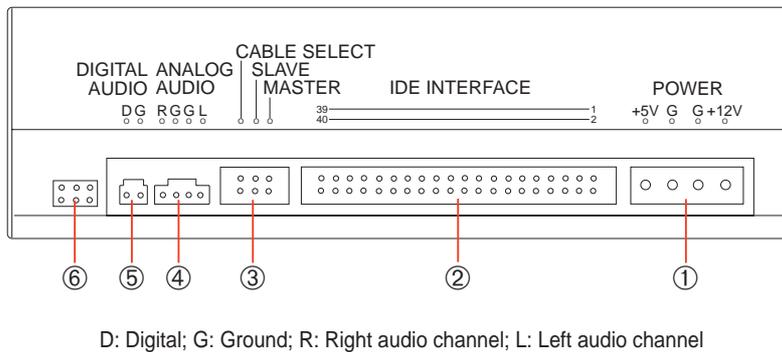
Item Checklist

The package should contain the following items along with the drive. Check to see if you have all these items. If you discover damaged or missing items, contact your retailer.

- (1) DVD-ROM Drive
- (1) Audio cable
- (1) bag of mounting screws
- (1) installation disk
 - DVD-ROM driver
 - Installation utility
 - Readme files for descriptions and use of the files
- (1) User's Manual

II. HARDWARE INSTALLATION

Rear Panel Features

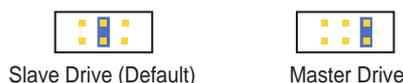


NOTE: The pin settings or definitions of the connectors and jumpers are also engraved on the Rear Panel of your DVD-ROM Drive.

- ① **Power Supply connector** connects to the computer's power supply.
- ② **IDE Interface connector** connects to the 40-pin interface cable.
- ③ **Device configuration jumper** allows you to set your DVD-ROM Drive as the Master or Slave drive. The default setting is Slave, wherein the jumper is on "SLAVE". "CABLE SELECT" is reserved and should not be used.
- ④ **Analog Audio line out connector** has two channels, right ("R") and left ("L") audio outputs, and allows you to direct audio output from your DVD-ROM Drive to your sound card when connected using a CD audio cable. "G" is for Ground.
- ⑤ **Digital Audio output connector** offers high quality audio effect by outputting digital signal to a D/A converter or for recording to a digital audio tape (DAT) or professional audio recording system. The connector follows the EBU-IEC958 standard set by the European Broadcast Union.
- ⑥ **Testing jumpers** are reserved for manufacturer's internal testing/diagnostic purposes.

Setting Your DVD-ROM Drive

Set your drive as either the Master or Slave (default) drive by placing the jumper cap on the desired jumper ③.

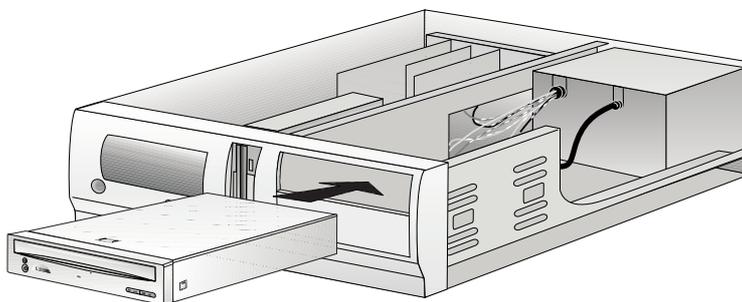


NOTE: If your computer only allows you to connect a maximum of two devices and you have two hard disks, remove the Slave hard disk — you need the other IDE connector for your DVD-ROM Drive. If you only have one hard disk, set your DVD-ROM Drive as Slave. If your computer has two IDE connectors and two hard disks installed, either set your DVD-ROM Drive as Master on the secondary IDE connector or remove the Slave hard disk and replace it with your DVD-ROM Drive. Refer to your computer's manual for your system's configuration and instructions on hardware installation.

II. HARDWARE INSTALLATION

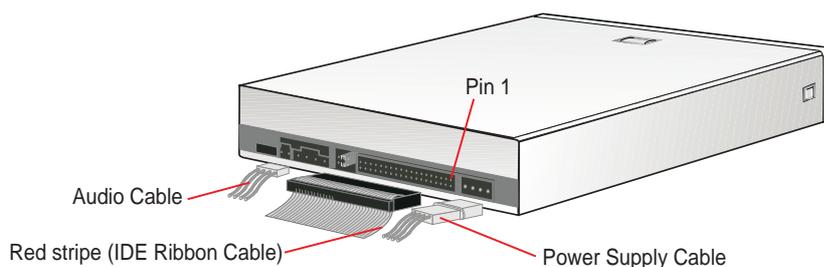
Inserting Your DVD-ROM Drive into Your Computer

Insert the DVD-ROM Drive into one of the free 5.25-inch bays available for disk drives.



NOTE: Do not slide the drive completely into the vacant drive bay. Leave some space at the rear so that it is easier for you to connect cables to your drive.

Connecting Cables to the DVD-ROM Drive



1. Connect an unused power supply cable to the back ① of your DVD-ROM Drive.
2. Connect the 40-pin IDE ribbon cable to the back ② of your DVD-ROM Drive.

NOTE: Orient the red stripe on the cable with Pin 1 of the DVD-ROM Drive's IDE Interface connector.

3. If you have a sound card, connect the 4-pin CD audio cable to the DVD-ROM Drive's *Analog Audio line out* connector ④. Otherwise, proceed to the next step.

NOTE: If the pin definitions on your sound card are not the same as that (see preceding section) on your DVD-ROM Drive, check with your dealer for a compatible cable.

4. If you do not have a sound card, plug earphones, headphones, or powered/self-amplified speakers to the Headphones Jack on your DVD-ROM's front panel (see DVD-ROM DRIVE OPERATION). Set the volume controls of your drive and powered/self-amplified speakers to minimum before starting or restarting your computer. This is to prevent possible damage to the earphones, headphones, or speakers.

NOTE: The **Headphones Jack** can only be used to listen to audio CD discs.

III. SOFTWARE INSTALLATION

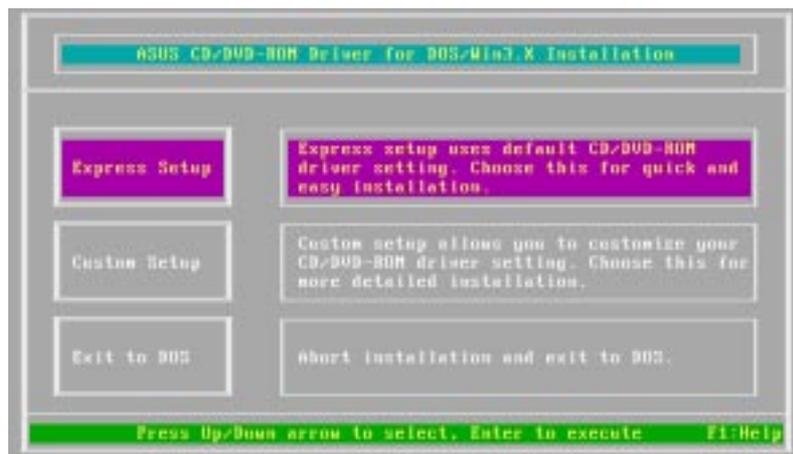
The DVD-ROM Drive comes with an ASUS CD/DVD-ROM Driver for DOS/Win 3.X Installation disk. The disk contents include:

- ASUSCD.SYS DOS/Win 3.x Driver
- INSTALL.EXE Installation utility
- README.TXT Description and use of the files
- DRIVER.TXT Description of the device driver parameters

In addition to the hardware-dependent driver, a software-dependent driver is installed: MSCDEX.EXE (version 2.21 or later), which is the Microsoft CD-ROM Extension, a standard mechanism for interfacing CD/DVD-ROM drives with computers. The driver comes with your operating system (OS), for example, MS-DOS.

DOS/Windows 3.x

1. Restart your computer in DOS Mode.
2. Insert the installation disk into either drive A or drive B.
3. Type **A: install** (or **B: install**) and then press [Enter].
4. Choose your preferred setup option and then follow the instructions on the screen.



5. Choose your preferred transfer mode and then press [Enter].
6. Highlight **Start Installation** and then press [Enter]. The installation utility will update your **AUTOEXEC.BAT** and **CONFIG.SYS** files with the appropriate settings and create the other options that you chose.
7. After the installation is completed, restart your computer.

Express Setup

Choose the express setup option for quick and easy installation. For most users, this option, which installs the default DVD-ROM driver setting, works just fine.

A directory, **C:\ASUS_CD**, containing the DVD-ROM Driver and installation file, is created during the installation, and your **AUTOEXEC.BAT** and **CONFIG.SYS**

III. SOFTWARE INSTALLATION

files will be updated with the following entered (depending on the OS installed in your computer; the following are for DOS or Windows 95):

```
AUTOEXEC.BAT: C:\DOS\MSCDEX.EXE /D:ASUSCD01
CONFIG.SYS:   DEVICE=C:\ASUS_CD\ASUSCD.SYS /D:ASUSCD01
              LASTDRIVE=Z
```

Custom Setup

Choose the custom setup option to customize installation settings, such as the target directory for the driver and installation files, and special settings.

To take advantage of the special settings to fully use your drive's capability, highlight **Transfer Mode** under the **Custom Setup** dialog box and then press [Enter]. The different transfer mode options will be displayed:

- **PIO Mode** or Programmed Input/Output Mode is the most common way computers transfer data to and from the disk drive. PIO Mode 4, which is the mode installed, differs only from the standard PIO transfer in how often the drive issues interrupts. In PIO Mode 4, each interrupt indicates the drive is ready for 4 sectors of data (read) or has completed the transfer of 4 sectors of data (write), compared with the one interrupt required in standard PIO for each sector. This eliminates some of the system overhead involved in a PIO transfer.
- **Multi-word DMA Mode** or Multi-word Direct Memory Access Mode is used in EISA-, VESA Local Bus-, and PCI-equipped systems. This mode is capable of very fast transfer rates using Bus Mastering. The advantage of using the Bus Master DMA is that it uses less CPU resources than PIO and therefore, it is useful in multitasking environments, where the CPU can work on a different program while data is transferred to or from the hard disk drive, or in your case, your DVD-ROM Drive.
- **Ultra DMA Mode**, also known as Ultra-ATA (ATA is the "official" name for what the computer industry calls IDE or Integrated Drive Electronics) or Ultra-DMA/33, is the latest advancements to the ATA specifications. Ultra-DMA, among others, almost doubles the maximum transfer speed of the ATA-3 standard and improves data integrity.

NOTE: These special settings require that you have a motherboard or install an adapter that supports either or all of these modes.

Windows 9x/Windows NT

If your DVD-ROM Drive is already installed, Windows 9x or Windows NT will automatically detect it and determine the appropriate settings for the drive and install or load the correct driver.

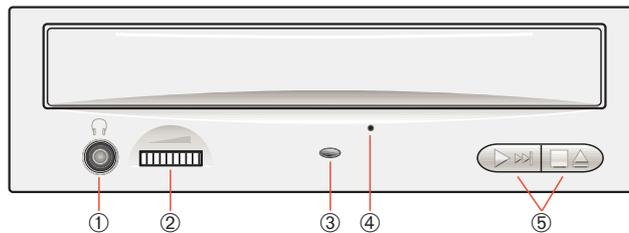
OS/2 and Other Operating Systems

Your DVD-ROM Drive supports the ATAPI drive interface. Your system should be able to automatically detect your DVD-ROM Drive and load the appropriate device driver.

IV. DVD-ROM DRIVE OPERATION

Now that you've installed your DVD-ROM Drive, you're ready to start using it. To start using your DVD-ROM Drive, you need to know how to (1) operate the DVD-ROM Drive using the controls on the front panel, (2) insert CD/DVD discs into and remove them from the drive, and (3) handle CD/DVD discs.

Front Panel Controls



- ① **Headphones Jack** allows you to connect a pair of earphones or headphones to the drive for private listening. It also allows you to connect a pair of powered/self-amplified speakers. Just plug them into the Headphones Jack.
- ② **Volume Controls** allows you to adjust the volume of your earphones, headphones or powered/self-amplified speakers connected to the Headphones Jack. This control has no effect on the audio output from devices (such as speakers) connected to your sound card.
- ③ **Disc Indicator** lights up when there is a disc inside your DVD-ROM Drive, otherwise this indicator will not light. This indicator flashes whenever your DVD-ROM Drive is busy reading information from your disc or when your drive is in use.
- ④ **Emergency Ejection Hole** allows you to manually eject the tray in case of power failure. See **Emergency Eject** for more information.
- ⑤ **Select Buttons** allows you to manually control your audio discs without having to run any software program.

Open/Close/Stop Button

The right button has three states: OPEN, CLOSE, and STOP. If tray is closed, pressing this button will OPEN or eject it. If tray is out, pressing this button will CLOSE it. If the drive is playing, pressing this button will momentarily STOP or pause CD playback.



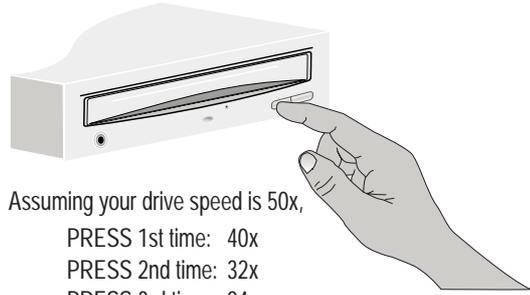
Play/Skip Button | Change Speed Button

The left button has three states: PLAY track and SKIP track, and CHANGE SPEED. If the drive is idle, pressing this button will start PLAYing audio CD discs from the first track on. If the drive has been momentarily STOPped or paused, pressing this button will resume CD playback or rePLAY the audio discs. If the drive is playing, pressing momentarily this button will SKIP to the next track of an audio CD disc.



Change Speed Function

When playing a CD-ROM format disc, you may want to reduce the speed. Pressing the left button for one second will reduce the CD-ROM drive speed in the following sequence (assuming your CD-ROM drive speed is 50x): 40x, 32x, 24x, 8x. For example, if the CD-ROM speed of your drive is 32x, pressing this button for one second will reduce the drive's speed to 24x and then pressing it for another second will reduce the speed to 8x. To reset the drive's speed to its topmost speed, press the **Open/Close/Stop** button to OPEN it and then press it again to CLOSE it.



Assuming your drive speed is 50x,

PRESS 1st time: 40x

PRESS 2nd time: 32x

PRESS 3rd time: 24x

PRESS 4th time: 8x

Wait at least 1 second for each interval

Emergency Eject

In case of power failure or if the tray of your DVD-ROM Drive won't open using the **Open/Close/Stop** button or your software, you may have to manually eject the tray.

NOTE: Use the manual method only when necessary or as a last resort. Do not use this method in lieu of the **Open/Close/Stop** button when, for example, you forgot to eject the tray while the computer is on. Turn your computer back on to eject the tray, if possible.

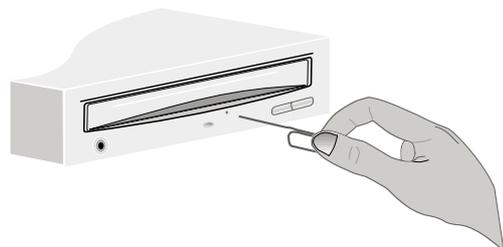
To manually eject the tray:

1. Turn off your computer.

WARNING! If you don't turn off your computer before you attempt to eject the tray using the steps below, you may damage your DVD-ROM Drive.

2. Locate the **Emergency Ejection Hole** of your DVD-ROM Drive. See **Front Panel Controls** for the location.
3. Insert the end of a large straightened paper clip about 3 cm (1.25 inches) into the **Emergency Ejection Hole**, slightly toward the right.
4. Push gently but firmly until the tray is released, then carefully pull the tray open.

WARNING! Do not force the tray open; wait until the paper clip has dislodged it to be sure you don't break the tray's front.



5. Remove the CD disc, turn on your computer, and press the **Open/Close/Stop** button of your DVD-ROM Drive to see if it is working properly.

NOTE: If ejecting the tray using a paper clip does not work, your DVD-ROM Drive may be damaged. Contact your dealer for further assistance.

V. TROUBLESHOOTING

General Problems

- PROBLEM** Unable to access DVD-ROM Drive.
- CAUSES**
1. The information in your CONFIG.SYS or AUTOEXEC.BAT or both files might be incorrect. (DOS only.)
 2. Some BIOS that include power management features use IRQ14 or IRQ 15, which should be reserved for IDE devices like your CD-ROM Drive. (DOS only.)
- SOLUTIONS**
1. Check the LASTDRIVE= entry in your CONFIG.SYS file. You might have to set the drive letter to one higher than your actual last drive letter. For example, if the last drive on your system is drive D, try setting the parameter in the CONFIG.SYS file to LASTDRIVE=E. (DOS only.)
 - Your DVD-ROM Drive requires the drivers, MSCDEX.EXE and ASUSCD.SYS, to access the drive. Check your AUTOEXEC.BAT file for the statement C:\DOS\MSCDEX.EXE / D:ASUSCD01 and CONFIG.SYS file for the statement DEVICE=C:\ASUS_CD\ASUSCD.SYS /D:ASUSCD01 (see **Software Installation** for more information). (DOS only.)
 2. Change the IRQ setting of the device that is using IRQ 14 or IRQ 15, for example, sound card or motherboard. Refer to the card or motherboard documentation for more information. (DOS only.)
- PROBLEM** Cannot detect the DVD-ROM Drive (Windows 9x or Windows NT).
- CAUSE** There are times when Windows cannot detect a new hardware.
- SOLUTION** Install the drivers manually.
- Start the **Add New Hardware** wizard by double-clicking **My Computer | Control Panel | Add New Hardware** and then follow the instructions on your screen.
- NOTE:** Let Windows detect your DVD-ROM Drive. Make sure you have installed and connected your DVD-ROM Drive in your computer before running the wizard.
- PROBLEM** No sound from speakers.
- CAUSES**
1. Audio cable or speakers are not connected properly.
 2. The volume is not adjusted to an audible level.
 3. The drive may be faulty.
 4. The card may be faulty.

-
- SOLUTIONS**
1. Check that the CD audio cable is connected to the Analog Audio line out connector on the drive and sound card. Check also that the pin definitions of your DVD-ROM Drive and sound card are the same. If not, check with your dealer for a compatible audio cable or ask a qualified technician to adjust the cables to match your DVD-ROM Drive's pin definitions. Also, check that the speakers are connected to the correct jack on the sound card.
 2. Make sure the volume control is turned up to an audible range.
 3. Connect earphones or headphones to the Headphones Jack. If there is no sound from your earphones or headphones, consult your dealer about your faulty drive.
 4. Connect earphones or headphones to the sound card's Headphones Jack. If there is no sound from your earphones or headphones, check to see the audio cable is connected from the drive to the sound card (refer to your sound card manual for more information). If the audio cable is connected and there is still no sound from your earphones or headphones, consult your dealer about your faulty card.

PROBLEM Cannot achieve the maximum data transfer rate performance specified for the DVD-ROM Drive.

- CAUSES**
1. If you are using a benchmarking utility, it may be old.
 2. The disc is not full.
 3. Given the signal quality issues with PIO Mode 4 transfer rates in some systems and such variables as error correction, caching, processor overhead, and rotational speed, higher transfer rates may not be achievable with the default transfer mode. Thus transfer rates may be lower.
 4. The disc you are playing may not be in a CD-ROM or DVD-ROM format.

- SOLUTIONS**
1. Upgrade your benchmarking utility to one that supports tests on the outer tracks of your drive. Your DVD-ROM Drive uses Constant Angular Velocity (CAV) technology, wherein the spindle motor is running at the same velocity, while the drive is accessing data at the inner or outer tracks. In this way, the drive will achieve lower data transfer rates at the inner tracks and higher transfer rates at the outer tracks. Thus using some or older benchmarking utilities, such as WinBench 96, will give lower data transfer rates because these utilities use the drive's inner tracks for its performance tests.

V. TROUBLESHOOTING

2. A disc will occupy only the inner tracks when it is not full. Thus, because of the way your DVD-ROM Drive accesses data (*see* preceding explanation on CAV technology), the drive will achieve lower data transfer rates. Use a full disc if possible to get the maximum transfer rate from your drive.
3. Change the transfer mode of your DVD-ROM Drive to Multiword or Ultra DMA Mode to maximize its capability.
 - For DOS, see **Custom Setup** under SOFTWARE INSTALLATION for more information.
 - For Windows 95 or Windows NT, Bus Master driver must be installed. Unless your computer dealer installed the driver when you bought it or your motherboard supports Bus Master mode, Windows will not use bus mastering for your CD-ROM Drive.
 - Click **My Computer | Control Panel | System | Device Manager | CD-ROM controllers**. If you are using the bus master, PCI Bus Master will be displayed. If not and your motherboard has the new PCI controller chipsets from Intel, for example, the 430TX or 440BX, but does not have a CMOS setting for Bus Master mode, you may have to get the driver from Intel. Check with your dealer for more information.
4. Your DVD-ROM drive reads data at different speeds depending on the disc format. Your DVD-ROM drive performs at its best when it is reading a CD-ROM or DVD-ROM format disc. With other formats, such as Audio CD or Video CD, data transfer rate performance may be slower than the maximum rate performance specified.

PROBLEM

Cannot display the directory on an audio CD disc with the DIR command.

CAUSE

The DIR command does not work with audio CD discs while in DOS. You can use the command, however, to display the directory on a data CD.

NOTE: You can use the DIR command to display the directory on an audio disc while in Windows using the command prompt or MS-DOS Prompt. Refer to your Windows manual on how to find the command prompt.

V. TROUBLESHOOTING

DVD-ROM Specific Problems

- PROBLEM** Cannot play any DVD movie.
- CAUSE* You may not have an MPEG-2 card and/or decoder software installed on your computer system.
- SOLUTIONS*
- Install an MPEG-2 card. To install an MPEG-2 card, you need at least a 166MHz Pentium, AGP motherboard, 32MB system memory, and Windows 95 OSR2.
 - Install a software-only DVD decoder. To install a software-only DVD decoder, you need at least a 300MHz Pentium II, AGP motherboard, 32MB system memory, AGP graphics card, sound card supporting 48MHz sample rate, and Windows 95 OSR2 with USB upgrade.
Contact your dealer for more information.
- PROBLEM** When playing a DVD movie, I get an error message about an invalid country or region code.
- CAUSE* DVD movies are regionally coded so you may be trying to play a DVD movie from a region other than the one specified for your MPEG-2 card or DVD player software.
- SOLUTION* Check your DVD movie to see which Region Code it has then purchase an MPEG-2 card and/or DVD player software specific for that region.



DVD-ROM Drive

ATAPI / Enhanced IDE Interface

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