

User Manual

MAGNAVOX

SMART. VERY SMART.

20MC4204**13MDTD20****COLOR TV WITH BUILT-IN DVD PLAYER**

Thank you for choosing
Magnavox.

Need help fast?

Read your Quick Use Guide and/or Owner's Manual first for quick tips that make using your Magnavox product more enjoyable.

If you have read your instructions and still need assistance, you may access our online help at

www.magnavox.com

or call

1-800-705-2000

while with your product.



Magnavox vous remercie de
votre confiance.

Besoin d'une aide rapide?

Les Guide d'utilisation rapide et Manuel de l'utilisateur regorgent d'astuces destinées à simplifier l'utilisation de votre produit Magnavox.

Toutefois, si vous ne parvenez pas à résoudre votre problème, vous pouvez accéder à notre aide en ligne à l'adresse

www.magnavox.com

ou formez le

1-800-661-6162 (Francophone)

1-800-705-2000 (English speaking)

Veillez à avoir votre produit à portée de main.



Gracias por escoger
Magnavox

Necesita ayuda inmediata?

Lea primero la Guía de uso rápido o el Manual del usuario, en donde encontrar consejos que le ayudarán a disfrutar plenamente de su producto Magnavox.

Si después de leerlo aún necesita ayuda, consulte nuestro servicio de asistencia en línea en

www.magnavox.com

o llame al teléfono

1-800-705-2000

y tenga a mano el producto.

**20MC4204****13MDTD20**

Return your Product Registration Card today to get the very most from your purchase.

Registering your model with MAGNAVOX makes you eligible for all of the valuable benefits listed below, so don't miss out. Complete and return your Product Registration Card at once to ensure:

<p>*Proof of Purchase Returning the enclosed card guarantees that your date of purchase will be on file, so no additional paperwork will be required from you to obtain warranty service.</p>	<p>*Product Safety Notification By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.</p>	<p>*Additional Benefits of Product Ownership Registering your product guarantees that you'll receive all of the privileges to which you're entitled, including special money-saving offers.</p>
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MAGNAVOX

Congratulations on your purchase, and welcome to the "family!"

Dear MAGNAVOX product owner:

Thank you for your confidence in MAGNAVOX. You've selected one of the best-built, best-backed products available today. We'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.


Most importantly, you can count on our uncompromising commitment to your total satisfaction.


All of this is our way of saying welcome - and thanks for investing in a MAGNAVOX product.

P.S. To get the most from your MAGNAVOX purchase, be sure to complete and return your Product Registration Card at once.

Know these **safety** symbols

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

 This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

 The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, THIS APPARATUS SHOULD NOT BE EXPOSED TO RAIN OR MOISTURE, AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

For Customer Use
Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.
Model No. _____
Serial No. _____

Safety and General Information 3

Safety Precautions

- Do not stand the unit up vertically. Install the unit in a horizontal and stable position.
- Be sure to remove the disc and unplug the AC power cord from the outlet before carrying the unit.

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

Federal Communications Commission (FCC) Warning: Any unauthorized changes or modifications to this equipment void the user's authority to operate it.

Laser Safety: This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM. THE BEAM IS LOCATED INSIDE, NEAR THE DECK MECHANISM.

Special Information for Canadian Users: 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.

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

- 1) Reorient or relocate the receiving antenna.
- 2) Increase the separation between the equipment and the receiver.
- 3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4) Consult the dealer or an experienced radio/TV technician for help.

Copyright Protection: Unauthorized copying, broadcasting, public performance, and lending of discs are prohibited.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Note to the Cable TV System Installer: This reminder calls the Cable TV system installer's attention to Article 820-40 of the National Electrical Code, which provides guidelines for proper grounding in particular, specifying that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

Declaration of Conformity


Model Number: 20MC4204
13MDTD20
Trade Name: Magnavox
Responsible Party: Philips Consumer Electronics North America
P.O. Box 671539
Marietta, GA 30006-0026
1-800-705-2000

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4 Safety and General Information (cont'd)

IMPORTANT SAFETY INSTRUCTIONS

Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
 - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
 - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
 - a) **Warning:** To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
22. **Battery Usage CAUTION** - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
 - Install all batteries correctly, with + and - aligned as marked on the unit.
 - Do not mix batteries (old and new or carbon and alkaline, etc.).
 - Remove batteries when the unit is not used for a long time.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of Antenna Grounding as per NEC - National Electric Code

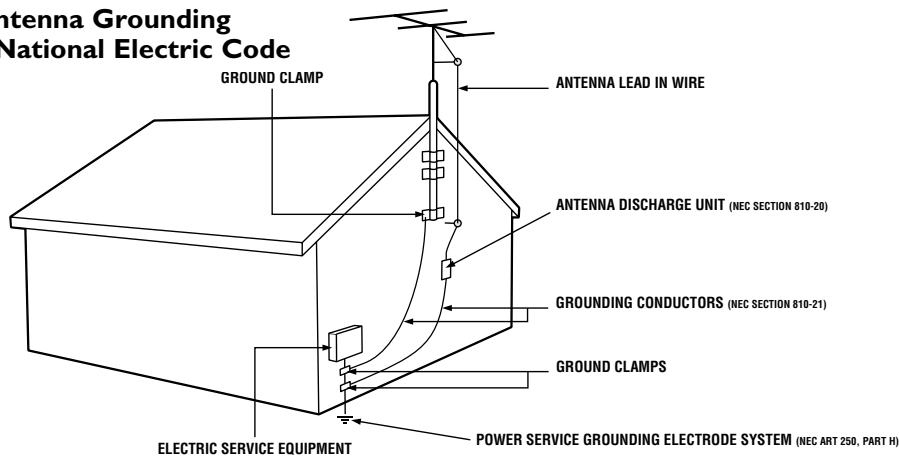


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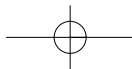
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6 Introduction

Welcome to your TV/DVD owner's manual.

This manual describes the 20MC4204 and 13MDTD20. These two models are different in size and design, but operate identically. The 20MC4204 is illustrated in this manual.

Features - TV

- Automatic Channel Setup
- Automatic Power Off
- Closed Captions
- Picture Controls
- Remote Control
- Setup menus in English, French or Spanish
- Sleep Timer
- V-Chip (Parental Control)

Features - Discs

- Audio Language choices *
 - Camera Angles *
 - Markers
 - MP3 Playback
 - Parental Control *
 - Paused/Fast/Slow/Step-by-Step Playback
 - Programmed Playback (Audio CD, MP3, JPEG)
 - Random Playback (Audio CD, MP3, JPEG)
 - Repeat (A-B, Chapter, Title, Track, Group, Disc)
 - Resume On
 - Specific Time/Title/Chapter/Track Playback
 - Subtitles *
 - Zoom
- * If available on the disc

Package Contents

- Remote Control
- Two AA batteries
- User Manual
- Quick-Use Guide
- Registration Card

DVD Disc Menus...

Some explanations in this manual describe DVD disc menus. DVD manufacturers set the menus, which vary among DVDs. Not all DVDs have menus. If the DVD has a menu, access it by pressing the DISC MENU button on the remote control.

Details are on page 28.

Setup Menus...

Some instructions explain how to use the setup menus of the TV/DVD. There are two setup menus: one for the TV features while the unit is in TV mode, and one for the disc features while the unit is in DVD mode. Access the setup menus by pressing SETUP on the remote control.

While in TV mode, you can select only the TV setup menu.


In DVD mode, you can select both the TV setup menu and the setup menu for the unit's DVD player. Press the SETUP button once to select the TV setup menu. Press SETUP twice to get to the DVD player's setup menu.

Even if you set a DVD feature in the unit's setup menu, it will not be available if the current disc does not include that feature.

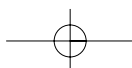
Available Disc Features...



All features described in this manual are not available on every disc. If the feature is not available on the disc, you cannot use the TV/DVD to make it available.

An  will appear in the top right corner of the TV screen if you try to access a feature that is not currently available.

For example, some features are available only during playback, while others are available only if playback is stopped. If you cannot access a feature, try stopping or starting playback, then try the feature again.



Playable Discs 7

Playable Discs

The DVD player of this TV/DVD will play many types of discs, including Digital Video Discs (DVDs) and Audio Compact Discs (CDs). It will play MP3 and JPEG files as well.

To play a DVD, make sure it meets the requirements for Region Codes and Color Systems as described below. Discs that have the following logos will play on the DVD player of this TV/DVD. Finalize CD-R, CD-RW, DVD+R and DVD+RW Discs before playing them in the TV/DVD.

- A disc may not play properly if the disc's recorded area is less than 55mm across.
- Do not glue paper or put stickers on to the disc. These may damage the disc, and the TV/DVD may not read it correctly.



DVD: Prerecorded Digital Video Discs



CD-R: Compact Disc Recordable. CD-Rs can be recorded on only once.



DVD+R: DVD Recordable. DVD+Rs can be recorded on only once.



Audio CDs



CD-RW: Compact Disc Rewritable. CD-RWs can be recorded on multiple times.



DVD+RW: DVD Rewritable. DVD+RWs can be recorded on multiple times.



MP3: Digital audio files recorded on a CD-R or CD-RW



Video CDs



DVD is a trademark of DVD Format/Logo Licensing Corporation.

Region Codes

This TV/DVD has a Region One (1) DVD player. DVDs must be labeled for ALL regions or for Region 1 in order to play on the unit. You cannot play DVDs that are labeled for other regions. Look for the symbols below on your DVDs. If these region symbols do not appear on your DVD, you cannot play the DVD in this TV/DVD.



The number inside the globe refers to a region of the world. Region 1 represents the United States, Canada, upper regions of North America, Bermuda, the U.S. Virgin Islands, and small regions near Australia. A DVD labelled for a specific region can only play on DVD players with the same region code.

Color Systems

DVDs are recorded in different color systems throughout the world. The most common color systems are NTSC (which is used primarily in the United States and North America), PAL, and SECAM.

The DVD player of this unit uses NTSC, so DVDs you play must be recorded in the NTSC system. You cannot play DVDs recorded in other formats. The color system of the DVD may be listed on the DVD or on the disc case.

Unacceptable Discs

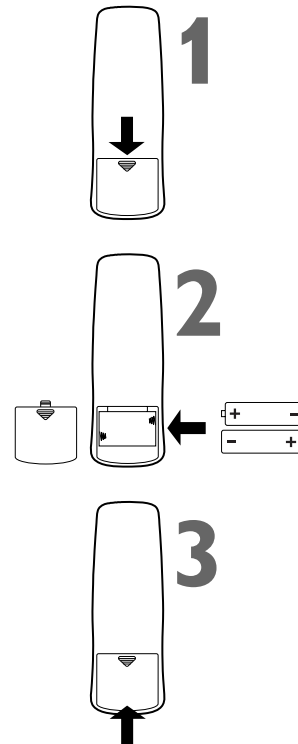
If you insert an unacceptable type of disc, a Disc Error message may appear on the TV screen. The following discs will not play on this DVD player.

- CD-ROM
- DVD-RAM
- DVD-ROM
- Unfinalized discs
- Super Audio CD (SACD) (The Audio CD layer of a hybrid SACD may play.)
- Compact Disc-Interactive (CD-I)
- Video Single Disc (VSD)
- DVD-Audio
- DVD contains MP3 or JPEG files
- DVD/CD contains Windows Media™ Audio

8 Remote Control Setup

Putting Batteries in the Remote Control

- 1** Remove the battery compartment lid on the bottom of the remote control by sliding the lid down and off, following the direction of the arrow on the lid.
- 2** Place two AA batteries inside the battery compartment with their + and – ends aligned as indicated.
- 3** Replace the battery compartment lid.



Recycling Guidelines/Battery Safety

- Your new product and its packaging contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount that needs to be properly disposed. Your product uses batteries that should not be thrown away when depleted but should be disposed of as small chemical waste. Please find out about the local regulations on disposal of your old product, batteries and packaging whenever you replace existing equipment.
- Battery Usage CAUTION - To prevent battery leakage that may result in bodily injury, property damage or damage to the unit.
 - Install ALL batteries correctly, with the + and – markings on the battery aligned as indicated on the unit.
 - Do not mix batteries, for example, old with new or carbon with alkaline.
 - Remove batteries when the unit will not be used for a long time.

Using the Remote Control

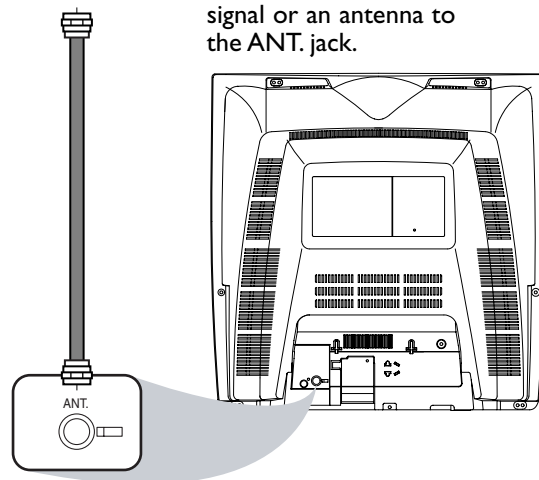
Point the remote control at the remote sensor on the front of the TV/DVD. *Details are on page 14.*

Do not put objects between the remote and the TV/DVD.

Hooking Up the TV/DVD 9

1 Hook up your TV/DVD using one of the connections shown.

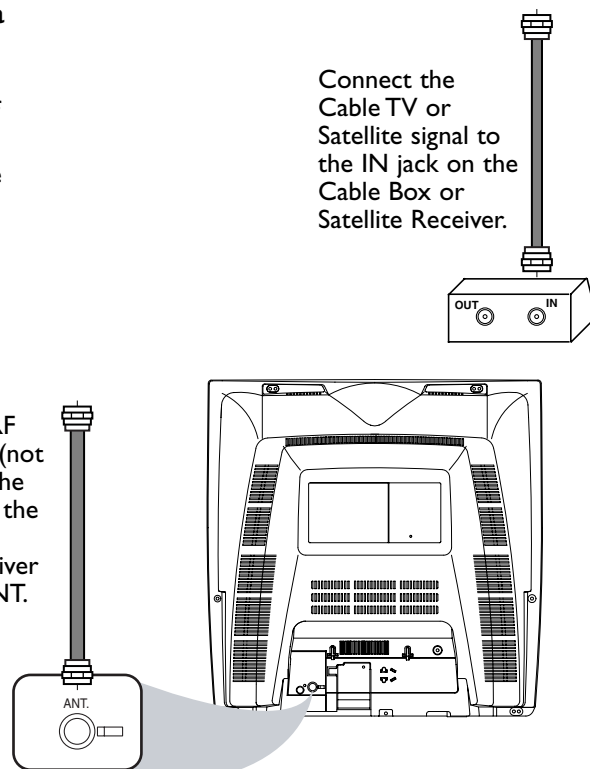
A Hooking Up Your TV/DVD with a Cable TV Signal or Outdoor Antenna



B Hooking Up Your TV/DVD with a Cable Box/Satellite Receiver

To view any channel, set the TV/DVD to the output channel (channel 03 or 04) of the Cable Box/Satellite Receiver. Then, select channels at the Cable Box/Satellite Receiver.

Connect the Cable TV or Satellite signal to the IN jack on the Cable Box or Satellite Receiver.



Your Cable Box/Satellite Receiver may have audio/video out jacks instead of the single antenna out jack (RF coaxial or 75 ohm) shown here. If so, connect audio/video cables to the audio/video out jacks of the Cable Box/Satellite Receiver and to the AUDIO/VIDEO IN jacks on the front of the TV/DVD. Press SELECT on the remote to set the TV/DVD to AUX, not channel 3 or 4. Select channels you want to watch at the Cable Box/Satellite Receiver as usual, leaving the TV/DVD on AUX.

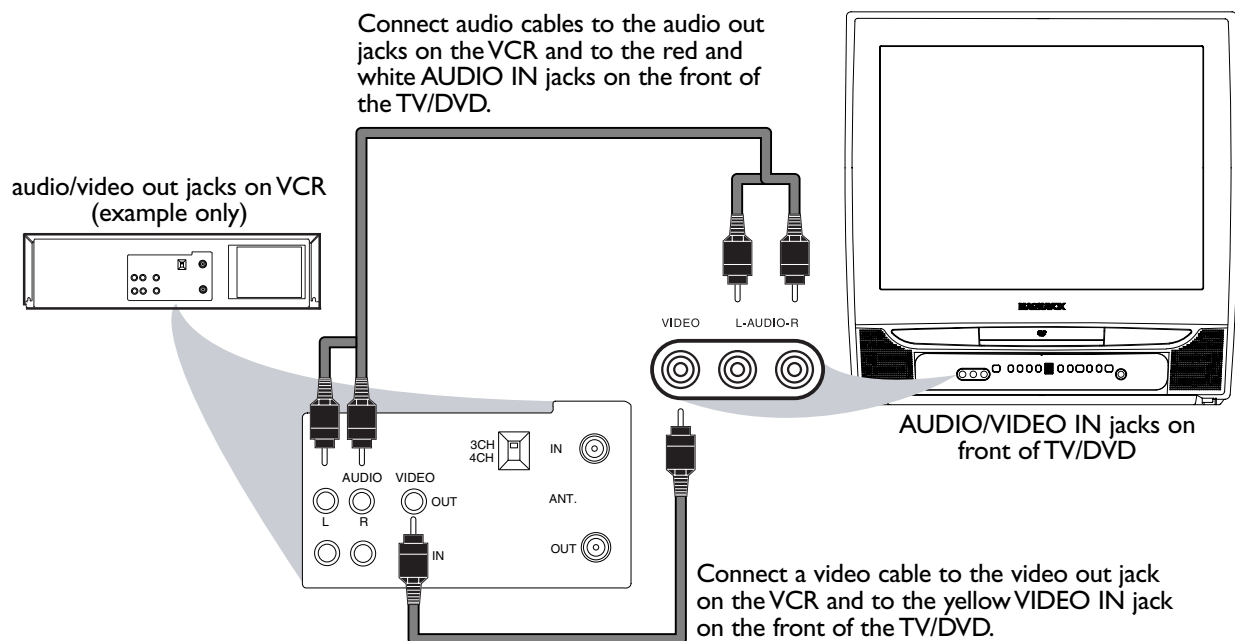
Instructions continue on the next page.

10 Hooking Up the TV/DVD (cont'd)

Instructions continued from the previous page.

C Hooking Up Your TV/DVD to Another Video Source (VCR, DVD player, Camcorder, etc.)

You may need this connection if you want to play discs or tapes on other equipment but watch them on the TV/DVD. Press SELECT on the remote to choose AUX at the TV/DVD when viewing materials playing on other equipment. Audio and video cables are not supplied.



2 When all other connections are complete, plug in the TV/DVD's power cord.

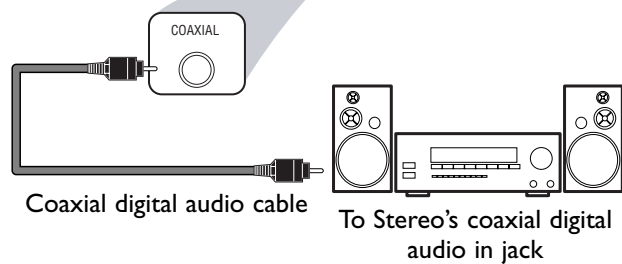
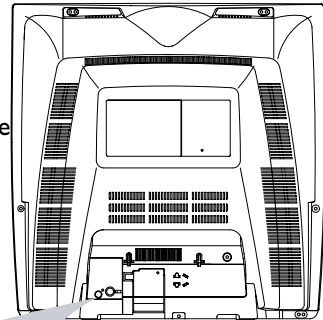
Optional Connections 11

Digital Stereo Hookups

You can connect the TV/DVD to a Stereo that has a coaxial digital audio in jack. Use this hookup if you want to hear the TV/DVD sound through the Stereo instead. Use these connections for a Dolby Digital-compatible Stereo or for a Receiver that has a Mini-Disc or Digital Audio Tape deck.

- 1** **Connect the antenna/Cable TV signal.** *Details are on pages 9.*
- 2** **Connect a coaxial digital audio cable (not supplied) to the COAXIAL DIGITAL AUDIO OUT jack on the TV/DVD.** **Also connect the cable to the Stereo's coaxial digital audio in jack.**
- 3** **If the Stereo is Dolby Digital-compatible, set Dolby Digital to BITSTREAM.** If the Stereo is not Dolby Digital-compatible or if you connected to a Mini-Disc or Digital Audio Tape Deck, set Dolby Digital to PCM. *Details are on page 48.*
An incorrect setting causes noise distortion and damages speakers. To see if your Stereo has Dolby Digital, look for a Dolby Digital logo on your Stereo. Or, refer to the Stereo owner's manual.

Coaxial digital audio cable to COAXIAL DIGITAL AUDIO OUT jack on TV/DVD



Helpful Hints

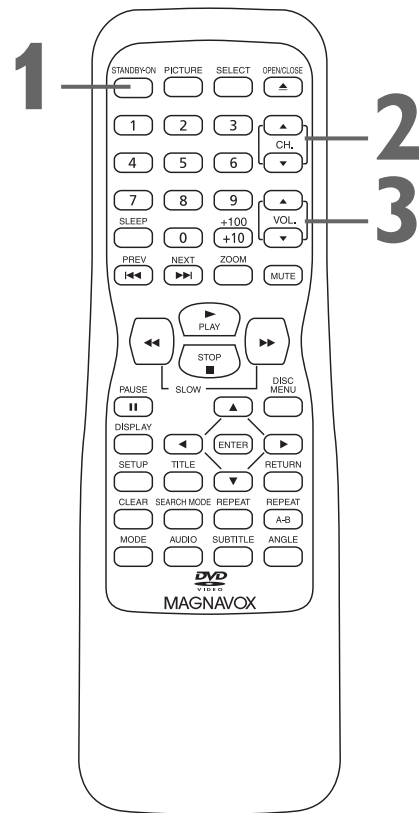
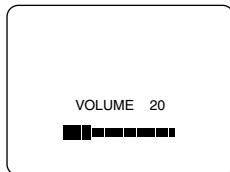
- You cannot use a Mini-Disc or Digital Audio Tape deck to copy Dolby Digital 5.1 channel surround sound discs.
- If the disc is not recorded in Dolby Digital 5.1 channel surround sound, you will not hear multi-channel sound even if you use the Digital Stereo hookup.
- To see if your disc is recorded in Dolby Digital, look for a Dolby Digital logo on disc or on its case.
- To see if your Stereo has Dolby Digital, look for a Dolby Digital logo on your Stereo. Or, refer to the Stereo owner's manual.

12 Watching TV

This unit selects available TV channels automatically when you connect an Antenna or Cable TV signal to it. To reset TV channels, see pages 18 and 19. If you are using a Cable Box or Satellite Receiver, you do not need to set channels at the TV/DVD.

- 1** Press **STANDBY-ON** to turn on the TV/DVD.
- 2** To watch TV, press **CH. ▲** or **▼** to select memorized channels. Memorized channels are those that appear automatically when you flip through channels. If a channel is skipped, you still can use the Number buttons to select it. This is a non-memorized channel; it may have weak reception in your area. To update your memorized and non-memorized channels, see page 19. Remember, if you are using a Cable Box/Satellite Receiver, set the TV/DVD to channel 3 or 4 or AUX. Change channels at the Cable Box/Satellite Receiver.

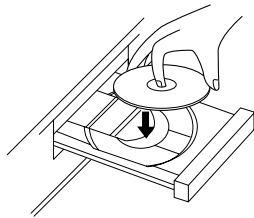
- 3** Press **VOL. ▲** or **▼** to adjust the volume.



Playing a Disc 13

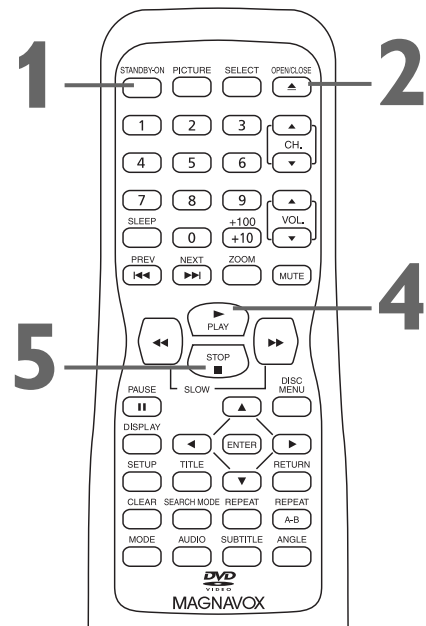
Before you begin, turn on the power of any equipment connected to the TV/DVD. Make sure other equipment is set to the correct channel. *Details are on page 10-11.*

- 1** Press **STANDBY-ON** to turn on the TV/DVD.
- 2** Press **OPEN/CLOSE ▲** to open the disc tray. The unit will switch to DVD mode automatically.
- 3** Place a disc on the tray. Some DVDs are recorded on both sides. Make sure the label of the side you want to play is facing up.
Or, if the DVD is recorded on only one side, place the disc on the tray with the label facing up and the shiny side facing down.



- 4** Press **PLAY ►** to close the tray. The tray will close and playback will begin. If playback does not start automatically, press **PLAY ►** again.
If a DVD menu appears instead, see *page 28*.
To play MP3 or JPEG files, see *page 42-43*.
You also can close the tray by pressing **OPEN/CLOSE ▲**.
- 5** Press **STOP ■** to stop playback.

REMINDER : Only certain discs will play.
See page 7 for details.



Helpful Hints

- Even if you turn off the unit in DVD mode, if you turn it on again with the **STANDBY-ON** button, it will be in TV/DVD mode. If the unit was shut down by unplugging the power cord or due to a power failure, it will be in DVD mode when you turn it on again.
- An "X" may appear on the screen when you try to access a feature that is not available. This is not a problem with the TV/DVD.
- If a disc is dirty or scratched, the picture may be distorted or playback may stop. Remove the disc and try a different one.
- Pressing **OPEN/CLOSE ▲** or **PLAY ►** when the power is off turns on the unit in DVD mode (instead of the usual TV mode).
- If a disc has multiple layers, the picture may freeze occasionally. This happens when the first layer switches to the second layer. This is not a malfunction.

14 Front Panel

Front design varies slightly among models.

Disc tray

Insert a disc here.
Details are on page 13.

PLAY ► Button

Press to start disc playback.
Details are on page 13.

STOP ■ Button

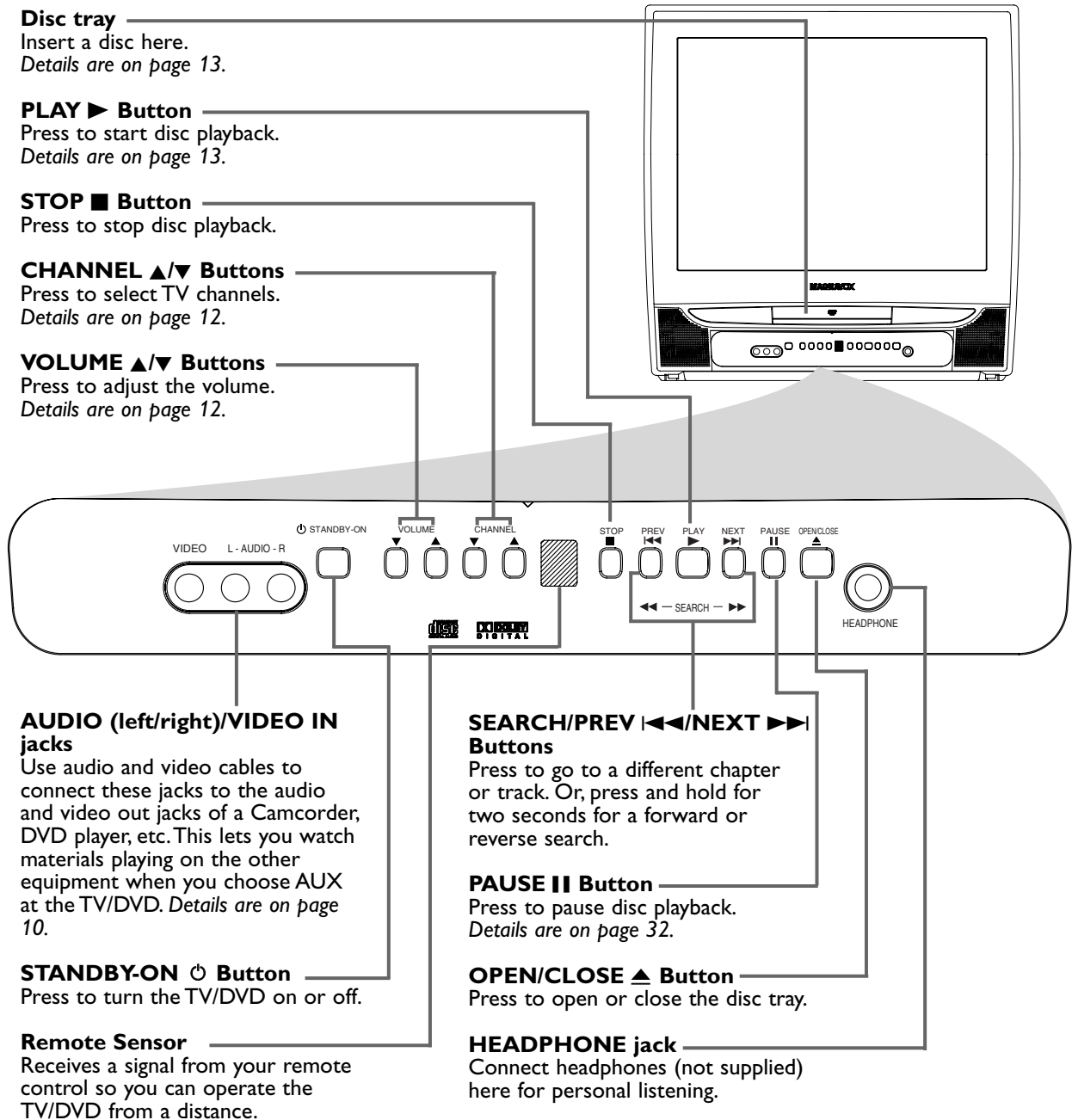
Press to stop disc playback.

CHANNEL ▲/▼ Buttons

Press to select TV channels.
Details are on page 12.

VOLUME ▲/▼ Buttons

Press to adjust the volume.
Details are on page 12.



AUDIO (left/right)/VIDEO IN jacks

Use audio and video cables to connect these jacks to the audio and video out jacks of a Camcorder, DVD player, etc. This lets you watch materials playing on the other equipment when you choose AUX at the TV/DVD. Details are on page 10.

STANDBY-ON ⏻ Button

Press to turn the TV/DVD on or off.

Remote Sensor

Receives a signal from your remote control so you can operate the TV/DVD from a distance.

SEARCH/PREV ◀◀/NEXT ▶▶ Buttons

Press to go to a different chapter or track. Or, press and hold for two seconds for a forward or reverse search.

PAUSE || Button

Press to pause disc playback.
Details are on page 32.

OPEN/CLOSE ▲ Button

Press to open or close the disc tray.

HEADPHONE jack

Connect headphones (not supplied) here for personal listening.

Remote Control Buttons 15

PICTURE Button

Press to access the picture controls. *Details are on page 20.*

STANDBY-ON Button

Press to turn on or off the TV/DVD.

Number Buttons

TV Mode: Press two digits to access a specific channel. Press 0 before the number of a single digit channel.

Details are on page 12.

+100/+10 button: To select channels 100 or higher, press +100/+10, then the Number buttons of the last two digits of the channel number.

DVD Mode: Use the Number buttons to enter a single-digit track or chapter number.

+100/+10 button: Press before entering double-digit numbers. For example, to select chapter 16, press +100/+10, then 1, 6.

SLEEP Button

Press to set the Sleep Timer. *Details are on page 21.*

PAUSE II Button

Press to pause disc playback. Press repeatedly to advance the DVD picture one frame at a time. *Details are on page 32.*

DISPLAY Button

Press to see the disc status. *Details are on pages 38-39.*

TITLE Button

Press to access a DVD's title menu if available. *Details are on page 28.*

SELECT Button

Press to choose TV, AUX or DVD mode. When you select DVD mode using this button, you must press PLAY ► or OPEN/CLOSE ▲ before you can access the DVD features or setup menus.

◀◀ and ▶▶ Buttons

Press ▶▶ to search forward during disc playback. Press ◀◀ to search backward during disc playback. *Details are on page 29.*

STOP ■ Button

Press to stop disc playback.

Arrow ▲▼◀▶ Buttons

Press to select menu items.

RETURN Button

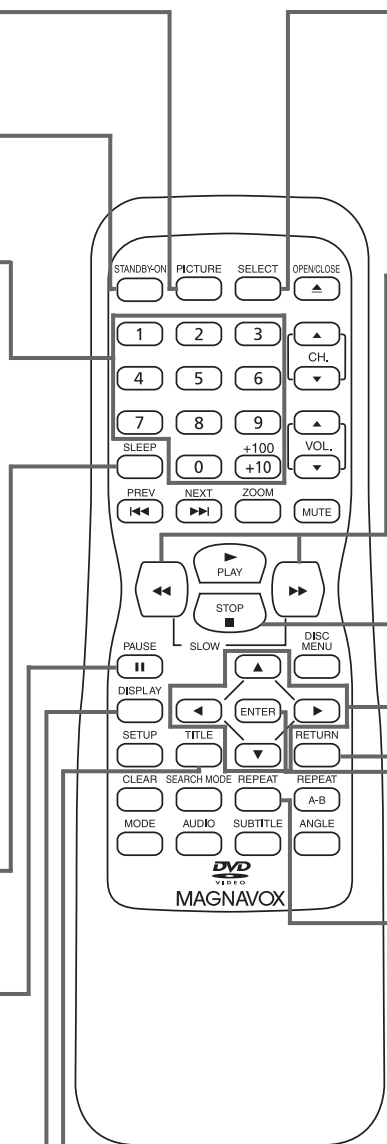
Press to go to the previous setup menu. Press to remove some menus or displays.

ENTER Button

Press to adjust or accept a menu setting.

REPEAT Button

Press to play a disc, title, chapter or track repeatedly. *Details are on page 33.*



16 Remote Control Buttons (cont'd)

OPEN/CLOSE ▲ Button

Press to open or close the disc tray.

ZOOM Button

Press to enlarge the picture during DVD playback. Details are on page 36.

PREV ◀◀ and NEXT ▶▶ Buttons

Press to go to other tracks or chapters. Details are on page 31.

SETUP Button

Press to access or remove the TV/DVD's setup menus.

CLEAR Button

Press to reset or erase wrong information.

MODE Button

Press to play a Program or to start Random Playback. Details are on page 41.
Press to set Black Level or Virtual Surround. Details are on page 40.

SEARCH MODE Button

Press to find a specific time, chapter, track or title on a disc. Details are on pages 30-31.
Press to set up Markers. Details are on page 34.

CH. (channel) ▲/▼ Buttons

Press to select memorized TV channels. Details are on pages 12, 18 and 19.

VOL. (volume) ▲/▼ Buttons

Press to adjust the volume. Pressing a VOL. ▲/▼ while the sound is muted will restore the volume.

MUTE Button

Press to mute or restore the sound.

PLAY ▶ Button

Press to play a disc. Details are on page 13.

DISC MENU Button

Press to access DVD disc menus. Details are on page 28.

REPEAT A-B Button

Press to play a section of a disc repeatedly. Details are on page 33.

ANGLE Button

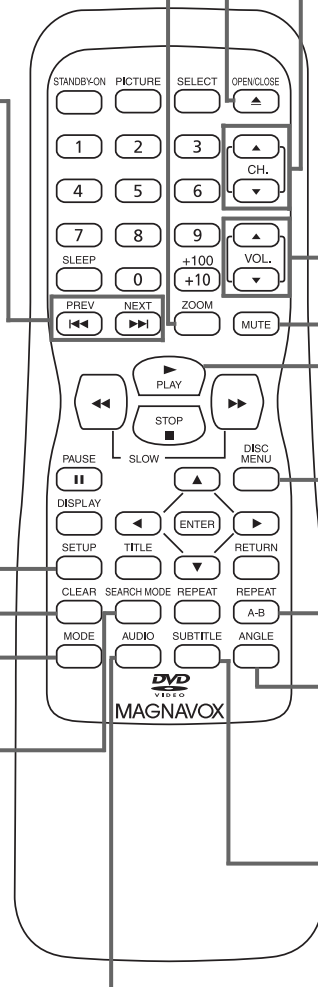
Press to change the camera angle and watch a sequence from a different perspective. Details are on page 35.

SUBTITLE Button

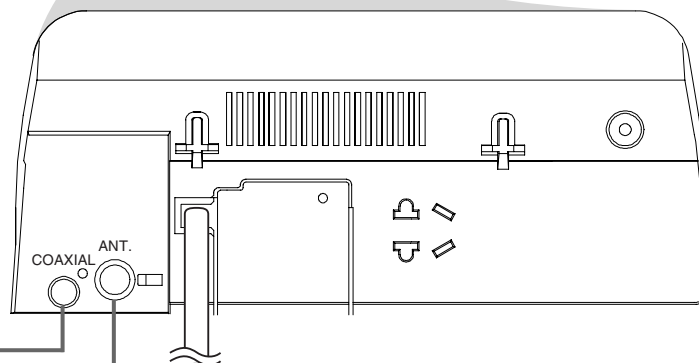
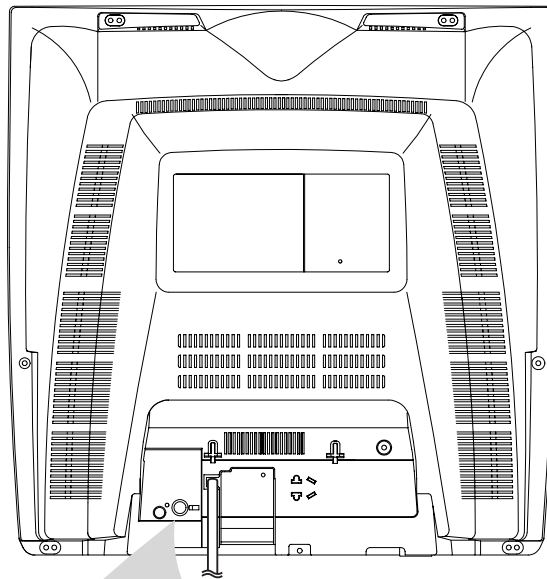
Press to select a subtitle language. Details are on page 35.

AUDIO Button

Press to select an audio language or sound mode. Details are on page 37.



Rear Panel 17



COAXIAL DIGITAL AUDIO OUT jack

Connect this jack to a Digital Stereo using a coaxial digital audio cable (not supplied). Use this connection if the Stereo has Dolby Digital compatibility and has a coaxial digital audio in jack. You may also use this connection when connecting the TV/DVD to a Mini-Disc or Digital Audio Tape deck. Details are on page 11.

ANT. jack (Antenna In)

Connect an antenna or Cable TV signal here. This brings TV channels to the TV/DVD. If you do not connect an antenna or Cable TV signal to the TV/DVD (or connect to a Cable Box/Satellite Receiver through this jack), you will not receive any TV channels. Details are on pages 9.

Power Cord

Connect to a standard AC outlet (120V/60Hz).

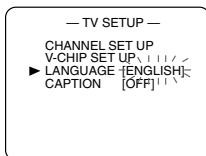
18 Menu Language, Auto Channel Programming

Menu Language

This affects the language of the TV/DVD's setup menus and on-screen display terms. This does not alter the language of TV programming or discs.

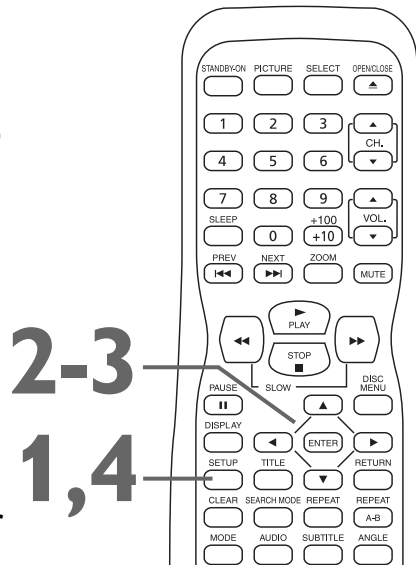
- Before you begin, press **SELECT** to put the TV/DVD in TV mode.

- 1 Press **SETUP**.
- 2 Press **▲** or **▼** to select **LANGUAGE**.



- 3 Press **ENTER** to select **ENGLISH, ESPAÑOL** or **FRANÇAIS**. The selected language will flash inside the []. This will be the language of the TV/DVD setup menus.

- 4 Press **SETUP** to exit the menu.

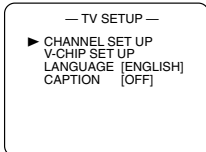


Auto Channel Programming

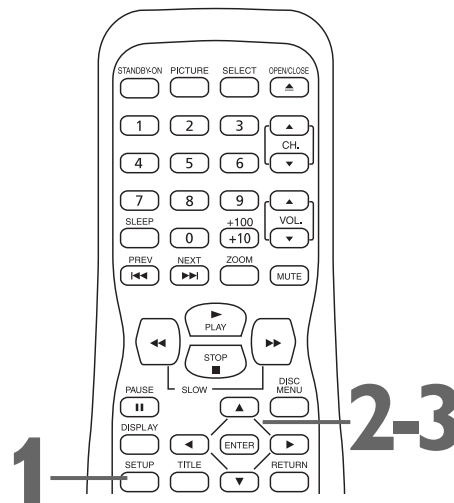
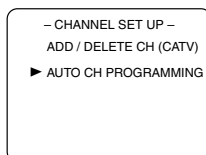
To auto program only the channels which are available in your area, follow the steps below.

- Before you begin, press **SELECT** to put the TV/DVD in TV mode.

- 1 Press **SETUP**.
- 2 Press **▲** or **▼** to select **CHANNEL SET UP**. Then, press **ENTER**.



- 3 Press **▲** or **▼** to select **AUTO CH PROGRAMMING**. Press **ENTER**. The TV/DVD memorizes available channels. When scanning is complete, the TV/DVD will go to the lowest available channel automatically. To stop channel scanning before it is finished, press **SETUP** on the remote.



Helpful Hints

- If you select Spanish or French but need English menus, press **SETUP**. Press **▲** or **▼** to select **IDIOMA** or **LANGAGE**. Press **ENTER** to select **ENGLISH**. Then, press **SETUP**.
- The TV/DVD cannot change channels at the Cable Box or Satellite Receiver. Set the TV/DVD to channel 3, 4 or **AUX**. Change channels at the Cable Box/Satellite Receiver. Details are on page 9.
- Channel settings will be saved even if the power fails.
- You cannot set up TV channels if the unit is in DVD mode.

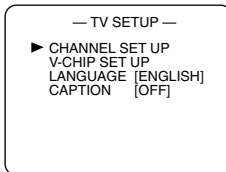
Adding/Deleting Channels 19

You can delete TV channels you no longer receive or seldom watch. Or, you can add more channels if the TV/DVD did not memorize all your favorite channels.

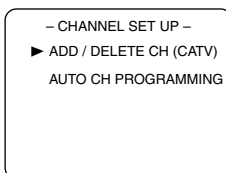
- Before you begin, press **SELECT** to put the TV/DVD in TV mode.

1 Press **SETUP**.

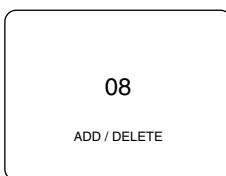
2 Press **▲** or **▼** to select **CHANNEL SET UP**. Then, press **ENTER**.



3 Press **▲** or **▼** to select **ADD/DELETE CH.** (TV) or (CATV) will appear beside ADD/DELETE CH. This indicates whether you connected an Antenna (TV) or a Cable TV signal (CATV) to the TV/DVD. Then, press **ENTER**. The menu will disappear and a TV channel will appear. The channel number will appear, along with ADD/DELETE.

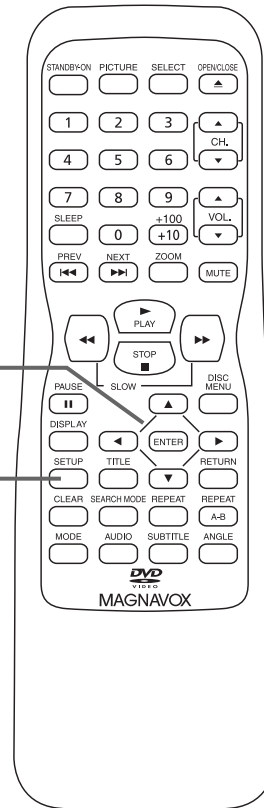


4 Press **▲** or **▼** until the channel you wish to add or delete appears. You also can use the Number buttons or CH. **▲** or **▼** to choose a channel.



5 Press **ENTER** to add or delete the channel. To add a channel, press **ENTER** so ADD and the channel number appear in light blue (teal). To delete a channel, press **ENTER** so DELETE and the channel number appear in light red (purple). To delete another channel, repeat steps 4-5.

6 Press **SETUP** when you are finished.



Helpful Hints

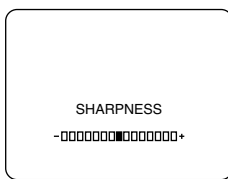
- To confirm that a channel has been added or deleted, press CH. **▲** or **▼** to see if you can or cannot select the channel. Only memorized/added channels can be selected with CH. **▲** or **▼**. Use the Number buttons to select deleted channels.
- If you connected an Antenna to the TV/DVD, channels 2-69 will be available to add or delete. If you connected to Cable TV, channels 1-125 will be available.
- If you select a channel that is blocked by V-Chip, the PROTECTED PROGRAM ... message will appear and the add/delete display will disappear. Details on V-Chip are on pages 23-27. Unblock the V-Chip ratings first, then try adding/deleting channels again.

20 Picture Control

The TV/DVD's picture controls – BRIGHT, SHARPNESS, TINT, COLOR and CONTRAST – are preset to factory specifications. Although the factory settings are usually the best, you may need to make some adjustments for a natural looking image.

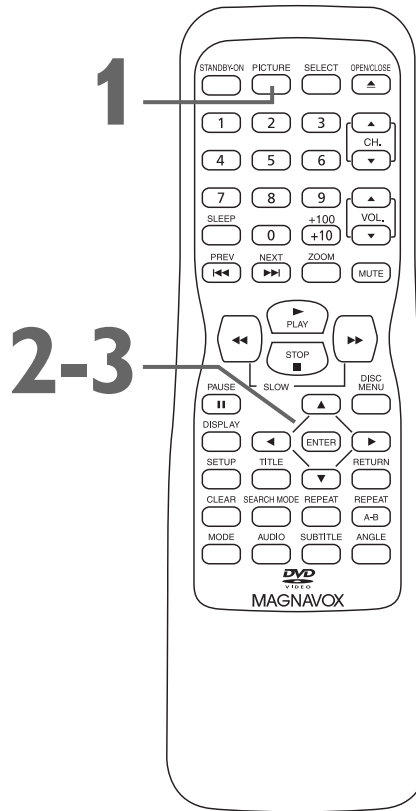
1 Press **PICTURE** so the first Picture Control appears.

2 Within 5 seconds, press **▲** or **▼** to select **BRIGHT, CONTRAST, COLOR, TINT** or **SHARPNESS**.



3 Within five seconds, press **▶** or **◀** to adjust the item.

	◀	▶
BRIGHT	to decrease brightness	to increase brightness
CONTRAST	to decrease contrast	to increase contrast
COLOR	to decrease color	to brighten color
TINT	to add purple	add green
SHARPNESS	to make soft	to make clear



Helpful Hints

- Degaussing: Magnetism from nearby appliances and speakers might affect the color of the TV picture. If this happens, move the TV/DVD away from the appliance. If the color is still not correct, disconnect the TV/DVD's power cord from the AC outlet, then reconnect it after 30 minutes.
- The TV/DVD keeps the picture settings after a power failure.

Sleep Timer 21

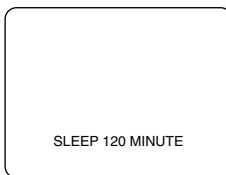
Use the Sleep Timer to program the TV/DVD to shut off in a certain amount of time.

- Before you begin, press **SELECT** to put the TV/DVD in TV mode.

1 Press **SLEEP** repeatedly until your desired amount of time appears on the screen with **SLEEP**.

Each press of **SLEEP** will increase the time by 30 minutes. You may set a Sleep Timer of 30, 60, 90 or 120 minutes.

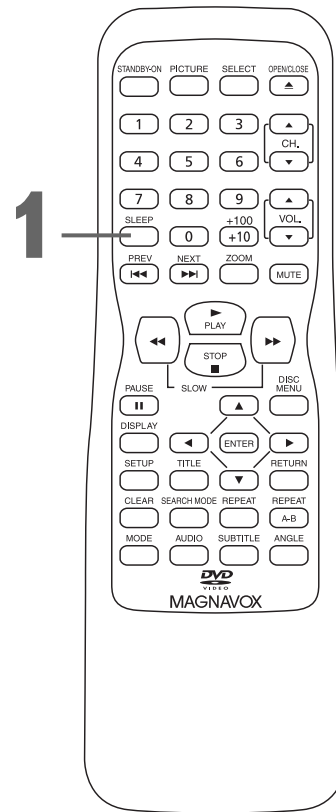
After 10 seconds, the Sleep Timer information will disappear from the screen.



The TV/DVD will turn itself off after the selected amount of time has passed.

To Cancel the Sleep Timer

Press **SLEEP** repeatedly until "SLEEP 0 MINUTE" appears.



Helpful Hints

- To see how much time remains before the TV/DVD turns itself off, press **SLEEP** once. The information will disappear in 10 seconds.
- A power failure will cancel the Sleep Timer.

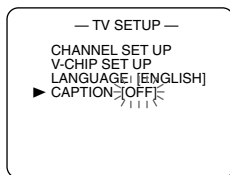
22 Closed Captions

Follow the steps below to select Closed Captions for TV programming. Not all TV programs and commercials have Closed Captions or all types of Closed Captions (second language, half-screen text, etc.). If Closed Captioning is not broadcast, you cannot receive it. This does not indicate a problem with the TV/DVD. Check your TV program listings for shows with Closed Captions.

If the TV/DVD receives poor quality television signals, the captions may contain errors, or there might be no captions at all. Some possible causes of poor quality signals are:

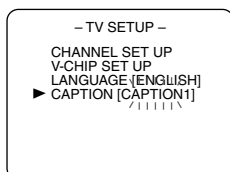
- Automobile ignition noise
 - Electric motor noise
 - Weak signal reception
 - Multiplex signal reception (ghosts or screen flutter)
- **Before you begin, press SELECT to put the TV/DVD in TV mode.**

- 1 Press SETUP.
Press ▲ or ▼ to select CAPTION.**

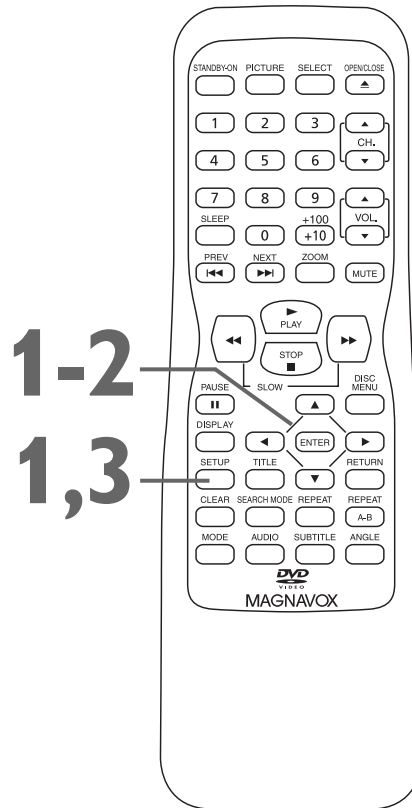


- 2 Press ENTER repeatedly to select CAPTION1, CAPTION2, TEXT1, TEXT2 or OFF.**

- CAPTION1:** Displays standard Closed Captions (what a character is saying).
- CAPTION2:** Displays foreign language closed captions (foreign language words showing what a character is saying).
- TEXT1 and TEXT2:** Display half-screen text (such as a channel guide, schedule or announcement).
OFF turns off Closed Captions. Captions will not appear on the screen.



- 3 Press SETUP to exit the menu.**



Helpful Hints

- If a black box appears on the screen, a text mode is selected. Select CAPTION1, CAPTION2 or OFF.
- The TV/DVD retains the Closed Caption setting if the power fails.
- Abbreviations, symbols and other grammatical shortcuts may be used in order to keep pace with the on-screen action. This is not a problem with the TV/DVD.
- Changing channels may delay Closed Captions for a few seconds.
- Adjusting or muting the volume may delay Closed Captions for a few seconds.
- If Closed Captions are active, the on-screen display will disappear after five seconds. This is also true when MUTE is pressed.

Setting V-Chip 23

TV Rating Settings

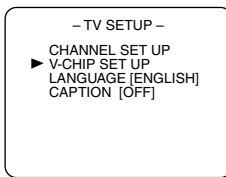
V-Chip enables parents to prevent their children from watching inappropriate material on TV. V-Chip reads the ratings for TV programming (except for news and sports programs, unedited movies on premium cable channels, and Emergency Broadcast System signals), then denies access to programming if the program's rating meets the limitations you select. In this case, a "PROTECTED PROGRAM by ..." message appears on the TV screen. You must select a different TV channel or play a disc instead.

V-Chip affects only TV channels. It does not block DVD playback. To block DVD viewing, change the PARENTAL feature. *Details are on pages 49-52.*

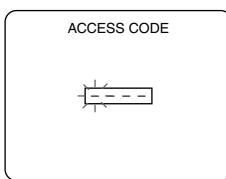
TV programming may be rated by the Motion Picture Association of America (MPAA) or according to the Television Parental Guidelines. In order to block any inappropriate programming, set your limits in both places (MPAA RATING and TV RATING).

- Before you begin, press **SELECT** to put the TV/DVD in TV mode.

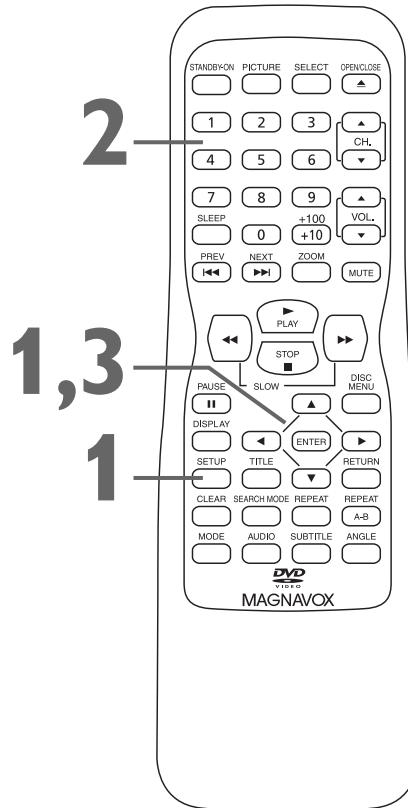
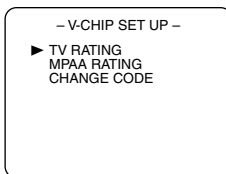
- 1 Press **SETUP**. Press **▲** or **▼** to select **V-CHIP SET UP**. Then, press **ENTER**.



- 2 Press the **Number** buttons to enter the **four-digit access code**. When entering the access code for the first time or if there has been a power failure, enter default code 0000.



- 3 Press **▲** or **▼** to select **TV RATING**. Then, press **ENTER**.



TV Rating Explanations

- TV-Y - Appropriate for all children
- TV-Y7 - Appropriate for children seven and older
- TV-G - General Audience
- TV-PG - Parental Guidance suggested.
- TV-14 - Unsuitable for children under 14
- TV-MA - Mature audience only

Helpful Hint

- You cannot use the default access code (0000) after you set a different access code. However, a power failure will reset the access code to 0000. Details are on page 27.

Instructions continue on the next page.

24 Setting V-Chip (cont'd)

Instructions continued from the previous page.

4 Press ▲ or ▼ to select the TV Rating level at which you want to block viewing, then press ENTER once.

When you select the rating category and set it to BLOCK, the higher ratings will turn to BLOCK automatically. Lower ratings will turn to VIEW. When you turn "TV-Y" to VIEW (or BLOCK), all ratings will turn to VIEW (or BLOCK) automatically.

TV-Y	[VIEW]
TV-Y7 ()	[VIEW]
TV-G	[VIEW]
▶ TV-PG (DLSV)	[BLOCK]
TV-14 (DLSV)	[BLOCK]
TV-MA (LSV)	[BLOCK]

5 Press ENTER again to access a rating's subratings.

TV-Y7	[BLOCK]
▶ FV	[BLOCK]

Example:
TV-Y7 subratings

● When you select TV-Y7:

Press ▲ or ▼ to select FV (Fantasy Violence, violence that seems realistic to young children). Then, press ENTER to select BLOCK or VIEW.

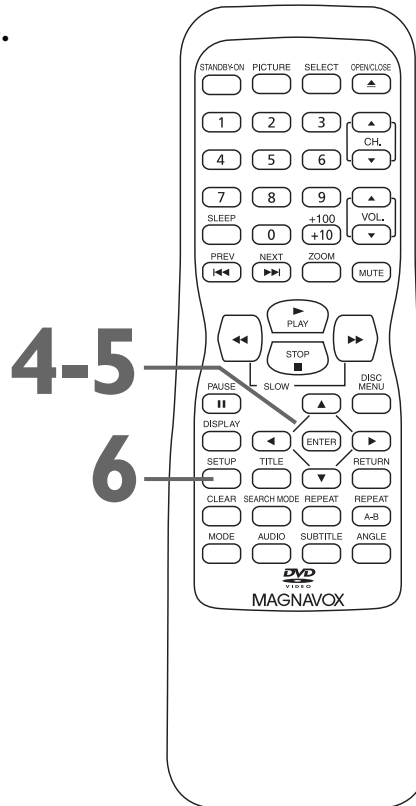
● When you select TV-PG, TV-14 or TV-MA:

Press ▲ or ▼ to select "D" (Suggestive Dialog), "L" (Coarse Language), "S" (Sexual Situation) or "V" (Violence). Then, press ENTER to select BLOCK or VIEW.

● To go back to the previous menu:

Press RETURN.

6 Press SETUP to save your settings.



Helpful Hints

- When you select TV-MA, "D" for dialog is not an available subrating.
- Blocked subratings will appear beside the rating category in the TV ratings menu.
- To access the V-CHIP SET UP menu, the TV/DVD must be on a TV channel that is not protected. If "PROTECTED PROGRAM ..." appears on the screen, change to a channel that is not protected (blocked).
- You cannot block a subrating (D, L, S or V) if the main category is set to VIEW. However, you can set a subrating to VIEW even when the main category is set to BLOCK.
- Changing the category to BLOCK or VIEW automatically changes all its subratings to the same (BLOCK or VIEW).

Setting V-Chip (cont'd) 25

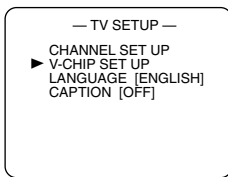
MPAA Rating Settings

You can block TV channel viewing according to the Motion Picture Association of America ratings. To do so, follow these steps.

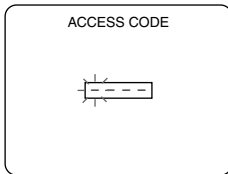
- Before you begin, press **SELECT** to put the **TV/DVD** in **TV** mode.

1 Press **SETUP**.

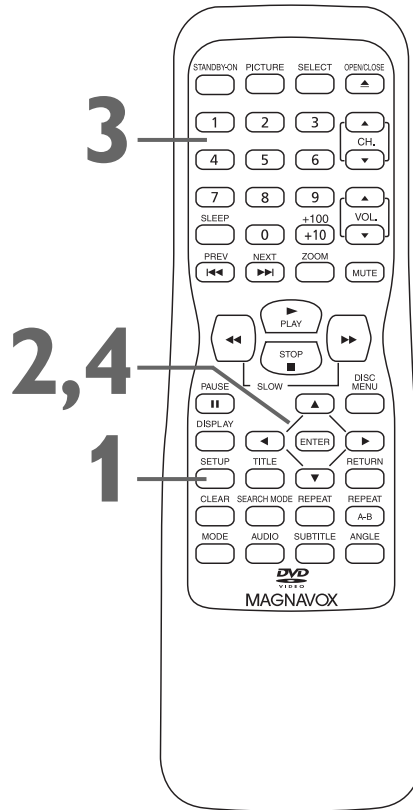
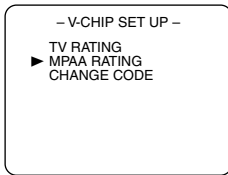
2 Press **▲** or **▼** to select **V-CHIP SET UP**. Then, press **ENTER**.



3 Press the **Number** buttons to enter the **four-digit access code**. (The default code is 0000 if you have not set up your own code yet.)



4 Press **▲** or **▼** to select **MPAA RATING**. Then, press **ENTER**.



MPAA Rating Explanations

- G - General Audience
- PG - Parental Guidance suggested.
- PG-13 - Unsuitable for children under 13
- R - Restricted; under 17 requires accompanying parent or adult guardian
- NC-17 - No one under 17 admitted
- X - Mature audience only

Instructions continue on the next page.

26 Setting V-Chip (cont'd)

Instructions continued from the previous page.

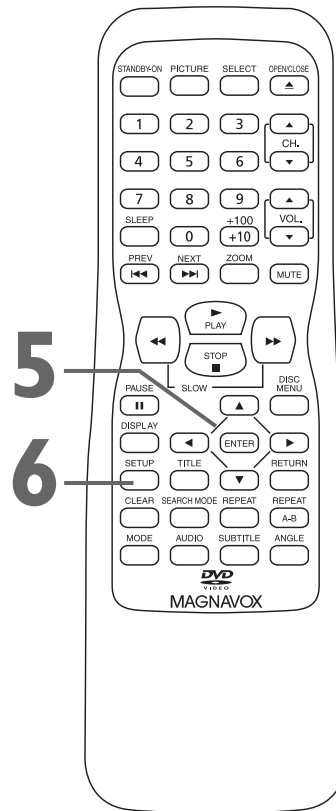
5 Press ▲ or ▼ to select the level at which you want to block viewing. Then, press ENTER to select **BLOCK** or **VIEW**.

When you block a category, higher ratings turn to **BLOCK** automatically. Lower ratings turn to **VIEW** automatically.

When you set G to **VIEW** or **BLOCK**, all ratings turn to **VIEW** or **BLOCK** automatically.

G	[VIEW]
PG	[VIEW]
PG-13	[VIEW]
▶ R	[BLOCK]
NC-17	[BLOCK]
X	[BLOCK]

6 Press **SETUP** to save your settings.



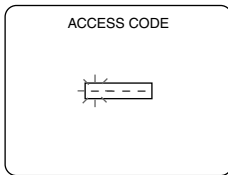
Setting V-Chip (cont'd) 27

Changing the Access Code

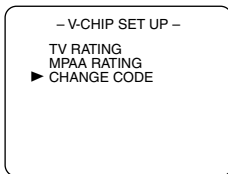
Although the default code 0000 is supplied with the TV/DVD, you can set your own access code.

- Before you begin, press **SELECT** to put the TV/DVD in TV mode.

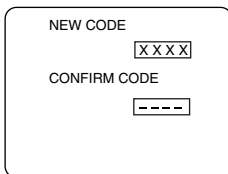
- 1 Press SETUP.**
- 2 Press ▲ or ▼ to select V-CHIP SET UP. Then, press ENTER.**
- 3 Press the Number buttons to enter the old access code. When doing this for the first time, use 0000.**



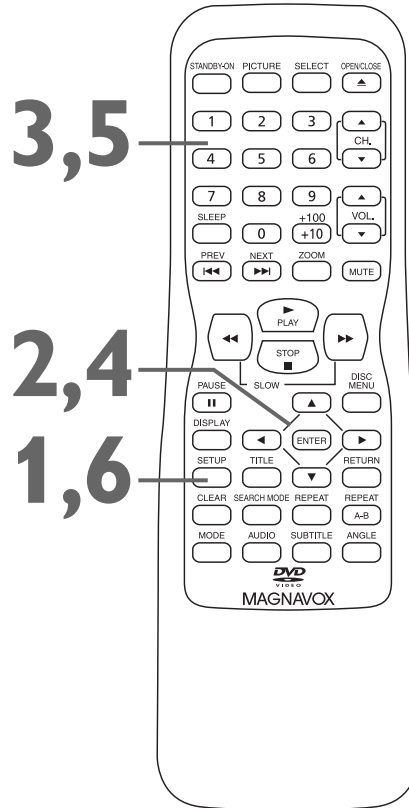
- 4 Press ▲ or ▼ to select CHANGE CODE. Then, press ENTER.**



- 5 Press the Number buttons to enter your desired access code in the NEW CODE space. Then, enter the same code in the CONFIRM CODE space. (Four Xs will appear on the screen instead of your code. This protects the code's identity. Your code must have exactly four digits.) The V-CHIP SET UP screen will reappear.**



- 6 Press SETUP to save your settings.**



Helpful Hints

- If you enter the wrong code in the CONFIRM CODE space, repeat step 5. Enter the same new code exactly in the CONFIRM CODE space.
- If the power fails, the default code will be active again (0000). Change your access code again as necessary.

28 DVD Disc Menus, Title Menus

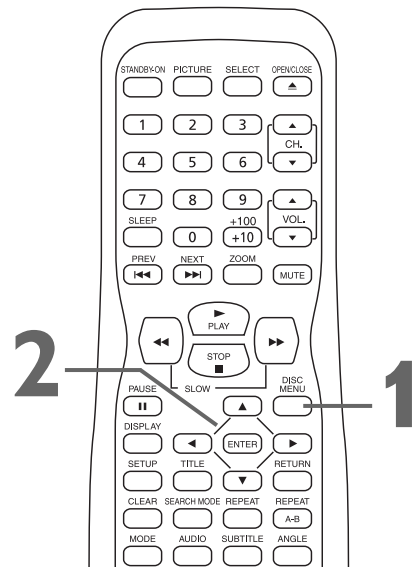
- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

DVD Disc Menus

Some DVDs contain menus that describe the contents of the disc or allow you to customize disc playback. For example, the menu may offer choices for subtitle languages, special features or scene selection.

To use the DVD disc menu and select features, follow these steps.

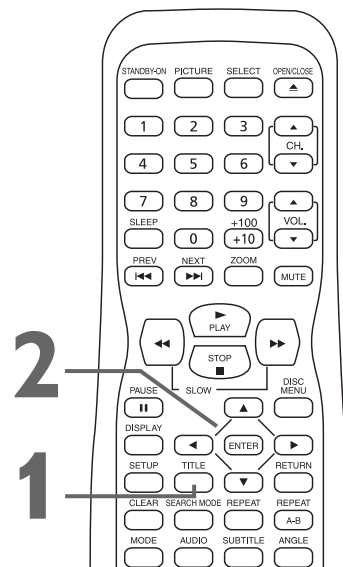
- 1 Press DISC MENU.** The DVD's disc menu will appear. If the feature is not available, ✕ may appear on the TV screen.
- 2 Press ▲, ▼, ◀ or ▶ to select an item, then press ENTER.** Continue this process to set up all the features you want or to start disc playback.



Title Menus

Some DVDs have a title menu, which lists the titles available on the DVD. Use the title menu to play a specific title.

- 1 Press TITLE.** The title menu will appear. If the feature is not available, ✕ may appear on the TV screen. Or if the DVD only has a main menu as described above, it may appear when you press TITLE.
- 2 Press ▲, ▼, ◀ or ▶ to select a title, then press ENTER.** Playback will begin at the title you selected.



Helpful Hints

- Menus vary among discs. Follow the information with the DVD.
- Not all DVDs have disc or title menus.
- Some DVDs may refer to chapters as "scenes." Some DVDs may refer to the title menu as the "scene index."
- The TITLE button may not be active with all DVDs.

Fast Forward/Reverse Search 29

- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

1 During playback, press ►► or ◀◀ on the remote control.

- During DVD playback, pressing ►► or ◀◀ will forward or reverse the picture at approximately 2, 8, 20, 50 or 100 times the normal speed. The speed may vary depending on the disc. ►► 1, ►► 2, ►► 3, ►► 4 or ►► 5 will appear briefly on the TV screen to indicate forward searching. Or, ◀◀ 1, ◀◀ 2, ◀◀ 3, ◀◀ 4 or ◀◀ 5 will indicate reverse searching.

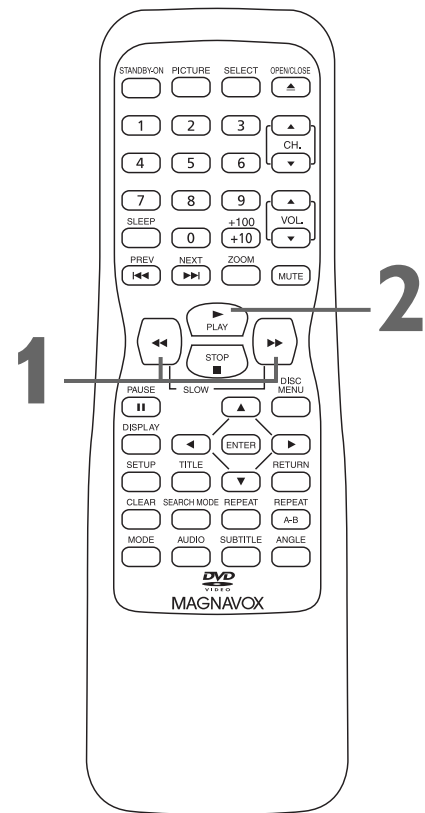
For DVD playback, the sound will be mute during the search.

- For Video CDs, Audio CDs or MP3 playback, pressing ►► or ◀◀ will forward or reverse the picture or sound at approximately 2, 8 or 30 times the normal speed. The speed may vary depending on the disc. ►► 1, ►► 2 or ►► 3 will appear briefly on the TV screen to indicate forward searching. Or, ◀◀ 1, ◀◀ 2 or ◀◀ 3 will indicate reverse searching. For MP3 or Audio CD playback, the sound will be intermittent during the search.



Example: Playing a DVD in reverse at twice the normal playing speed.

2 Press **PLAY** ► to return to normal playback.



Helpful Hint

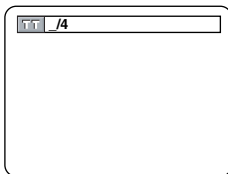
- If you use ►► or ◀◀ during Dual Playback, JPEG playback will be paused.

30 Title/Chapter Playback, Specific Time Playback

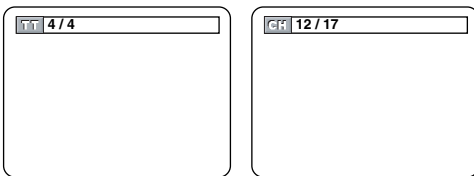
- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

Title/Chapter Playback

- 1 During DVD playback, press **SEARCH MODE** until CH (for chapter) or TT (for title) appears on the TV. The number of available titles or chapters will appear at the right (/4, for example).

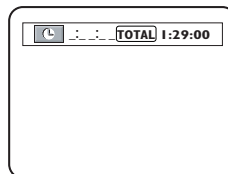


- 2 Enter a title or chapter number using the **Number** buttons. The title or chapter will play.



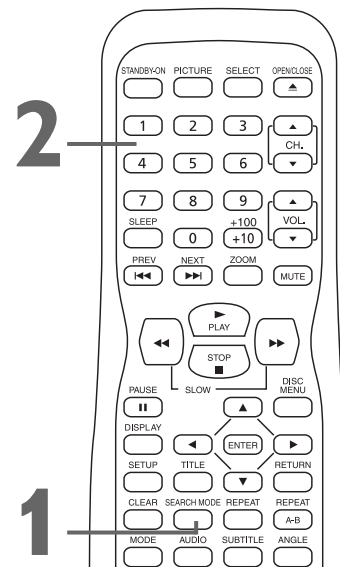
Specific Time Playback

- 1 During DVD, Audio CD or Video CD (without PBC) playback, press **SEARCH MODE** until the time search display appears.

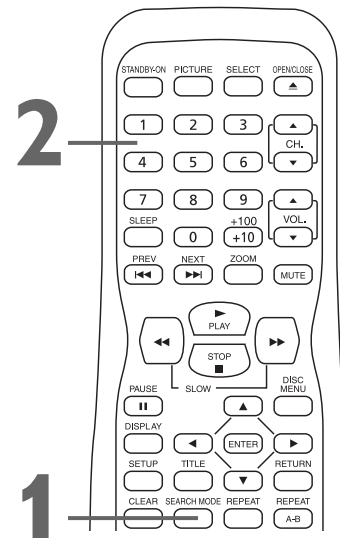


- 2 Within 30 seconds, use the **Number** buttons to enter the elapsed playing time (of the current track or title) at which you want play to begin. Enter the time in hours, minutes and seconds. Within a few seconds, playback will start at the specified time.

- Example: 1 hour, 23 minutes and 30 seconds
1 → 2 → 3 → 3 → 0
- Make sure the time you enter is within the total time of the current title or track. If it is not, the time space will clear and playback will continue at its current point. The total time available in the current track or title will appear in the time search display.
- If you make a mistake entering the time, press **CLEAR** to clear the time area. Enter the correct information.



1



1

Helpful Hints

- When playback is stopped, use the **Number** buttons to select a title for immediate playback. During playback, use the **Number** buttons to choose a chapter for immediate playback.
- Title/Chapter Playback is not available with some DVDs.

Track Playback 31

There are three ways to play a specific Audio CD, Video CD (without PBC), MP3 or JPEG file: Use the Number buttons, SEARCH MODE or PREV ◀◀ and NEXT ▶▶.

- **Before you begin, press SELECT to put the TV/DVD in DVD mode. Then, press PLAY ▶ or OPEN/CLOSE ▲ to activate DVD mode.**

A

Using the Number Buttons

Press the Number buttons to enter a track number. Playback will start at the selected track.

For tracks 10 and above, press the +100/+10 button so the search display (TR __ /12 - an example of total tracks) appears on the TV. Press the Number button of the first digit, then press the Number button of the second digit. For example, to play track 26, press +100/+10, then Number 2, then Number 6. For single-digit tracks (1-9), press a single Number button. If you enter a track number that is not available on the disc, playback will not begin (or the current track will continue to play).

B

Using SEARCH MODE

Press SEARCH MODE so the track search display (TR __ /13, for example) appears. The total number of available tracks appears at the right (/13, for example).

Within 30 seconds, press the Number buttons to select an available track number. Playback will begin at the selected track. For a single-digit track (1-9), enter a zero first. For example, to play track 5, press 0, 5. You do not have to use the +100/+10 button in search mode for tracks 10 or above.

C

Using PREV ◀◀ and NEXT ▶▶

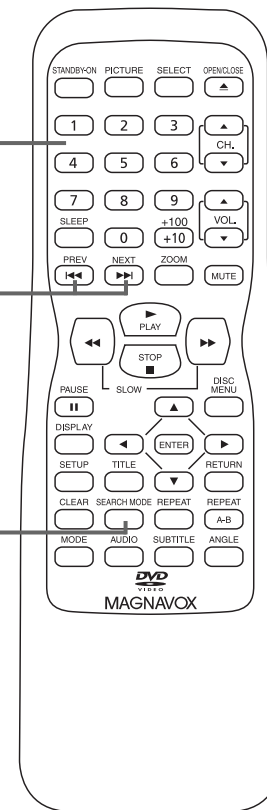
During playback, press NEXT ▶▶ to skip the current track and move to the next track.

During playback, press PREV ◀◀ to return to the beginning of the current track or press repeatedly to go to previous tracks.

A-B

C

B



Helpful Hints

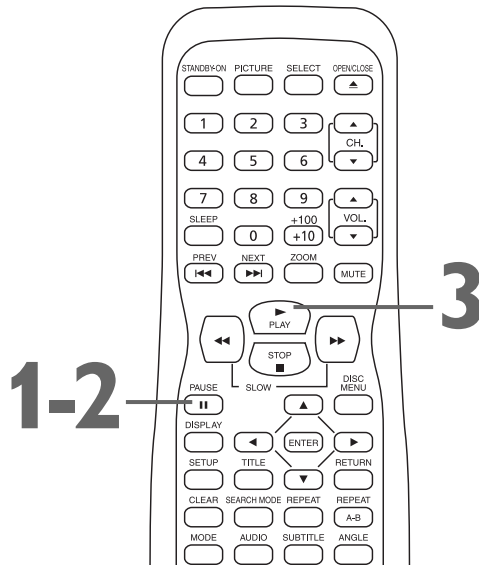
- PREV ◀◀ and NEXT ▶▶ does not function when playback is stopped.
- You cannot use NEXT ▶▶ to go from the last track on the disc to the first track.
- Using PREV ◀◀ or NEXT ▶▶ will only affect MP3 files during Dual Playback.

32 Paused and Step-by-Step Playback, Resume On

- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

Paused and Step-by-Step Playback

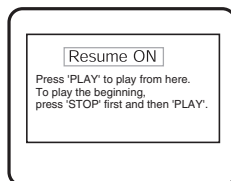
- 1** During playback, press **PAUSE** ||. Playback will pause and the sound will be mute.
 - Pressing **PAUSE** || once during Dual Playback will pause a JPEG file only. Pressing **PAUSE** || one more time will pause an MP3 playback.
- 2** Press **PAUSE** || repeatedly to see a DVD or Video CD picture advance one frame (or step) at a time. The sound will remain mute. Pressing **PAUSE** || repeatedly during Audio CD, MP3 or JPEG playback will have no effect.
- 3** Press **PLAY** ► to resume playback.



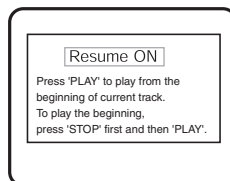
Resume On

- 1** Press **STOP** ■ during playback. In a few seconds, the following Resume message will appear on the TV screen.

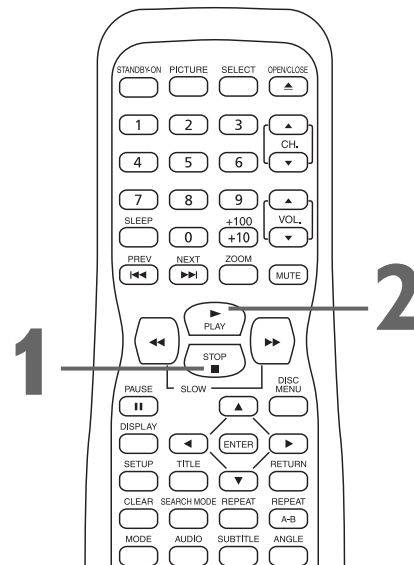
For DVD, AudioCD or VideoCD:



For MP3 or JPEG:



- 2** Press **PLAY** ►. In a few seconds, playback will resume from the point at which it stopped last. You can resume playing at the same point even if you turn off the unit, then turn it on again later. However, opening the disc tray will cancel the Resume feature. Playback will start at the beginning the next time you insert the disc. For MP3 and JPEG files, playback will resume from the beginning of the current track. To cancel Resume and start playing the disc from the beginning, press **STOP** ■ a second time while playback is stopped. The Stop symbol (■) will appear briefly on the TV screen. Press **PLAY** ► to start playing the disc from the beginning. The resume information will be saved even when the power is turned off.



Helpful Hints

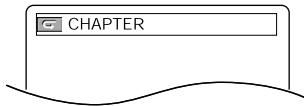
- Set Still Mode to FIELD in the DISPLAY menu if paused images are blurry. Details are on pages 46-47.
- Resume On is not available for Video CDs with PBC.

Repeat, A-B Repeat 33

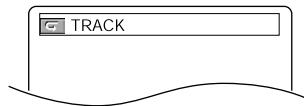
- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

Repeat

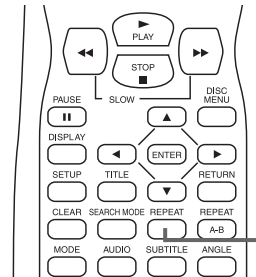
- 1 During playback, press REPEAT until the repeat mode you want appears on the TV.**
On a DVD, select **CHAPTER**, **TITLE** or **OFF**.
On an Audio CD or Video CD (without PBC), select **TRACK**, **ALL** (all tracks on the disc) or **OFF**. With MP3 or JPEG files, select **TRACK**, **GROUP** (all tracks in the current folder), **ALL** or **OFF**.
Selecting a new track, chapter or title will cancel Repeat Playback.



Example: Repeat a DVD chapter



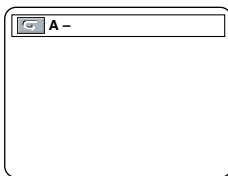
Example: Repeat an Audio CD or Video CD track



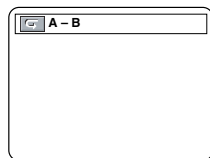
A-B Repeat

Follow these steps to play a section of a DVD, Audio CD or Video CD repeatedly.

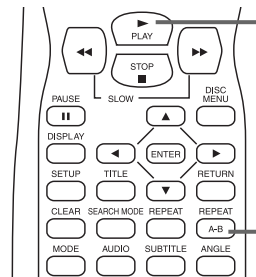
- 1 Press PLAY ► to play the disc to the point at which you want repeated playback to begin.**
- 2 Press REPEAT A-B to set the starting point (A).**
If you make a mistake, press **CLEAR**. This will erase point A and let you start over. **OFF** will appear briefly on the TV screen.



- 3 Play the disc to the point at which you want repeated playback to end, then press REPEAT A-B again.** Within a few seconds, the section will begin to play. The segment will play over and over until you cancel the A-B Repeat feature or stop play.



- 4 To cancel A-B Repeat Playback, press REPEAT A-B so OFF appears on the TV screen.** Regular disc playback will resume.



Helpful Hints

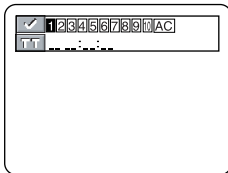
- Repeat and A-B Repeat are not available with some discs.
- A-B Repeat is not available with MP3 playback.
- The entire A-B Repeat section must be within a single title or track. If you do not enter Point B before the end of the track or title is reached, the end of the track or title will become Point B automatically.
- Stopping playback will cancel A-B Repeat.
- If you choose Group Repeat during Dual Playback, all tracks or files in each folder will play repeatedly. For example if you choose Group Repeat during Dual Playback of MP3 folder A and JPEG folder B, all MP3 files in folder A and all JPEG files in folder B will be repeated.

34 Markers

Use Markers to remember your favorite places on a DVD, an Audio CD or a Video CD (without PBC). To set the Markers, follow these steps.

- **Before you begin, press SELECT to put the TV/DVD in DVD mode. Then, press PLAY ► or OPEN/CLOSE ▲ to activate DVD mode.**

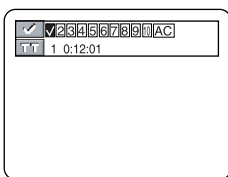
- 1** Play the disc to within 30 seconds prior to the point at which you want to set the Marker. **During playback, press SEARCH MODE repeatedly until the Markers appear at the top of the TV screen.**



Example: DVD

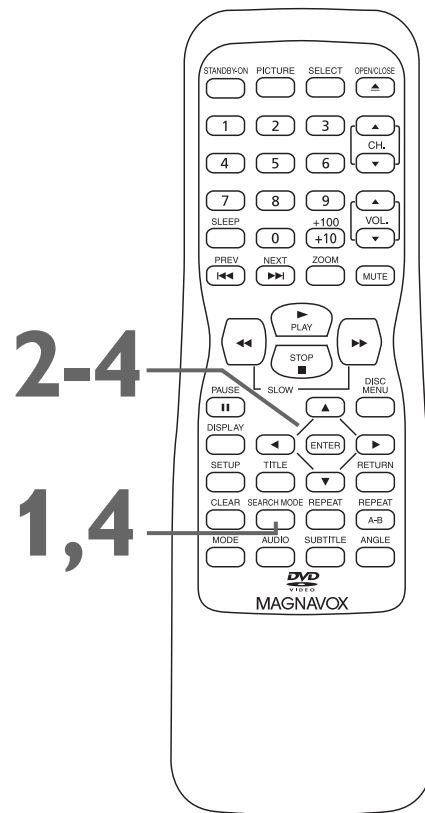
- 2** Within 30 seconds, press ◀ or ▶ to select a Marker (1-10). Make sure _ _ : _ _ : _ _ appears beneath the number.

- 3** Let the disc play to the point at which you want to set the Marker (up to 30 seconds away). **When the disc reaches the point you want to remember, press ENTER.** The title or track number and its elapsed playing time will appear beneath the Markers. A checkmark will replace the Marker number. The Marker display will disappear in about 30 seconds, or press SEARCH MODE again to remove the Marker display.



Example: DVD

- 4** To return to a Marker during playback, press SEARCH MODE until you see the Markers. Press ◀ or ▶ to choose the Marker you want, then press ENTER. Disc playback will continue from the marked point.



Helpful Hints

- Opening the disc tray or turning off the TV/DVD will erase all the Markers.
- To erase a single Marker, press SEARCH MODE until you see the Markers. Press ◀ or ▶ to select a Marker (a checkmark). Press CLEAR. Press SEARCH MODE to remove the display.
- To erase all the Markers, press SEARCH MODE until you see the Markers. Press ▶ to select AC (All Clear), then press ENTER. Press SEARCH MODE or RETURN to remove the display.

Subtitles, Camera Angles 35

- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** or **OPEN/CLOSE** to activate DVD mode.

Subtitles

Select a language for DVD subtitles during playback. You may select only the subtitles that are available on the DVD.

- 1 During playback, press **SUBTITLE** repeatedly to select a subtitle language. The number of available languages appears at the right of the subtitle display. In the example below, six languages are available (/ 6). After a few seconds, the subtitles will appear. Press **SUBTITLE** to turn off subtitles. When no subtitles are available, "NOT AVAILABLE" appears at the right of the subtitle display.

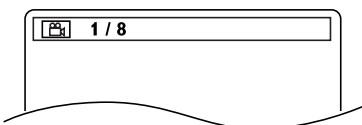


Example: English as first of 6 available subtitles

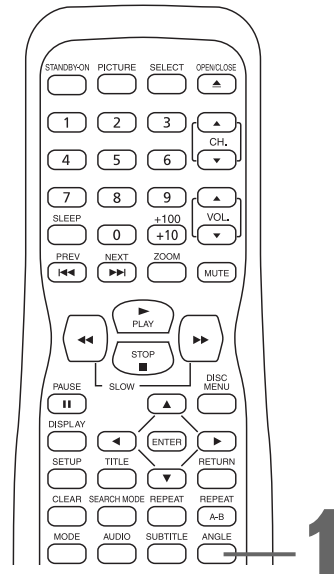
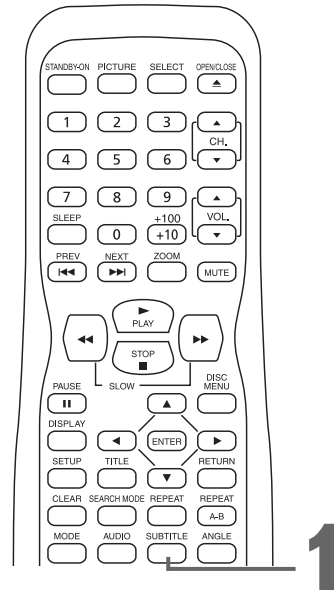
Camera Angles

Some DVDs contain scenes recorded from different angles. The camera angle will not change if the DVD does not contain sequences recorded from different perspectives.


- 1 During DVD playback, press **ANGLE** repeatedly to select a different angle. The number of available angles appears at the right of the angle display. In this example, eight angles are available (/ 8).



Example: Angle 1 of 8 available angles



Helpful Hints

- With some DVDs, you must select a subtitle language in the disc menu.
- If the desired language does not appear after pressing **SUBTITLE** several times, the disc does not have subtitles in that language.
- Opening the disc tray will cancel your subtitle setting.
- If the Angle Icon setting is on,  will appear on the TV screen when the current portion of the disc has multiple camera angles. To set the Angle Icon on or off, see pages 53-54.

36 Slow Motion, Zoom

- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

Slow Motion

- 1 Press **PAUSE** II during DVD or Video CD playback.
- 2 Press ►► or ◀◀. Slow motion playback will begin. Press ►► or ◀◀ repeatedly to play the DVD forward or backward at approximately 1/16, 1/8 or 1/2 the normal speed. Reverse slow motion is not available on a Video CD. An ► 1 (1/16), ► 2 (1/8) or ► 3 (1/2) will appear briefly on the TV screen to indicate slow forward playback. An ◀ 1 (1/16), ◀ 2 (1/8) or ◀ 3 (1/2) will indicate slow reverse playback.



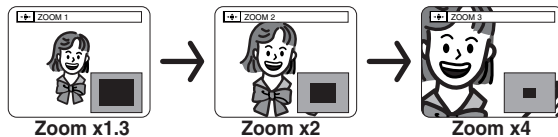
Example: Playing a DVD forward at half the normal speed.

- 3 Press **PLAY** ► to return to normal playback.

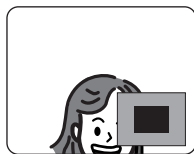
Zoom

Zooming lets you enlarge the playback image of a DVDs, Video CDs or JPEG CDs, and lets you pan through the enlarged image.

- 1 Press **ZOOM** during playback. The picture will be 1.3 times larger than normal. Press **ZOOM** again to increase the picture to twice the regular size. Press **ZOOM** again to increase the picture to 4 times the regular size.

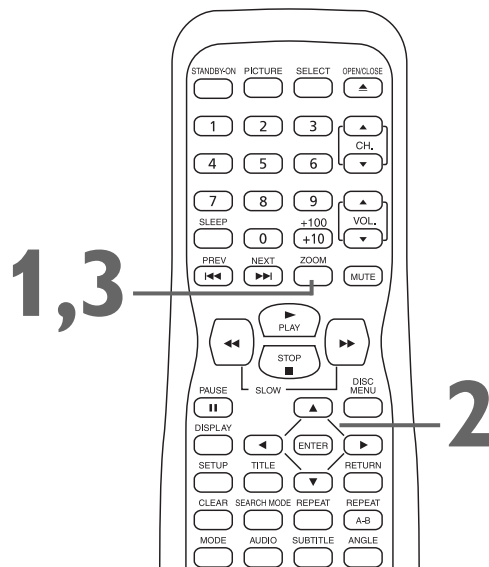
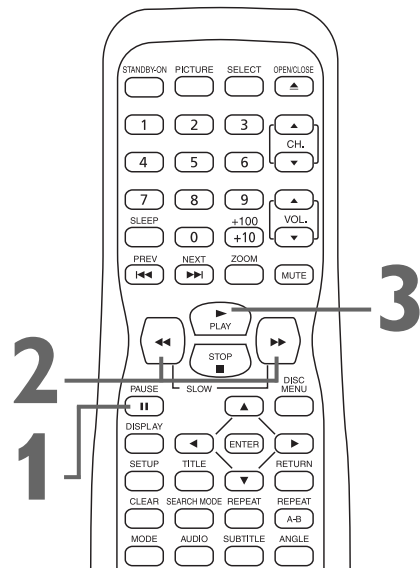


- 2 Press ▲, ▼, ◀ or ► to move the zoomed image up, down, left or right.



The gray box with an inner blue box that shows during Zoomed playback is the position guide. To remove it or show it, press **ENTER**. The position of the blue box inside the gray box indicates the position of the zoomed image within the overall picture.

- 3 To return the picture to its normal size, press **ZOOM** repeatedly.



Helpful Hints

- The sound will be mute during slow motion playback.
- The x4 zooming is not available with some discs. Only x1.3 and x2 zooming is available for Video CDs. Only x2 zooming is available for JPEGs.
- Position guide is not available for JPEG playback.

Audio Language, Stereo Sound 37

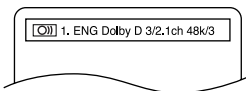
- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** or **OPEN/CLOSE** to activate DVD mode.

Audio Language

You can select a language for DVDs during playback if multiple languages are available.

- 1** During DVD playback, press **AUDIO** repeatedly to choose one of the available languages. Audio display appears at the top of the TV screen, and the new audio will be heard. The display will disappear after about five seconds.

The audio display may show the current settings for the Dolby Digital or multi-channel (5.1CH) sound, if they are available on the disc, and the sampling rate of the disc. The number of available languages appears after the “ / ” at the right of the display (/3, for example).

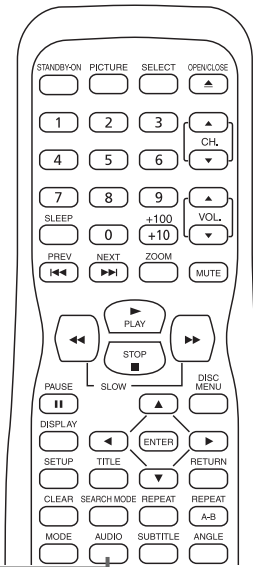
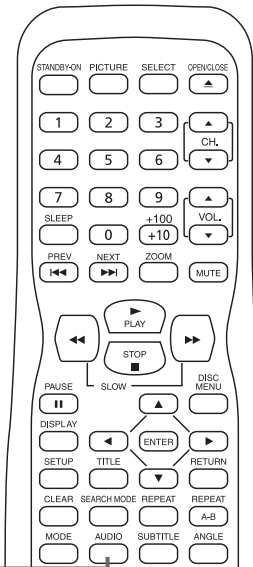
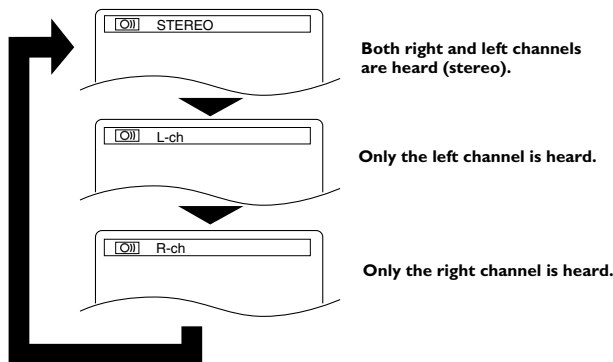


Example: English audio

Stereo Sound

Adjust Stereo Sound to determine whether you will hear the left channel, the right channel or both channels (stereo) during Audio CD or Video CD playback.

- 1** Press **AUDIO** repeatedly during Audio CD or Video CD playback to choose **STEREO**, **L-ch** or **R-ch**. The display will disappear in about five seconds.



Helpful Hints

- If a language is not available after pressing **AUDIO** several times, the DVD does not have that language.
- Some DVDs only let you change the language in the disc menu.
- Audio languages may be abbreviated (such as ENG for English). Or, three dashes (- - -) may appear instead of an abbreviation.

38 On-Screen Displays

- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

DVD Display

- 1 Press **DISPLAY** repeatedly to see the following displays during DVD playback.

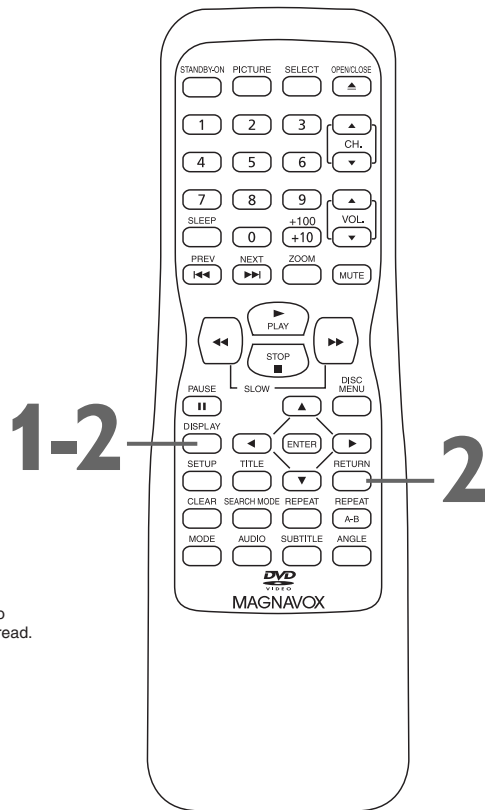
CH (chapter): Current chapter number / Total chapters

Elapsed playing time of the current chapter; remaining playing time of the current chapter

TT (title): Current title number / Total titles

Elapsed playing time of the current title; remaining playing time of the current title

- BIT RATE: The amount of audio and video data currently being read.
- Layer number, appears only when playing a two-layered disc. L0: Layer 0 is playing L1: Layer 1 is playing
- Current repeat setting, if active
 G C : Chapter repeat
 G T : Title repeat
 A G B : A-B repeat



- 2 Press **DISPLAY** repeatedly or press **RETURN** to remove the display.

Audio CD and Video CD Display

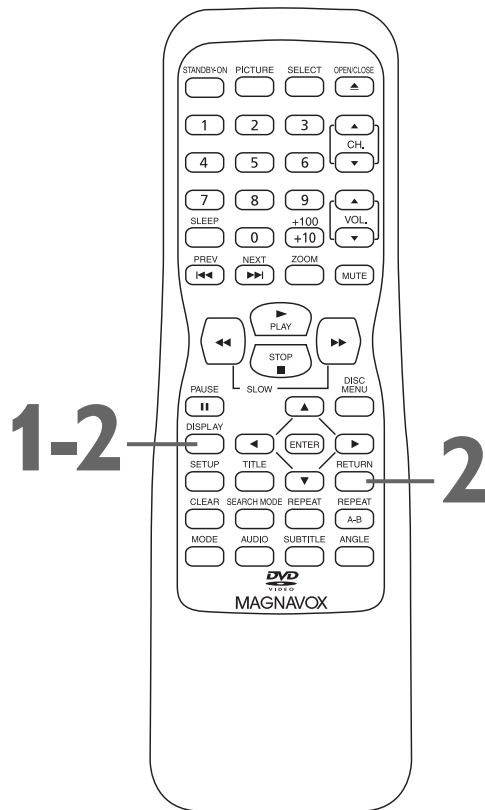
- 1 Press **DISPLAY** repeatedly to see the following displays during Audio CD and Video CD (without PBC) playback.

TR (track): Current track number / total tracks

Elapsed playing time of the current track; remaining playing time of the current track

ALL: Current track number / total tracks

- Current Repeat setting, if active
 G T : Track repeat
 G A : All tracks repeat
 A G B : A-B repeat
- Elapsed playing time of the current disc; remaining playing time of the current disc



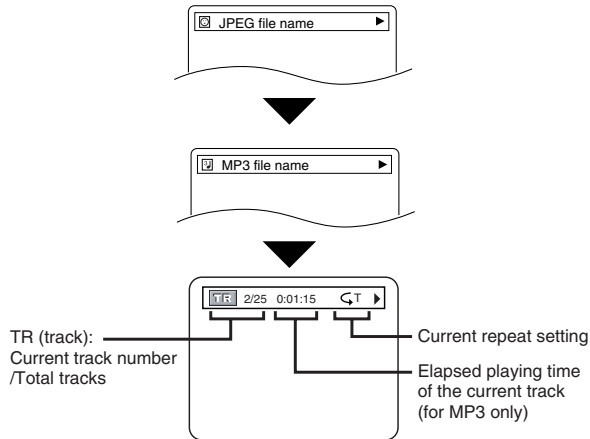
- 2 Press **DISPLAY** repeatedly or press **RETURN** to remove the display.

On-Screen Displays (cont'd) 39

- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

MP3/JPEG Displays

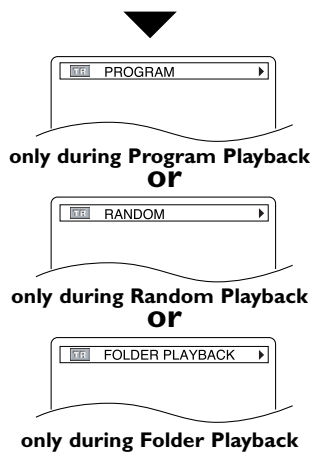
- 1 Press **DISPLAY** until the current track or file information appears.



Example: MP3 playback

The following may appear to indicate Repeat Playback.

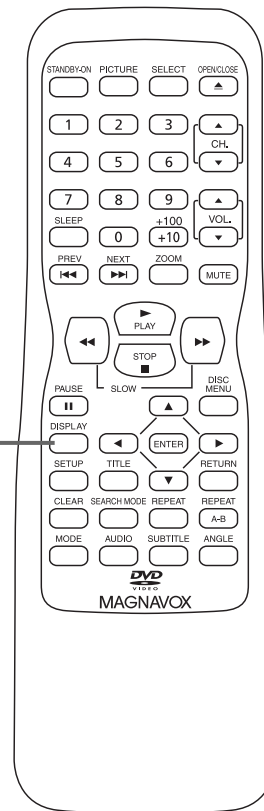
- ☐ T: The current track will play repeatedly.
- ☐ G: Tracks in the current folder (group) will play repeatedly.
- ☐ A: All tracks will play repeatedly.



- Program and Random Playback is available only when Dual Playback is off.
- Folder Playback is available only when Dual Playback is on.

- 2 Press **DISPLAY** repeatedly or press **RETURN** to remove the display.

1-2



Helpful Hint

- For MP3 files recorded in Variable Bit Rate (VBR), the elapsed time displayed on the screen may vary from the actual elapsed time.

40 Black Level, Virtual Surround

- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

Black Level

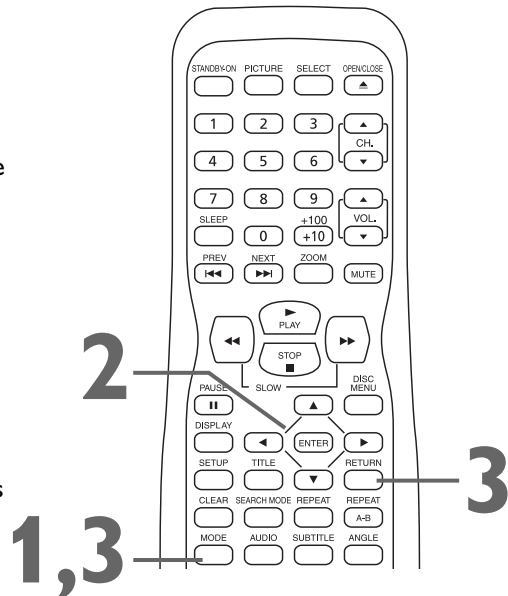
Adjust Black Level to brighten the DVD or Video CD picture during playback.

- 1 During DVD or Video CD playback, press **MODE** so the Black Level icon shows at the top left corner of the TV screen.



- 2 Within 10 seconds, press ◀, ▶ or **ENTER** repeatedly to choose **ON** or **OFF**. **ON** brightens the dark parts of the picture. **OFF** shows the original picture as recorded.

- 3 Press **MODE** repeatedly or press **RETURN** to remove the display.



Virtual Surround

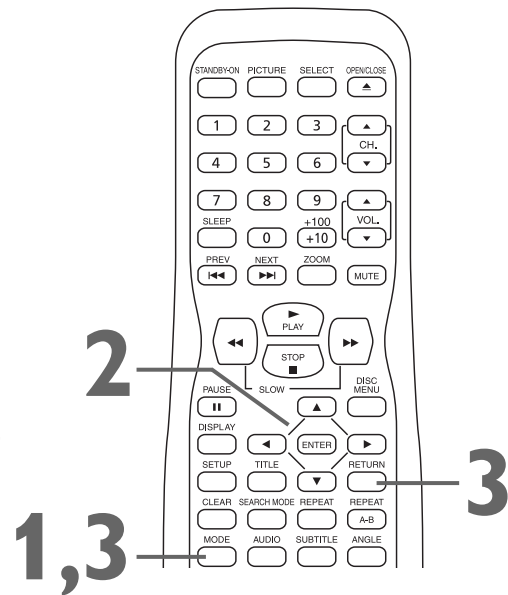
You can enjoy improved stereo sound when you play DVDs, Audio CDs, Video CDs or MP3 files recorded in Dolby Digital or Pulse Code Modulation (PCM). Check the disc case for details on availability.

- 1 During disc playback, press **MODE** repeatedly until the Virtual Surround icon appears at the top left corner of the TV screen.



- 2 While the Virtual Surround icon appears, press ◀, ▶ or **ENTER** to choose 1 (Natural effect), 2 (Emphasized effect) or **OFF**. The default setting is **OFF**. The icon will disappear after about 10 seconds.

- 3 Press **MODE** repeatedly or press **RETURN** to remove the display.



Helpful Hints

- For Audio CDs and Video CDs, you can adjust Virtual Surround only if you set Stereo Sound to **STEREO**. Details are on page 37.
- Virtual Surround and Black Level settings will be saved even if the TV/DVD is turned off.

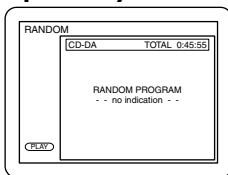
Random Playback, Programmed Playback 41

- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

Random Playback

You may play Audio CD, JPEG or MP3 files in Random order instead of the order in which they are recorded (1,2,3...).

- 1 While playback is stopped, press **MODE** repeatedly until the **RANDOM** screen appears.



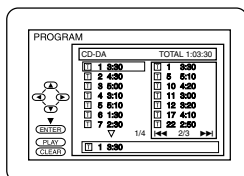
Example: Audio CD

- 2 While the **RANDOM** screen appears, press **PLAY** ►. The tracks will play in random order. After all the tracks have played once, playback will stop.

Programmed Playback

You may determine the order in which Audio CD, MP3 or JPEG files will play. To set a program, follow these steps.

- 1 While playback is stopped, press **MODE** repeatedly until the **PROGRAM** screen appears.
- 2 Press ▲ or ▼ to select a track you want to play, then press **ENTER**.



Example: Audio CD

Press **CLEAR** to erase the last track in the program if you make an error.

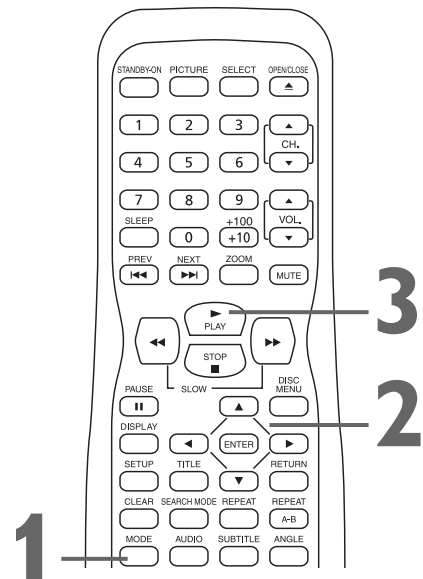
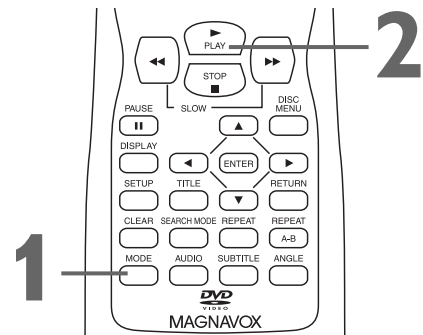
Additional tracks may be on other screens. Press ▼ to go on to the next page, and press ▲ to go back to the previous page.

Repeat this step until you have selected all the tracks you wish to play in the program.

To see tracks in a program when there are more than eight tracks, use **PREV** ◀◀ and **NEXT** ▶▶ to see all the tracks.

For MP3 or JPEG folders, press ◀ or ▶ to go to the previous or next level of folders. Press **TITLE** to return to the first item in the highest level.

- 3 Press **PLAY** ►. The tracks will play once in the order you set. Turning off the TV/DVD or opening the disc tray will erase the Program. You can start Program Playback only while in the **PROGRAM** screen.



Helpful Hints

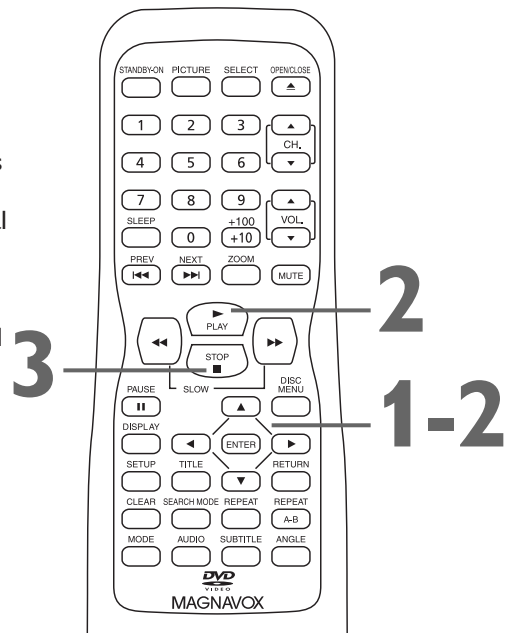
- You cannot use the Number buttons or **SEARCH MODE** to select another track while playing a program. Use **PREV** ◀◀ or **NEXT** ▶▶ to select other tracks in the program.
- You cannot combine Random Playback with Programmed Playback.
- You may play a program or a track within a program repeatedly. During Programmed Playback, press **REPEAT** so **ALL** (all tracks in the program) or **TRACK** appears. The entire program or the current track will play over and over.
- You cannot alter a program during playback.
- A program can have a maximum of 99 tracks.
- To erase all tracks in the program, select **ALL CLEAR** at step 2.
- Program/Random Playback of MP3 or JPEG files is not available while Dual Playback is ON.

42 MP3/JPEG Playback

The TV/DVD will play MP3 and JPEG files that you record and finalize on a CD-RW (Compact Disc-Rewritable) or CD-R (Compact Disc-Recordable).

These discs may contain pictures in a JPEG format or audio tracks in an MP3 format. For example, you may have photographic film developed by a retailer that places the pictures on a CD-R for you. These pictures may be in JPEG format. Or, you may copy or download MP3 music files from certain legal Internet sites, then copy those files onto a CD-R or CD-RW. You cannot make or record such discs using this TV/DVD. See your computer manual for details on recording. Keep these characteristics in mind when making discs you intend to play on the TV/DVD.

- Record MP3 files at a sampling frequency of 44.1 kHz or 48 kHz. Record in a constant bit rate between 32 kbps and 320 kbps.
- When recording JPEG files, the size of the picture should be between 32 x 32 and 6300 x 5100 dots.
- **Before you begin, press SELECT to put the TV/DVD in DVD mode. Then, press PLAY ► or OPEN/CLOSE ▲ to activate DVD mode.**



1 When you put a CD-RW or CD-R with MP3 or JPEG files in the TV/DVD, a file list will appear on the TV screen when you press DISC MENU (If you use PLAY ► to close the disc tray, playback may start automatically). **Press ▲ or ▼ to select a folder, an MP3 file or a JPEG file.**

2 **If you choose a track or file, press PLAY ► or ENTER.** Starting with the track or file you selected, the tracks/files will play in the order they were recorded, i.e. 1, 2, 3.

If you select a folder and press ENTER, the tracks or files within that folder will appear. Press ▲ or ▼ to select the track or file you want, then press PLAY ► or ENTER.

- Press TITLE to return to the first item in the highest level of folders or files.
- Press ◀ or ▶ to return to previous or next levels.
- To change the transition mode of JPEG playback, press MODE during playback. Then press ◀, ▶ or ENTER to switch CUT IN/OUT and FADE IN/OUT. If you choose CUT IN/OUT, the images will cut in and out sharply as playback progresses. If you choose FADE IN/OUT, the images will fade in and out as playback progresses.
- To change the size of the playback image, press MODE repeatedly until the size status appears at the top of the TV screen during playback. Then press ◀, ▶ or ENTER to switch between NORMAL(100%) and SMALL(95%).
- During JPEG playback, press ◀ or ▶ to rotate a picture 90 degrees clockwise or counter-clockwise.

3 **To stop playback, press STOP ■.**

Helpful Hints

- JPEG images and MP3 tracks are known as files. Groups of files are called folders.
- Folders have the □ icon.
- MP3 files have the 🎵 icon.
- JPEG files have the 🖼️ icon.
- A maximum of 255 folders can be recognized. A maximum of 999 files can be recognized.
- During playback, press the Number buttons to select another track. Or, press PREV ◀◀ or NEXT ▶▶ to change tracks. If a track is not available, "X" may appear on the TV screen. Playback may resume at an incorrect track or may continue with its current track.
- Specific Time Playback is not possible with MP3 files.
- Progressive JPEGs (JPEG files saved in the progressive format) will not play on this DVD player.
- High resolution JPEG files takes longer to be displayed.
- Changing size may have no effect on some files (e.g. files with a small picture size).

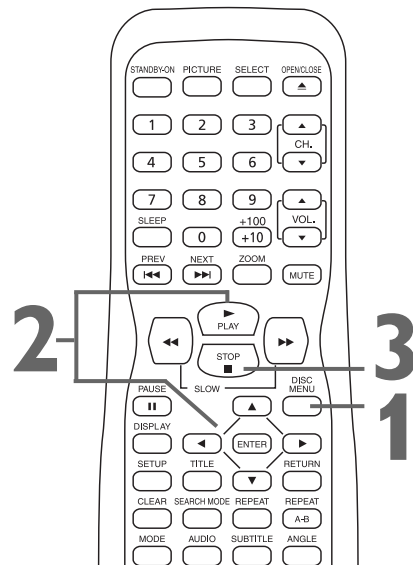
MP3/JPEG Playback (cont'd) 43

- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY ►** or **OPEN/CLOSE ▲** to activate DVD mode.

Dual Playback

This feature lets you play MP3 and JPEG files simultaneously. Available only when Dual Playback is on. See pages 53-54 on how to set the Dual Playback on or off.

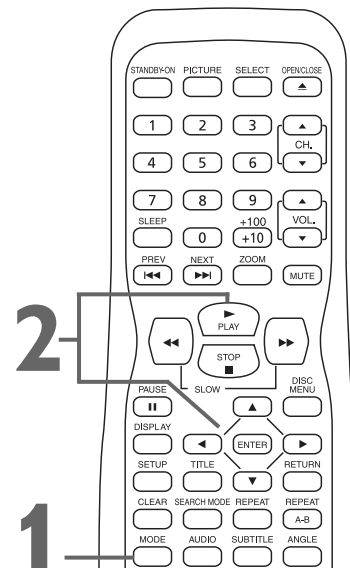
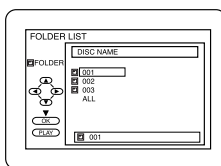
- 1 Press DISC MENU during MP3/JPEG playback.**
A file list will appear.
- 2 Press ▲ or ▼ to select a desired JPEG/MP3 file from the list and press PLAY ► or ENTER.**
- 3 To stop playback, press STOP ■.**



Folder Playback

You may select to play a folder. Available only when Dual Playback is on. See pages 53-54 on how to set the Dual Playback on or off.

- 1 While playback is stopped, press MODE.**
A folder list will appear.
- 2 Press ▲ or ▼ to select a folder, then press PLAY ► or ENTER.**
 - MP3 and JPEG files in the selected folder will play simultaneously.



Helpful Hints

- If you press **PLAY ►** directly after you inserted a disc which contains both MP3 and JPEG files and if the Dual Playback setting is on, Dual Playback will start automatically.
- Zooming or rotating a JPEG file during Dual Playback may cause an intermittent sound.
- Dual Playback may not function properly if MP3 and JPEG files on the disc interfere each other due to the difference in their data size.

44 Language Settings

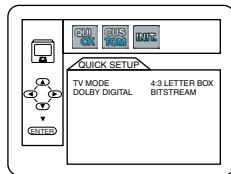
- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

You can use the LANGUAGE settings to select different languages for the audio or subtitles of DVDs, as well as languages for DVD disc menus.

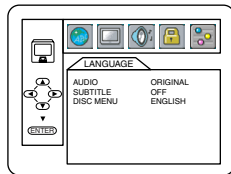
- 1** While playback is stopped, press **SETUP** once. The TV SETUP menu appears.



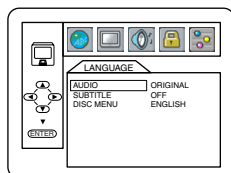
- 2** Press **SETUP** again. The QUICK SETUP screen appears.



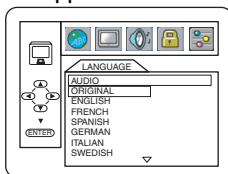
- 3** Press **◀** or **▶** to select **CUSTOM** at the top of the menu, then press **ENTER**.



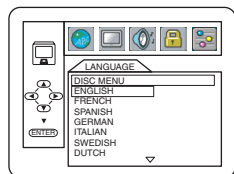
- 4** (LANGUAGE) will be selected. Press **ENTER**.



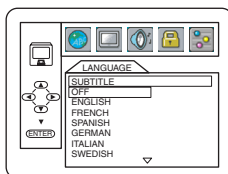
- 5** Press **▲** or **▼** to select **AUDIO**, **SUBTITLE** or **DISC MENU**. Then, press **ENTER**. The language options for the selected item will appear.



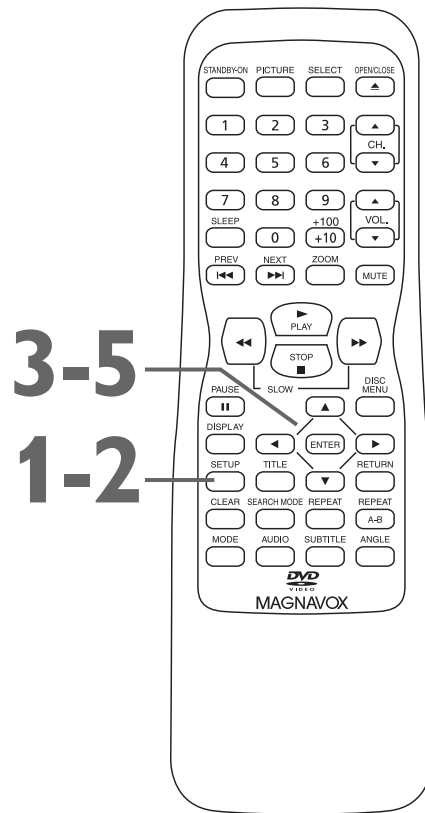
AUDIO:
The DVD's audio plays in the selected language.



DISC MENU:
A DVD's disc menu appears in the selected language.



SUBTITLE:
Subtitles appear in the selected language.



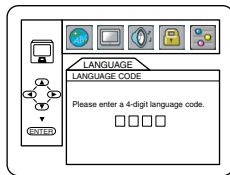
Helpful Hints

- If the DVD's default settings for audio and subtitle are the same language, the subtitles may not show unless you turn them on.
- Use the **AUDIO** and **SUBTITLE** buttons to quickly select audio and subtitles available on the DVD. Details are on pages 35 and 37.
- If you set Audio to **ORIGINAL**, the default setting of the DVD Audio will play.

Language Settings (cont'd) 45

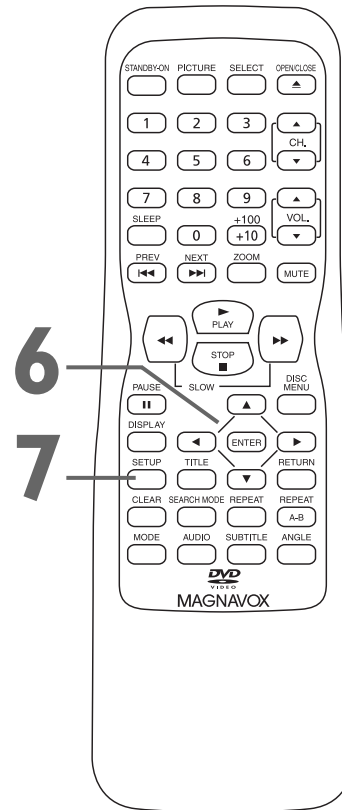
6 Press **▲** or **▼** to select a language, then press **ENTER**. The language lists may continue on multiple screens. Press **▲** or **▼** to move to the other screens.

- If you select OTHER, press four Number buttons to enter the code for the language you desire. Use the Language Codes listed below. The language or language code you select will appear in the LANGUAGE menu beside AUDIO, SUBTITLE or DISC MENU.



- You can select other languages for AUDIO, SUBTITLE and DISC MENU only if the language is available on the disc. If the language you select is not recorded on the DVD, changing these settings will have no effect.

7 Press **SETUP** to remove the menu.



Language Codes

A-B	English	5160	Kannada	5760	Panjabi	6247	T		
Abkhazian	4748	Esperanto	5161	Kashmiri	5765	Pashto	6265	Tagalog	6658
Afar	4747	Estonian	5166	Kazakh	5757	Persian	5247	Tajik	6653
Afrikaans	4752	F-H		Kinyarwanda	6469	Polish	6258	Tamil	6647
Albanian	6563	Faroese	5261	Kirghiz	5771	Portuguese	6266	Tatar	6666
Amharic	4759	Fiji	5256	Kirundi	6460	Pushto	6265	Telugu	6651
Arabic	4764	Finnish	5255	Korean	5761	Quechua	6367	Thai	6654
Armenian	5471	French	5264	Kurdish	5767	Rhaeto-Romance		Tibetan	4861
Assamese	4765	Frisian	5271	L-N			6459	Tigrinya	6655
Aymara	4771	Gaelic (Scots)	5350	Laothian	5861	Romanian	6461	Tonga	6661
Azerbaijani	4772	Galician	5358	Latin	5847	Russian	6467	Tsonga	6665
Bangla	4860	Georgian	5747	Latvian	5868	S		Turkish	6664
Bashkir	4847	German	5051	Lettish	5868	Samoan	6559	Turkmen	6657
Basque	5167	Greek	5158	Lingala	5860	Sangho	6553	Twi	6669
Bengali	4860	Greenlandic	5758	Lithuanian	5866	Sanskrit	6547	U-Z	
Bhutani	5072	Guarani	5360	Macedonian	5957	Serbian	6564	Ukrainian	6757
Bihari	4854	Gujarati	5367	Malagasy	5953	Serbo-Croatian		Urdu	6764
Bislama	4855	Hausa	5447	Malay	5965		6554	Uzbek	6772
Breton	4864	Hebrew	5569	Malayalam	5958	Sesotho	6566	Vietnamese	6855
Bulgarian	4853	Hindi	5455	Maltese	5966	Setswana	6660	Volapuk	6861
Burmese	5971	Hungarian	5467	Maori	5955	Shona	6560	Welsh	4971
Byelorussian	4851	I-K		Marathi	5964	Sindhi	6550	Wolof	6961
C-E		Icelandic	5565	Moldavian	5961	Singhalese	6555	Xhosa	7054
Cambodian	5759	Indonesian	5560	Mongolian	5960	Siswat	6565	Yiddish	5655
Catalan	4947	Interlingua	5547	Nauru	6047	Slovak	6557	Yoruba	7161
Chinese	7254	Interlingue	5551	Nepali	6051	Slovenian	6558	Zulu	7267
Corsican	4961	Inupiak	5557	Norwegian	6061	Somali	6561		
Croatian	5464	Irish	5347	O-R		Spanish	5165		
Czech	4965	Italian	5566	Occitan	6149	Sundanese	6567		
Danish	5047	Japanese	5647	Oriya	6164	Swahili	6569		
Dutch	6058	Javanese	5669	Oromo	6159	Swedish	6568		

46 Display Settings

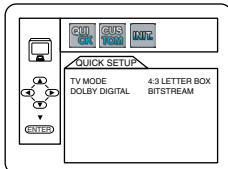
- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

You can change the TV aspect ratio and Still Mode clarity in the display menu.

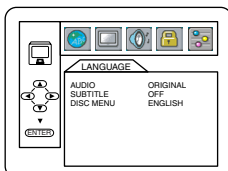
- 1 While playback is stopped, press **SETUP** once. The **TV SETUP** menu appears.



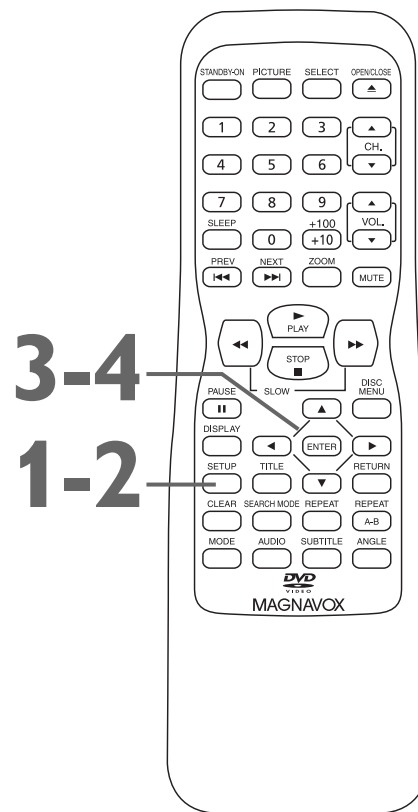
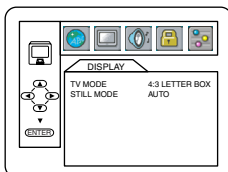
- 2 Press **SETUP** again. The **QUICK SETUP** screen will appear.



- 3 Press ◀ or ▶ to select **CUSTOM** at the top of the menu, then press **ENTER**.



- 4 Press ◀ or ▶ to select **DISPLAY**, then press **ENTER**.



Helpful Hints

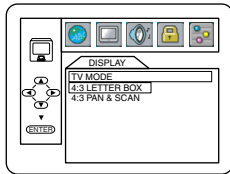
- Selecting a different TV MODE setting is only effective if it is available on the DVD. Check the DVD disc menu or case for details.
- You also can adjust TV MODE in the QUICK SETUP menu that appears when you first press the SETUP button twice. With QUICK selected, press ENTER. TV MODE will be selected, so press ENTER. Press ▲ or ▼ to choose a setting, then press ENTER. Press SETUP to remove the menu.

Display Settings (cont'd) 47

5 Press ▲ or ▼ to select an item, then press ENTER.

- If you selected **TV MODE**, press ▲ or ▼ to select a setting, then press ENTER.

Choose 4:3 LETTER BOX if you want to see the entire, widened picture with black bars at the top and bottom of the screen. This looks like the picture you see when watching movies in a theater. This setting is possible only if the DVD was recorded in the letterbox or widescreen format. Choose 4:3 PAN & SCAN for a full height picture, with both sides trimmed. Some companies refer to this as reformatting the picture to fit your TV screen and may call it the regular or normal format.



TV MODE

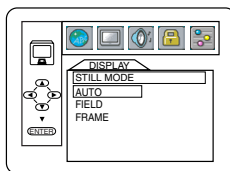
- If you selected **STILL MODE**, press ▲ or ▼ to select a setting, then press ENTER.

This function allows you to adjust the quality of a still image.

AUTO : The default setting.

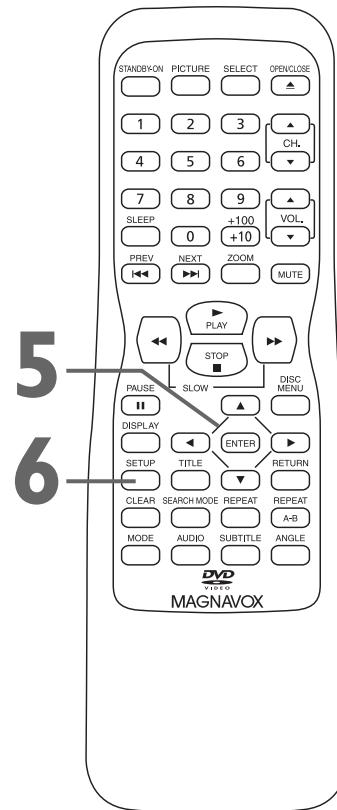
FIELD : Still images will be stabilized but coarse due to the limited amount of data.

FRAME : Quality of still images will be improved due to the simultaneous output of two field data but the images can be unstabilized.



STILL MODE

6 Press SETUP to exit the menus.

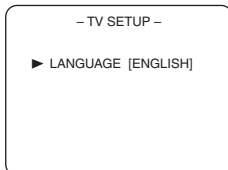


48 Audio Settings

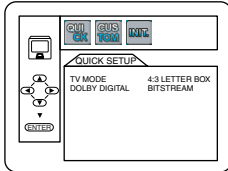
- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

Change Audio settings based on other equipment you connected to the TV/DVD or according to your disc sound features. These settings only affect the Audio from the DVD player of the TV/DVD.

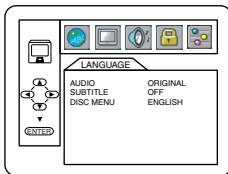
- 1 While playback is stopped, press **SETUP** once. The TV SETUP menu appears.



- 2 Press **SETUP** again. The QUICK SETUP screen will appear.

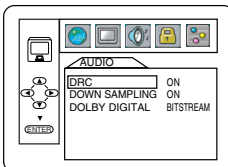


- 3 Press ◀ or ▶ to select **CUSTOM** at the top of the menu, then press **ENTER**.



- 4 Press ◀ or ▶ to select  (AUDIO), then press **ENTER**.

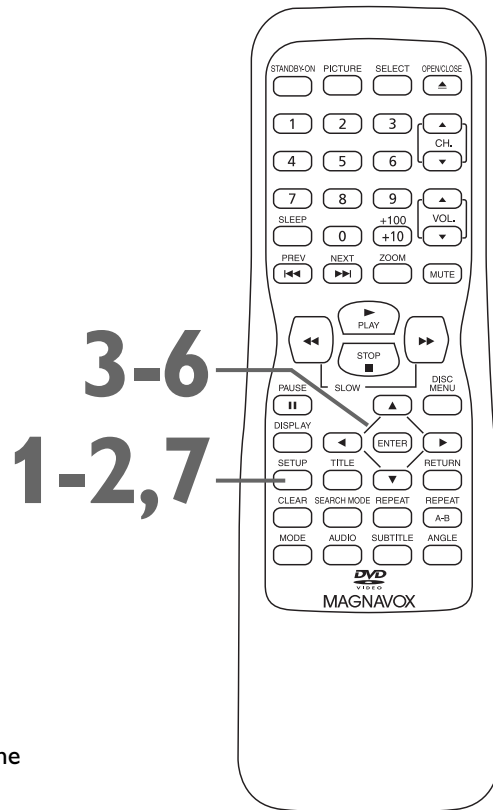
- 5 Press ▲ or ▼ to select **DRC, DOWN SAMPLING** or **DOLBY DIGITAL**, then follow step 6 accordingly.



DRC

- 6
 - If you selected DRC, press **ENTER** repeatedly to turn Dynamic Range Control (DRC) ON or OFF. Choosing ON compresses the range of volume by suppressing loud sounds and raising low sounds. DRC is available only on discs recorded in the Dolby Digital format.
 - If you selected DOWN SAMPLING, press **ENTER** repeatedly to choose ON or OFF. ON sets downsampling to 48 kHz. OFF sets downsampling to 96 kHz. DOWN SAMPLING is available only when the unit is connected to a Stereo using the COAXIAL DIGITAL AUDIO OUT jack.
 - If you selected DOLBY DIGITAL, press **ENTER** repeatedly to select BITSTREAM or PCM. Select BITSTREAM if you used the COAXIAL DIGITAL AUDIO OUT jack to connect the TV/DVD to a stereo that is Dolby Digital compatible. Details are on page 11. Otherwise, choose PCM.

- 7 Press **SETUP** to exit the menu.



Helpful Hints

- Dolby Digital sound must be available on the DVD.
- You can adjust Dolby Digital in the QUICK SETUP menu that appears when you first press SETUP twice. With QUICK SETUP selected, press ENTER. Press ▼ to select DOLBY DIGITAL. Press ENTER to choose BITSTREAM or PCM. Press SETUP to exit the menu.
- When you play a disc that has copyright protection, downsampling will be at 48 kHz, even if you set DOWN SAMPLING to OFF.

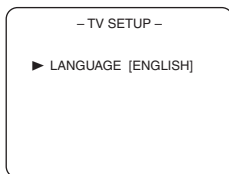
Parental Password 49

The Parental feature prevents viewing of DVDs that exceed your rating limits. This feature will not limit viewing if the DVD is not rated or coded. Check your DVDs and settings before letting children access the TV/DVD. The Parental feature affects only DVD viewing. It does not block TV programming. To block TV viewing, change the V-Chip settings. *Details are on pages 23-27.*

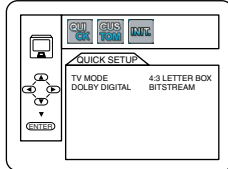
You will need a password to change the Parental settings or to play a blocked disc. Follow these steps to enter or change your password.

- **Before you begin, press SELECT to put the TV/DVD in DVD mode. Then, press PLAY ► or OPEN/CLOSE ▲ to activate DVD mode.**

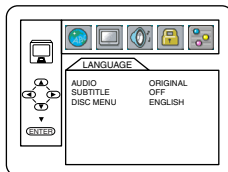
- 1 While playback is stopped, press SETUP once. The TV SETUP menu appears.**



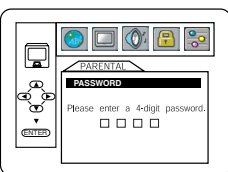
- 2 Press SETUP again. The QUICK SETUP screen will appear.**



- 3 Press ◀ or ▶ to select CUSTOM at the top of the menu, then press ENTER.**

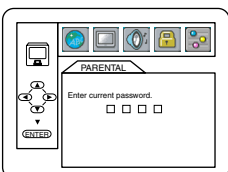


- 4 Press ◀ or ▶ to select (PARENTAL), then press ENTER.**
 - If this is the first time you set a password, this menu will appear.



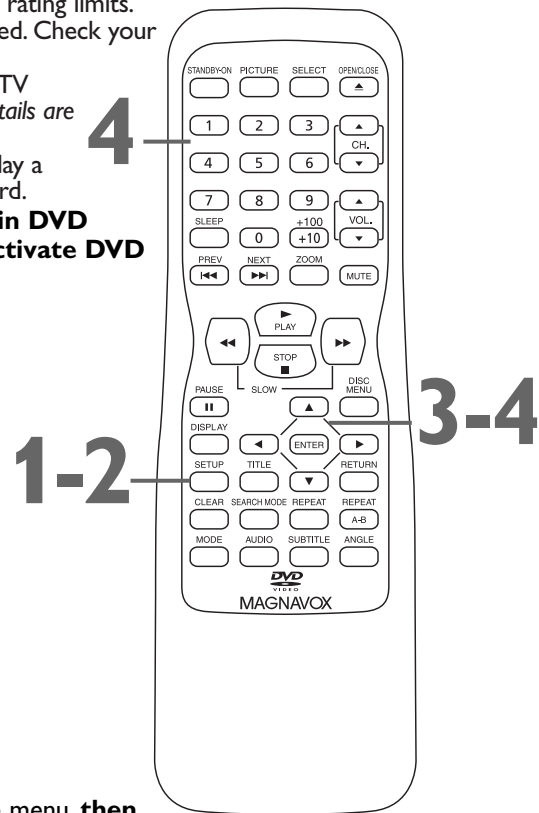
Press the Number buttons to enter a 4-digit password. The password will appear on the screen. Write it down so you don't forget it. **Press ENTER, and proceed to step 7.**

- If you have set a password before, this menu will appear.



Press the Number buttons to enter your current 4-digit password. Asterisks (*) will appear instead of your password. This protects its identity. **Press ENTER, and proceed to step 7.**

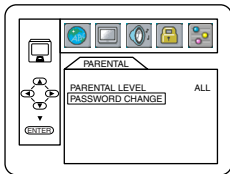
Instructions continue on the next page.



50 Parental Password (cont'd)

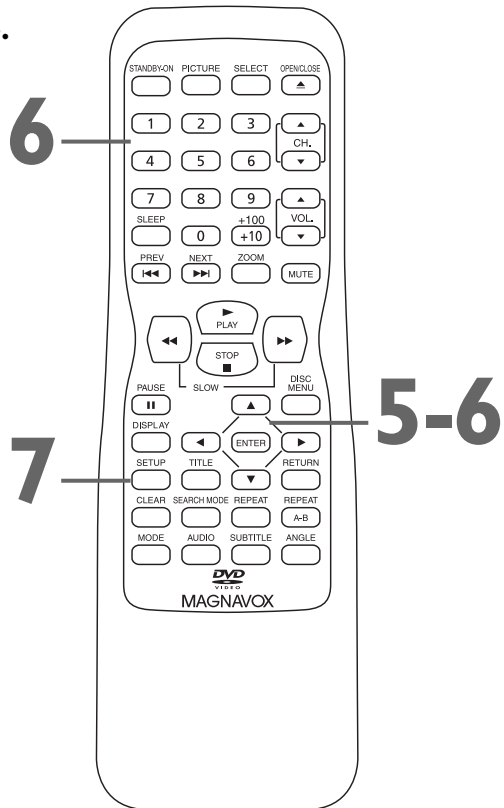
Instructions continued from the previous page.

- 5** If you like to change the password, press **▼** to select **PASSWORD CHANGE**, then press **ENTER**.



- 6** Press the **Number** buttons to enter a **4-digit password**. The password numbers will appear on the screen. Write down the password so you will not forget it. Press **ENTER**. The previous menu will reappear.

- 7** Press **SETUP** to exit the menu.



Helpful Hints

- The default password is 4737. If you forget your password, press Number buttons 4, 7, 3, 7 at step 4. You will be prompted to enter a new four-digit password. Use the Number buttons to enter a new four-digit password, then press ENTER. PARENTAL LEVEL will reset to ALL. Press SETUP to remove the menu. See pages 51-52 to reset PARENTAL LEVEL as you desire.
- A power failure will not erase your password.

Parental Levels 51

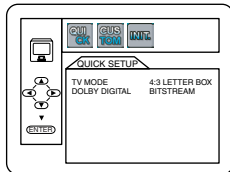
Follow these steps to set the rating level for your DVDs. DVDs whose ratings exceed the level you set will not play.

- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

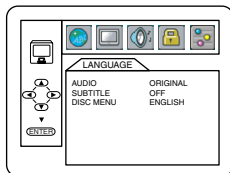
- 1** While playback is stopped, press **SETUP** once. The TV SETUP menu appears.



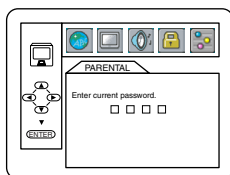
- 2** Press **SETUP** again. The QUICK SETUP screen will appear.



- 3** Press **◀** or **▶** to select **CUSTOM** at the top of the menu, then press **ENTER**.

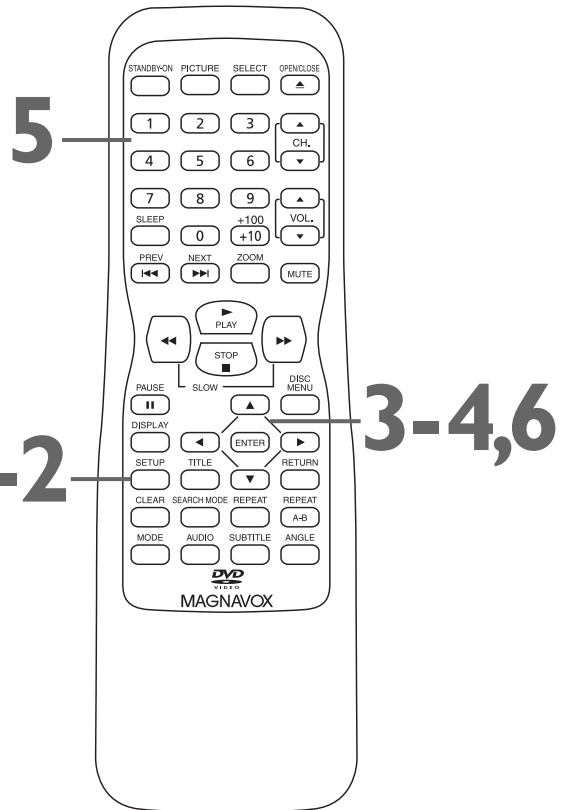
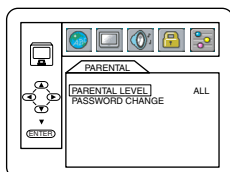


- 4** Press **◀** or **▶** to select **PARENTAL**, then press **ENTER**.



- 5** Press the **Number** buttons to enter your **4-digit password**. Asterisks (*) will appear instead of your password. This protects its identity.

- 6** Press **▲** or **▼** to select **PARENTAL LEVEL**, then press **ENTER**.



RATING EXPLANATIONS

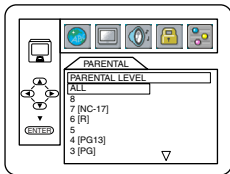
- ALL - The Parental feature is inactive; all discs can play.
- 8 - Adult material
- 7 - NC-17 - Not appropriate for children under 17
- 6 - R - Restricted; parental approval required for viewers under 18.
- 4 - PG13 - Unsuitable for children under 13
- 3 - PG - Parental Guidance suggested.
- 1 - G - General Audience; recommended for all ages.

Instructions continue on the next page.

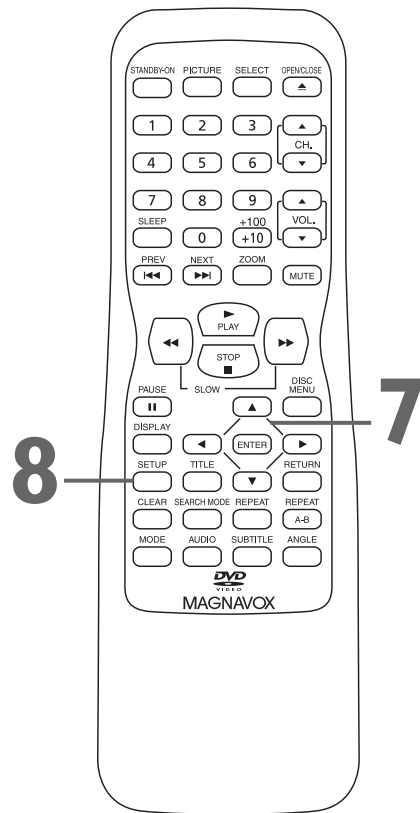
52 Parental Levels (cont'd)

Instructions continued from the previous page.

- 7** Press **▲** or **▼** to select a level, then press **ENTER**. The rating levels continue on two menu screens. Press **▲** or **▼** repeatedly to move to the next or previous screen to find the rating level you want. After making your selection, the previous menu will appear. The level you selected will appear beside **PARENTAL LEVEL**.



- 8** Press **SETUP** to exit the menu.



Helpful Hints

- When you try to play a DVD whose rating exceeds the level you set, an on-screen message will indicate the DVD cannot play. Remove the DVD, then set **PARENTAL LEVEL** to **ALL**. Reload the DVD and begin playback. Some DVDs may let you enter your 4-digit password to begin playback. Follow the on-screen messages as prompted.
- You cannot use the default password (4737) to play a DVD.

Others 53

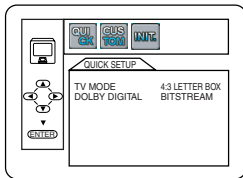
You may adjust the Angle Icon, Automatic Power Off, Dual Playback and Slide Show settings.

- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

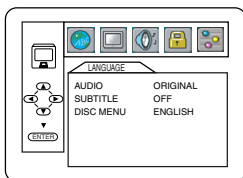
1 While playback is stopped, press **SETUP** once. The TV **SETUP** menu appears.



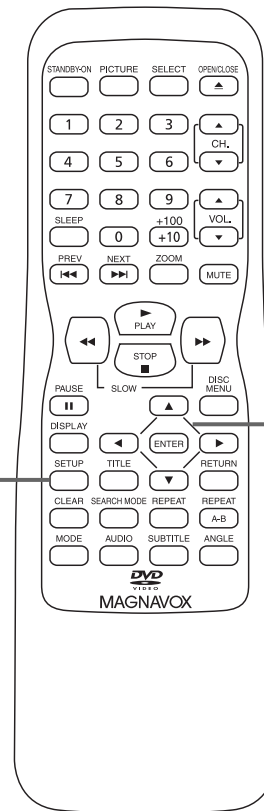
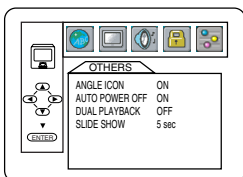
2 Press **SETUP** again. The **QUICK SETUP** screen will appear.



3 Press ◀ or ▶ to select **CUSTOM** at the top of the menu, then press **ENTER**.



4 Press ◀ or ▶ to select **OTHERS** (OTHERS), then press **ENTER**.



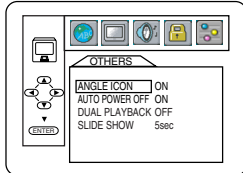
Instructions continue on the next page.

54 Others (cont'd)

Instructions continued from the previous page.

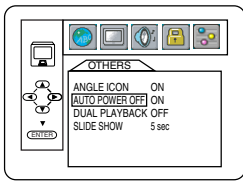
5 Press ▲ or ▼ to select an item, then press ENTER.

- If you selected **ANGLE ICON**, press **ENTER** repeatedly to select **ON** or **OFF**. The default setting is ON. Choose ON to see the Angle icon when multiple camera angles are available during DVD playback. *Details are on page 35.* Choose OFF to disable the Angle icon.



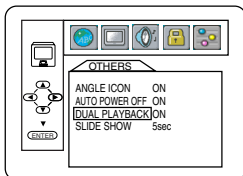
ANGLE ICON

- If you selected **AUTO POWER OFF**, press **ENTER** repeatedly to choose **ON** or **OFF**. The default setting is ON. Choose ON if you want the player to turn off when there is no activity at the player or its remote for 20 minutes.



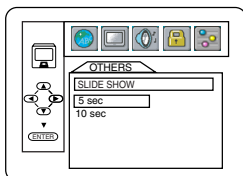
AUTO POWER OFF

- If you selected **DUAL PLAYBACK**, press **ENTER** to choose **ON** or **OFF**. This feature lets you play MP3 and JPEG files simultaneously.



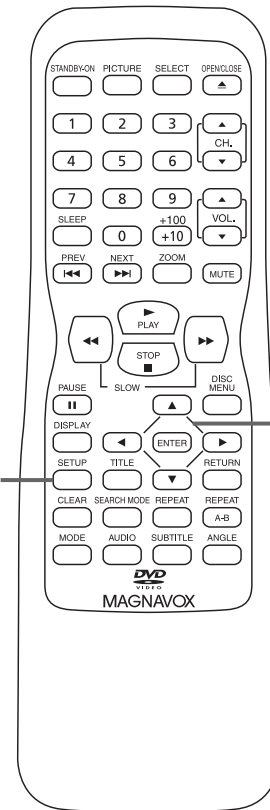
DUAL PLAYBACK

- If you selected **SLIDE SHOW**, press ▲ or ▼ to choose **5sec** or **10sec**, then press **ENTER**. This adjusts the playback speed of the Slide Show. The default setting is 5 sec. Choose 5 sec to display each image for 5 seconds. Choose 10 sec to display each image for 10 seconds.



SLIDE SHOW

6 Press SETUP to remove the menus.

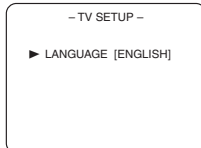


Initializing 55

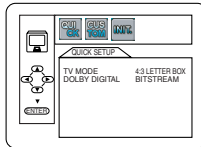
You can return all the DVD player's setup menu items (except for PARENTAL) to their default settings.

- Before you begin, press **SELECT** to put the TV/DVD in DVD mode. Then, press **PLAY** ► or **OPEN/CLOSE** ▲ to activate DVD mode.

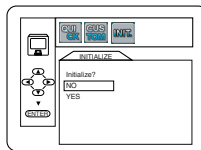
- 1** While playback is stopped, press **SETUP** once. So the TV SETUP menu appears.



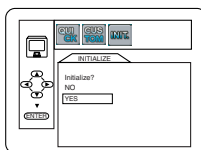
- 2** Press **SETUP** again. The QUICK SETUP screen appears.



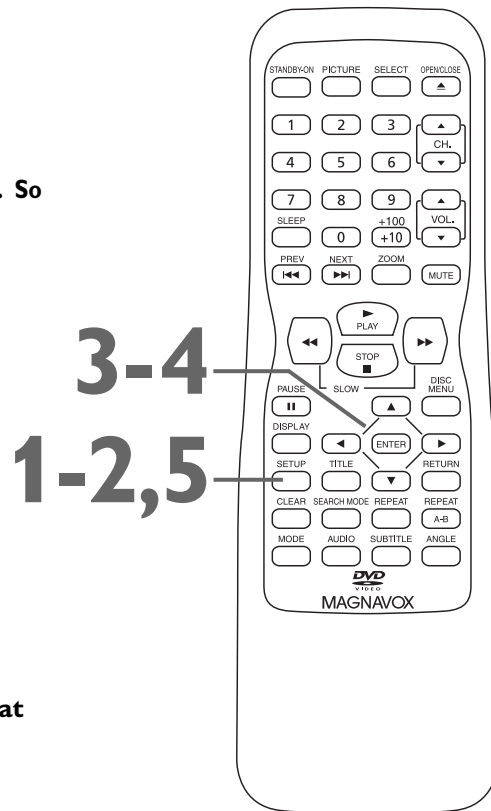
- 3** Press **◀** or **▶** to select **INIT.** (INITIALIZE) at the top of the menu, then press **ENTER**.



- 4** Press **▲** or **▼** to select **YES**. Then, press **ENTER** twice. To cancel, select **NO** instead.



- 5** Press **SETUP** to remove the menu.



56 Glossary

AUDIO IN jacks: red and white jacks that receive sound from other equipment that is connected to the TV/DVD.

Automatic Channel Setup: process in which the TV/DVD memorizes all available TV channels. Then, when you push CH. ▲/▼, you only scan through channels you receive.

Bands: settings that allow you to tune channels.

- **Antenna** – VHF (very high frequency; channels 2-13) and UHF (ultra high frequency; channels 14-69).
- **Cable** – standard channels 1-125 can be received without a Cable Box.

COAXIAL DIGITAL AUDIO OUT jack: jack on the rear of the TV/DVD that sends digital audio to a stereo, allowing you to adjust the volume at the stereo.

Dolby Digital: A surround sound system that provides 5.1 channel sound as used in movie theaters. Sound is heard through multiple channels, not just the right and left as with standard stereo.

VIDEO IN jack: yellow jack on the front of the TV/DVD that receives video from another source (VCR, Camcorder, etc.).

Helpful Hints 57

If you are having problems with your product, check this list of problems and possible solutions before requesting service. You may be able to solve the problem yourself.

Location

For safe operation and satisfactory performance of your TV/DVD, remember the following:

- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation. Do not block the ventilation openings at the top and bottom of the TV/DVD. Do not place the TV/DVD on a carpet, as this will block the ventilation openings.
- Avoid locations subject to strong vibrations.
- Do not place the TV/DVD near strong magnetic fields.
- Do not move the TV/DVD from a cold place to a hot place or vice versa.

Electrical Shock and Fire Hazards

- Do not handle the power cord with wet hands.
- Do not pull the power cord when disconnecting the TV/DVD from the AC (alternating current) wall outlet. Grasp it by the plug.
- If you spill water on the TV/DVD, unplug the power cord immediately and take the TV/DVD to an authorized service center.
- Do not put your fingers or objects into the disc tray.
- Do not place anything on top of the TV/DVD.

Channel reception is poor.

- Check connections, then set up the TV channels again. *Details are on pages 12 and 18.*

TV/DVD has no power.

- Connect the power plug to an AC (alternating current) outlet completely.

Disc cannot play.

- Insert a playable disc. Make sure the disc is labelled for ALL regions or Region 1 and is NTSC compatible. *Details are on page 7.*
- Place the disc correctly in the disc tray. If the disc is one-sided, place the disc in the tray with the label facing up. If the disc is two-sided, make sure the label of the side you want to play is facing up.
- Clean the disc. Make sure the disc is not scratched or warped.
- Cancel the Parental Controls, enter the password or change the control level. *Details are on pages 49-52.*

TV/DVD does not have a picture.

- Adjust the antenna or check the Cable TV or satellite signal connection. If using a Cable Box/Satellite Receiver, set the TV/DVD to channel 3 or 4 or AUX. Change TV channels at the Cable Box/Satellite Receiver. *Details are on pages 9.*
- Adjust the TV/DVD picture controls. *Details are on page 20.*
- Select an active TV channel. *Details are on pages 18-19.*
- Make sure the disc is compatible with the DVD player of the TV/DVD. *Details are on page 7.*

TV/DVD has poor sound or no sound.

- Press VOL. ▲ or ▼ to adjust the volume. Press MUTE to restore the muted volume.
- Check the audio settings for DVD mode. *Details are on page 48.*
- Check the audio settings of the disc. For example, you may have selected "soundtrack" playback or an unavailable sound setting (such as Dolby Digital). *Details are on pages 37 and 48.* Try other sound options provided in the DVD disc menu.

You cannot choose a DVD feature, such as camera angle or audio or subtitle language.

- The feature must be recorded on the DVD. Not all DVDs contain multiple angles, subtitles, etc. Refer to the disc case to see what features are available. If the feature is not available, the ✕ may appear on the TV screen.

TV/DVD does not display Closed Captions for TV programs.

- Make sure Closed Captioning is available for the program. Refer to the TV listings in your local newspaper.

Remote control does not operate the TV/DVD.

- Aim the remote control directly at the remote sensor on the front of the TV/DVD. *Details are on page 14.*
- Remove all obstacles between the remote control and the TV/DVD.
- Inspect and replace the batteries in the remote control. *Details are on page 8.*

Number buttons will not select channels above 69.

- Enter channel numbers as a two-digit number. If you want to select channels 100 and above, press the +100/+10 button, then the Number buttons for the last two digits.
- If you are using an antenna and do not have Cable TV/Satellite, only channels 2-69 will be available.

58 Specifications

General TV

20MC4204
 CRT : 20 inch in-line gun,
 90° deflection tube

13MDTD20
 CRT : 13 inch in-line gun,
 90° deflection tube

Color system : NTSC-M
 Tuner channels: 2-69
 Cable TV: 1-125

General DVD

Color System: NTSC

Electrical Specifications

Sound output: Two speakers, 1W, 8 ohm

Other Specifications

Terminals

Antenna In: 75 ohm unbalanced (F-type)
 Video In: one RCA connector
 Audio L/R In: two RCA connectors
 Headphone: 1/8" stereo (3.5 mm)
 Coaxial Digital
 Audio Out: One pin jack,
 500mVpp (75 ohm)

Operating
 temperature: 41°F to 104°F
 (5°C to 40°C)

Power requirements: AC 120V, 60Hz

20MC4204

Power consumption
 (Maximum): AC 80W
 Dimensions: Height: 20.2" (514 mm)
 Width: 20.2" (512 mm)
 Depth: 19.8" (503 mm)

Weight: 46.3 lbs (21 kg)

13MDTD20

Power consumption
 (Maximum): AC 70W
 Dimensions: Height: 15.8" (402 mm)
 Width: 15.2" (386 mm)
 Depth: 14.8" (376 mm)

Weight: 21.6 lbs (9.8 kg)

Limited Warranty 59

MAGNAVOX LIMITED WARRANTY

Ninety (90) Days Labor & One (1) Year Parts & One (1) Year Display

MAGNAVOX warrants this product against defect in material or workmanship, subject to any conditions set forth as follows:

PROOF OF PURCHASE:

You must have proof of the date of purchase to receive warranted repair on the product. A sales receipt or other document showing the product and the date that you purchased the product as well as the authorized retailer included, is considered such proof.

COVERAGE:

(If this product is determined to be defective)

LABOR: For a period of ninety (90) days from the date of purchase, Magnavox will repair or replace the product, at its option, at no charge, or pay the labor charges to any Magnavox authorized service center. After the period of ninety (90) days, Magnavox will no longer be responsible for charges incurred.

PARTS: For a period of one (1) year, Magnavox will supply, at no charge, new or rebuilt replacement parts in exchange for defective parts. Magnavox authorized service centers will provide removal and installation of the parts under the specified labor warranty.

DISPLAY: For a period of one (1) year from the date of purchase, Magnavox will supply, at no charge, a new or rebuilt active display device in exchange for the defective display. Magnavox authorized service centers will provide removal and installation of the parts under the specified labor warranty. (PTV screens carry a thirty (30) day replacement warranty.)

EXCLUDED FROM WARRANTY COVERAGE

Your warranty does not cover:

- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- Product repair and/or part replacement because of improper installation, connections to improper voltage supply, abuse, neglect, misuse, accident, unauthorized repair or other cause not within the control of Magnavox.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- Damage occurring to product during shipping when improperly packaged or cost of associated packaging.
- Product lost in shipment and no signature verification of receipt can be provided.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Products sold AS IS or RENEWED.

TO OBTAIN WARRANTY SERVICE IN THE U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS...

Contact Magnavox Customer Care Center at:
1-800-705-2000

TO OBTAIN WARRANTY SERVICE IN CANADA...

1-800-661-6162 (French Speaking)
1-800-705-2000 (English or Spanish Speaking)

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY FOR THE CONSUMER. MAGNAVOX SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusions or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract agreement with the MAGNAVOX partnership within ninety (90) days of the date of sale, the limitation on how long an implied warranty lasts does not apply.

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Magnavox, P.O. Box 671539, Marietta, GA. 30006-0026

(Warranty: 4835 710 28125)

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