

User guide

MAGNAVOX

SMART. VERY SMART.

MRD-250 DVD HOME CINEMA SYSTEM



Read this first!

Congratulations on purchasing this Magnavox product. We've included everything you need to get started.

If you have any problems, Magnavox Representatives can help you get the most from your new product by explaining:

- Hookups,
- First Time Setup, and
- Feature Operation.

Do not attempt to return this product to the store.



For fast help, call us first!

1-800-705-2000

Thank you for making Magnavox a part of your home!



Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your MAGNAVOX purchase is registered, you're eligible to receive all the privileges of owning a MAGNAVOX product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your MAGNAVOX warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

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.

And 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.

And 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.

Lawrence J. Blanford
President and Chief Executive Officer

P.S. Remember, to get the most from your MAGNAVOX product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these safety symbols



⚡ 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 PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

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

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. _____

Visit our World Wide Web Site at <http://www.magnavox.com>

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4 Safety Information

IMPORTANT SAFETY INSTRUCTIONS.

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 dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's 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 a third grounding prong. The wide blade or the third prong are provided for your safety. If 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 the 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 the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. 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.

Copyright Protection

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

Federal Communications Commission (FCC)

The set complies with the FCC-Rules, Part 15 and with 21 CFR 1040.1. Operation is subject to the following two conditions:

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

CAUTION

Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

ATTENTION

L'utilisation des commandes ou réglages ou le non-respect des procédures ci-inclues peuvent se traduire par une exposition dangereuse à l'irradiation.

ATENCIÓN

El uso de mando o ajustes o la ejecución de métodos que no sean los aquí descritos puede ocasionar peligro de exposición a radiación.


Important Information for Canada

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

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Class B prescrites dans le Règlement sur le Brouillage Radioélectrique édicté par le Ministère des Communications du Canada.

Installation

- Place the player on a flat, hard, and stable surface.
- There must be sufficient room in front of the DVD Receiver for the Disc drawer to open.
- For cabinet installations, allow about 10cm (4 inches) of free space all around the DVD Receiver for adequate ventilation.
- Do not expose your DVD Receiver to extreme temperatures or humidity.

Class II equipment symbol 
This symbol indicates that the unit has a double insulation system

Welcome!

We hope you enjoy your complete DVD Home Cinema System. This seven-piece, 200-watt system creates dynamic sound quality and realism found only in cinemas. Features of the DVD Home Cinema System include:

- Surround Sound options
- Night Mode: Reduces the range between high and low volumes during Disc playback.
- Parental Controls: Sets a rating level so your children cannot watch a DVD that has a rating higher than the level you set.
- Sleep Timer: Turns the DVD Receiver to Standby Mode (Off) at a preset time.

Package Contents

- Remote Control and two (2) AA batteries
- Audio and Video (Composite) cables
- Five speakers, including speaker wires
- Subwoofer, including connection cable and power cable
- AM loop antenna and FM wire antenna
- Owner's manual, Quick-Use Guide and product registration materials

Environmental Information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Playable Discs

This DVD Home Cinema System will play:

- Digital Video Discs (DVDs)
- Video Compact Discs (VCDs) or Super Video CDs
- All finalized Audio CDs
- MP3 files on Compact Disc Recordable (CD-R) or Compact Disc Rewritable (CD-RW).



Region Codes

DVDs must be labeled for **ALL** regions or for **Region 1** in order to play on the DVD Receiver of this Home Cinema System. You cannot play Discs that are labeled for other regions. The region code for the DVD Receiver is 1 (one). Look for the correct region symbol on your DVDs.

The number inside the globe refers to a region of the world. Region 1 represents the United States of America, Canada, upper regions of North America, Bermuda, the U.S. Virgin Islands, and small regions near Australia.



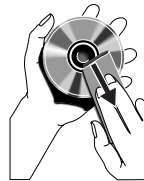
Color Systems

Different color systems are available throughout the world. DVD makers record DVDs in a certain color system. The color system of the DVD may appear on the DVD or its case. The most common color systems are NTSC, PAL, and SECAM. NTSC is used primarily in the United States and North America.

This DVD Receiver is compatible with both NTSC and PAL. Follow the steps on page 26 to set the DVD Receiver to NTSC or PAL. Choose a setting that matches the color system of your TV and your DVDs.

Maintenance and Cleaning

- Clean Discs with a cleaning cloth, wiping from the center to the edge in a straight line. Do not wipe the Disc in a circular motion.



- Do not use solvents such as benzene, thinner, commercially-available cleaners, or anti-static spray intended for analog discs.
- If the DVD Receiver cannot read Discs correctly, use an accessory cleaning CD/DVD to clean the lens. Other cleaning methods may destroy the lens. Always keep the tray closed to avoid dust on the lens.
- The lens may cloud over if you suddenly move the DVD Receiver from cold to warm room conditions. If lens clouding occurs, you may not be able to play a Disc. Leave the power on for about one hour with no Disc in the unit until playback is possible.
- Do not expose the receiver, batteries, or discs to humidity, rain, sand, or excessive heat (from devices or direct sunlight). Always keep the disc tray closed to avoid getting dust on the lens.

Helpful Hint

- If you are having trouble playing a certain Disc, remove the Disc and try a different one. Improperly formatted Discs will not play on this DVD Receiver.

6 Remote Control

Number (0-9) Buttons

Press to enter a Track/Title number, radio station, or TV channel, depending on the mode of the remote.

SELECT Button

Press to choose a speaker channel to adjust with the volume buttons. *Details are on page 35.*

▼▲◀▶ Buttons

Press to move through a DVD Disc Menu or the DVD Receiver's System Menu.

PLAY/PAUSE ▶|| Button

Press to start or pause Disc playback.

REW ◀◀ Button

In DISC mode, press to search backward during playback. Press repeatedly to return to a previous Chapter/Track or to the beginning of the current Chapter/Track. *Details are on page 18.*

In TUNER mode, press to tune to a radio station. *Details are on page 37.*

TITLE Button

Press to display the Title menu (if it is available on the disc). *Details are on page 30.*

LANGUAGE Button

Press to select different audio languages (or commentary tracks) available on the DVD.

REPEAT Button

Press to repeat playback of a Chapter, Track or Disc. *Details are on page 32.*

DISC SKIP Button

Press to select another disc from the tray for playback.

LISTENING Button

Press to select the listening mode. *Details are on page 35.*

Standby or Power ⏻ Button

Press to turn the DVD Receiver on or off (Standby).

SLEEP Button

Press to set the Sleep Timer.

MENU Button

Press to access or remove a DVD Disc Menu (remote must be in DISC mode).

OPEN/CLOSE Button

Press to open and close the disc tray.

STOP ■ Button

Press to stop Disc playback.

ZOOM: Press to enlarge a still picture on the TV screen. *Details are on page 31.*

N/P Button

Press to temporarily change the color system (NTSC/PAL).

SHUFFLE Button

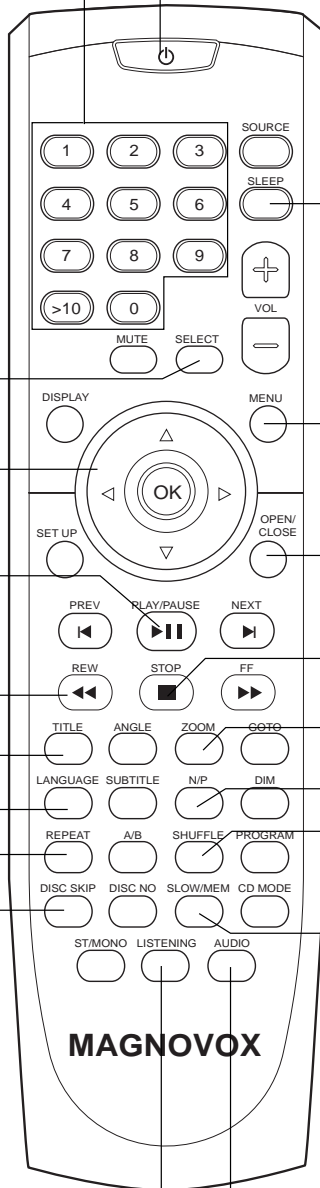
Press to play the discs in random order. *Details are on page 33.*

SLOW/MEM Button

Press to watch a disc at a slower speed. In Tuner mode, press to save radio station to the memory. *Details are on page 37.*

AUDIO Button

Press to select the audio channel. *Details are on page 34.*



Remote Control, cont'd 7

MUTE Button

Press to turn off the sound. Press again to restore the sound to its previous level.

DISPLAY Button

Press to switch the On Screen Display on or off.

SETUP Button

Press to enter or exit the System Menu (remote must be in DISC mode)

PREV ◀ Button

Press to skip to the previous track in DVD/VD mode.
Press to tune the radio in TUNER mode.

ANGLE Button:

Press to select a different camera angle. *Details are on page 21.*

SUBTITLE:

Press to select the subtitle language available on the DVD.

A/B Button

Press to repeat playback of a specific section on a Disc. *Details are on page 32.*

DISC NO. Button

Press to display the active disc number.

ST/MONO Button

Press to switch between mono and stereo mode in TUNER (FM) mode.

Source Buttons

Press to select a sound source for the Receiver (DVD/CD, TUNER (FM), TUNER (AM), TV, or AUX).

VOL(ume) +/- Buttons

Press to increase or decrease the volume.

OK Button

Press to confirm menu selections.

NEXT ▶ Button

Press to skip to the next track in DVD/VD mode.
Press to tune the radio in TUNER mode.

FF ▶▶ Button

In DISC mode, press to go to the next Chapter or Track. Press and hold to search forward. *Details are on page 18.*
In TUNER Mode, press to tune to a radio station. *Details are on page 37.*

GOTO Button

Press to skip to a specific point in the disc playback. *Details are on page 31.*

DIM Button

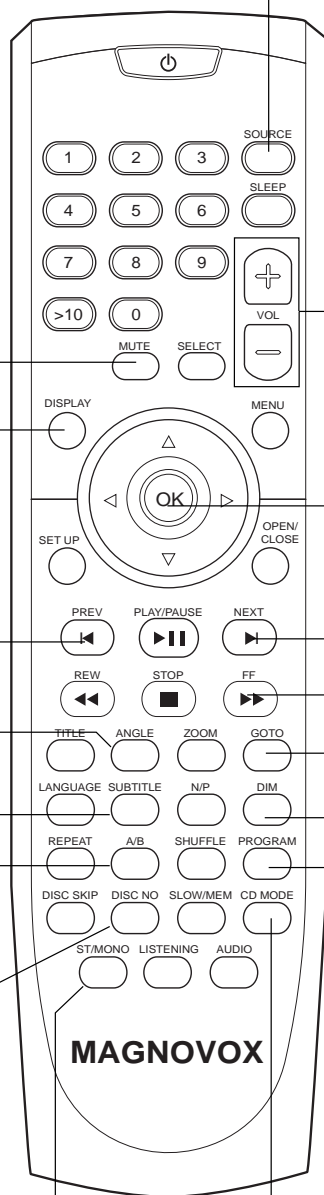
Press to select different levels of brightness for the DVD Receiver's display panel.

PROGRAM Button

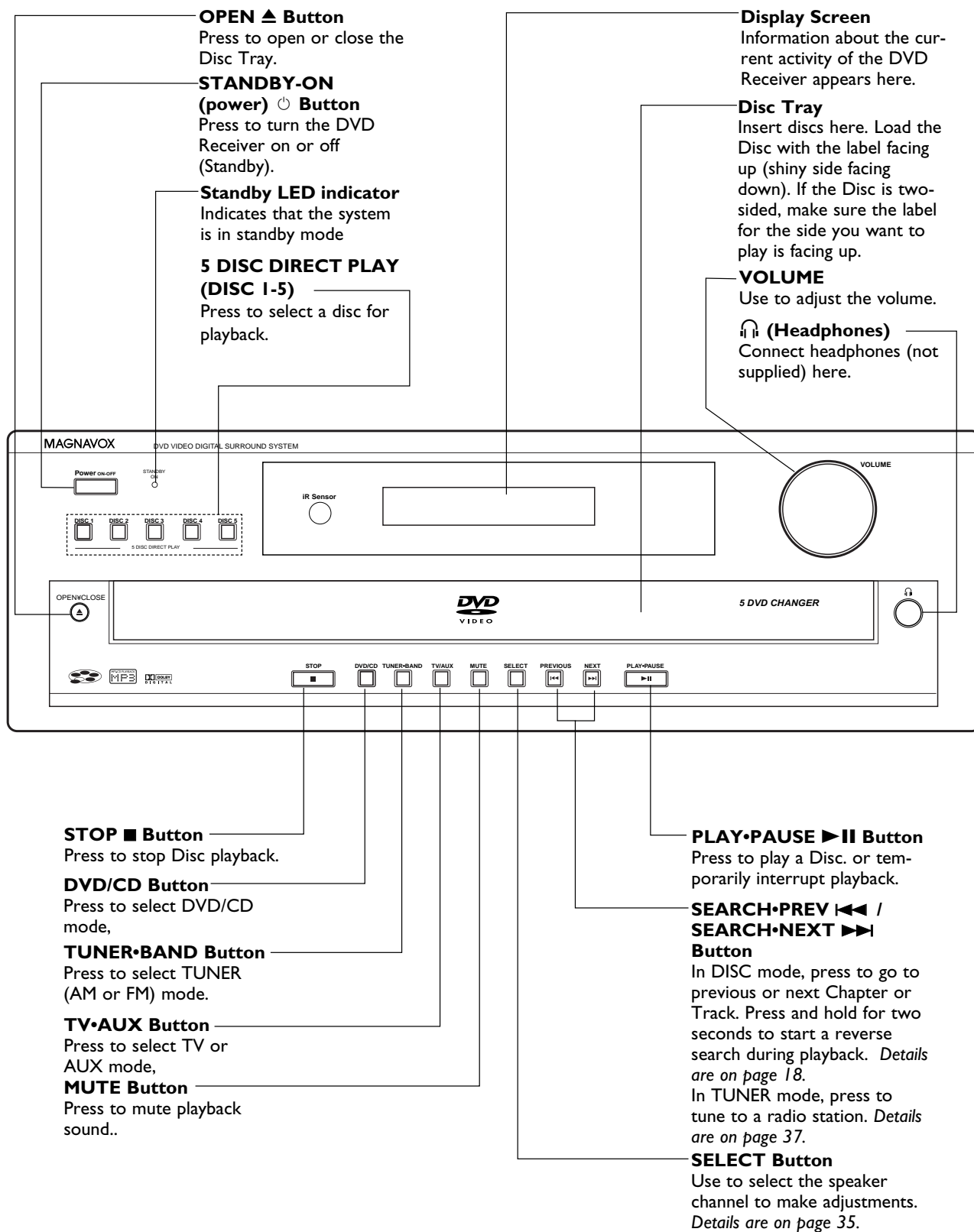
Press to program tracks in DVD/CD mode and radio stations in TUNER mode. *Details are on page 33.*

CD MODE Button

Press to start playback of all CDs in the disc tray. *Details are on page 33.*



8 Front Panel



Rear Panel 9

AUDIO OUT

Connect these jacks to the red and white Audio In jacks of other audio equipment. *Details are on page 15.*

CENTER LINE OUT

Connect to your TV's CENTER IN jack to use the TV as the center speaker.

WOOFER LINE OUT

Connect the Subwoofer here. The Volume knob on the front of the Subwoofer must be turned On in order for the Subwoofer to work.

AUDIO IN (TV/AUX)

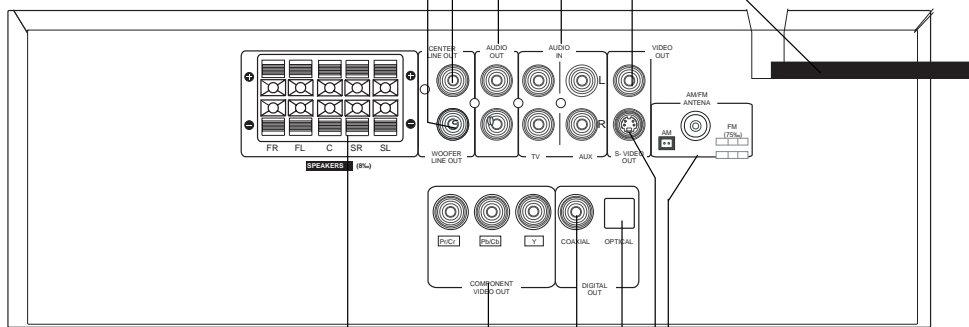
Connect these jacks to the red and white Audio Out jacks of a TV or VCR. This lets you hear TV or VCR sound through the DVD Receiver when it is in TV/AV or Auxiliary (AUX) mode.

VIDEO OUT

Use a composite Video cable (supplied) to connect this jack to the Video In jack on your TV. *Details are on page 11.*

AC POWER CORD

Connect to a standard AC outlet.



FR, FL, C, SR, SL SPEAKERS

Connect the front right (FR), front left (FL), center (C), surround right (SR), and surround left (SL) speakers here. *Details are on page 14.* Surround speakers are sometimes referred to as the Rear speakers. These are the same.

Pr/Cr Pb/Cb Y COMPONENT VIDEO OUT

Use component video cables (not supplied) to connect these jacks to the Component Video In jacks on your TV. *Details are on page 12.*

FM/AM ANTENNA

Connect the supplied AM loop antenna to the AM jack. Connect the supplied FM antenna to the FM (75 ohm) jack. *Details are on page 10.*

S-VIDEO OUT

Use an S-Video cable (not supplied) to connect this jack to the S-Video In jack on your TV. *Details are on page 13.*

DIGITAL OUT-OPTICAL

Connect this jack to the Optical Digital Audio In jack on other audio equipment. *Details are on page 15.*

DIGITAL OUT-COAXIAL

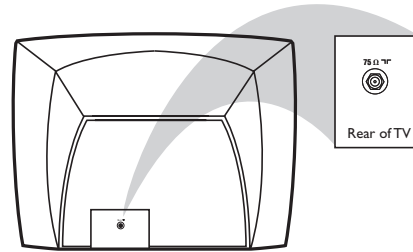
Connect this jack to the Coaxial Digital Audio In jack on other audio equipment. *Details are on page 15.*

10 First Time Setup

Where Do You Start?

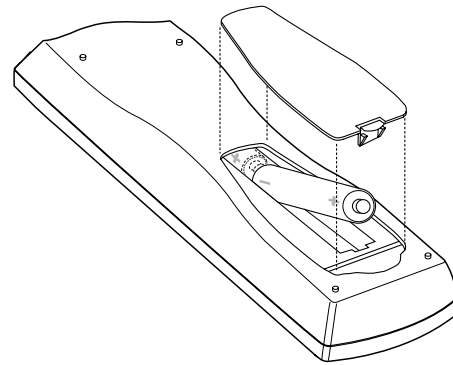
- 1 Disconnect all equipment** from power. Connect equipment to power only after you have finished hooking up everything. Do not change connections with equipment connected to a power outlet.
- 2 Put the batteries in the remote control and connect the AM and FM antennas as detailed below.**
- 3 Connect the DVD Receiver to a Television using one of the options detailed in your separate Quick-Use Guide (or on pages 11-13).**
 - You need only one video connection between the DVD Receiver and the TV. Use Composite Video (good picture quality), S-Video (better picture), or Component Video (best picture). Use the best connection available with your TV.
 - Set the TV to the correct VIDEO IN channel. Such channels may be called AUX(iliary) IN, AUDIO/VIDEO (A/V) IN, EXT1, S-VIDEO, etc. These channels are often near channel 00 on your TV. Or, your TV remote control may have a button or switch that chooses different Video modes. With some TVs, you use the TV's menu to select a Video mode. See your TV manual for details.
- 4 Connect the speakers and Subwoofer to the DVD Receiver as detailed in your Quick-Use Guide (or on page 14).**

Note: If your TV only has a single Antenna In(put) jack, you will need an accessory RF Modulator to view the DVD playback on your TV. See your electronics retailer or contact Magnavox for details on RF Modulator availability.



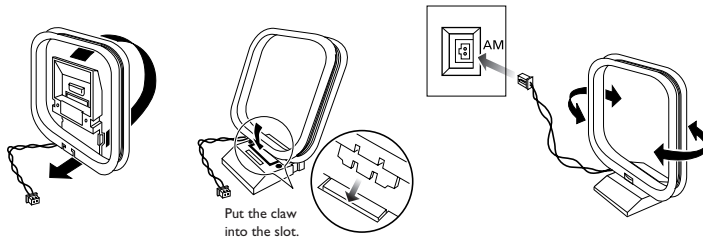
Battery Installation

- 1 Remove the battery compartment lid** by pressing in the tab, then lifting off the lid.
- 2 Place the batteries in the battery compartment**, matching the +/- markings on the batteries to the +/- markings inside the remote.
- 3 Replace the battery compartment lid.**

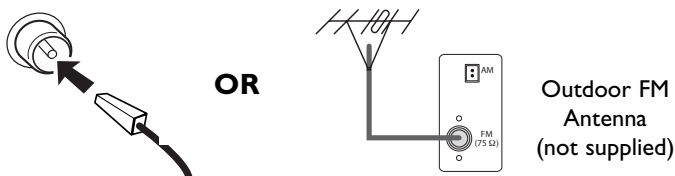


Antenna Connections

- 1 Connect the supplied AM loop antenna to the AM jack on the rear of the DVD Receiver.**
 - Reposition the loop antenna to receive the clearest sound for area stations. Attach the antenna to the base stand if desired.



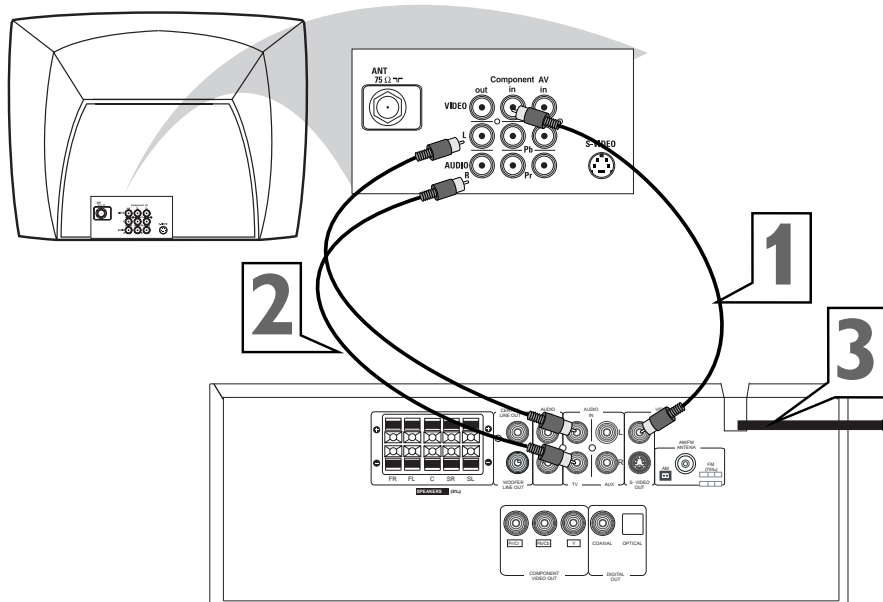
- 2 Connect the supplied FM antenna to the FM jack on the rear of the DVD Receiver.** Extend and adjust the antenna until the clearest station signal is received. For better FM reception, use a 75 ohm coaxial cable (not supplied) to connect the DVD Receiver to an outdoor FM antenna as shown.




Helpful Hint

- To prevent unwanted noise, keep the antenna as far away as possible from the TV, VCR, or any other radiation source.

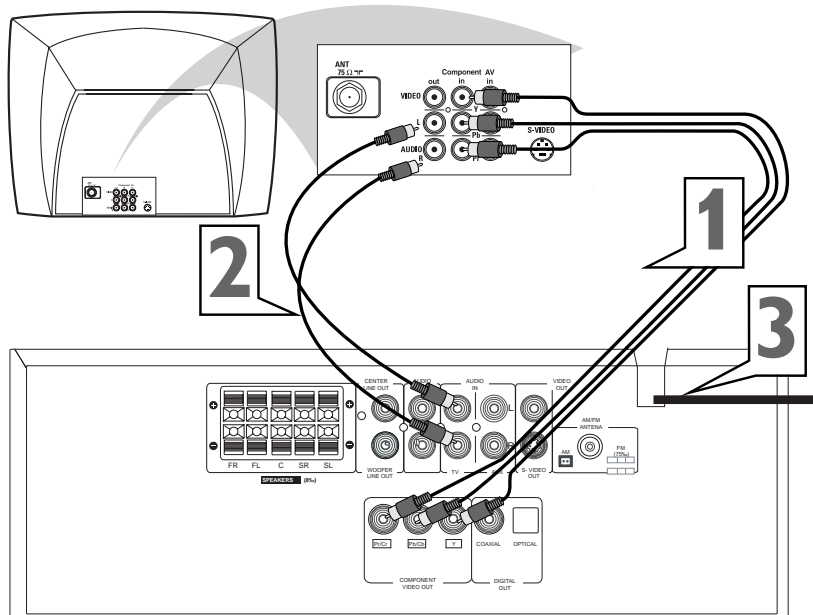
Connecting to a TV with a Composite (yellow) Video In Jack



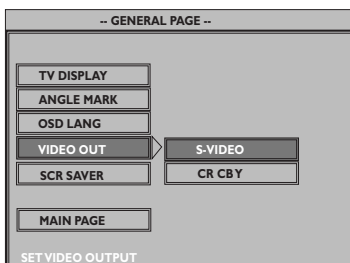
- 1** Connect the DVD Receiver's yellow **VIDEO OUT** jack to the **VIDEO IN** jack on your TV. Use the supplied composite (yellow) RCA-style video cable.
- 2** To hear TV channels through the DVD Home Cinema System, connect the supplied red and white audio cables to the DVD Receiver's red/white, right/left (TV) **AUDIO IN** jacks and to the TV'S right/left **AUDIO OUT** jacks. Match the cable colors to the jack colors.
- 3** Connect the power cords of the DVD Receiver and TV to a power outlet.
- 4** Turn on the TV and set it to the correct Video In channel. Go to the lowest TV channel and change channels down until you find the Video In channel. (It is not channel 3 or 4 as it might be when using a VCR.) See your TV owner's manual for details.
- 5** Press **STANDBY-ON**  on the front of the DVD Receiver to turn on the DVD Receiver. The red Standby light will disappear.

Hookups - TV (cont'd) 12

Connecting to a TV with Component Video In Jacks



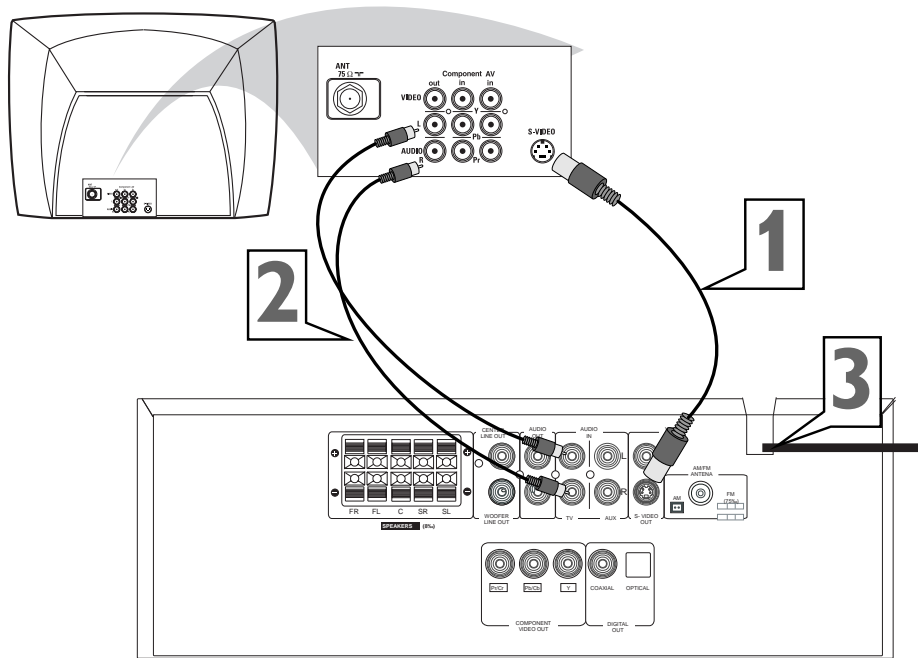
- 1** Connect the DVD Receiver's Pr/Cr Pb/Cb Y COMPONENT VIDEO OUT jacks to the matching Pr/Cr Pb/Cb Y VIDEO IN jacks on the TV. You will need a component video cable (Green-Y; Blue-Pb/Cb; Red- Pr/Cr) (not supplied). Match the cable colors to the jack colors.
- 2** To hear TV channels through the DVD Home Cinema System, connect the supplied red and white audio cables to the DVD Receiver's red/white, right/left (TV) AUDIO IN jacks and to the TV'S right/left AUDIO OUT jacks. Match the cable colors to the jack colors.
- 3** Connect the power cords of the DVD Receiver and TV to a power outlet.
- 4** Turn on the TV and set it to the correct Component Video In channel. Go to the lowest TV channel and change channels down until you find the Component Video In channel. (It is not channel 3 or 4 as it might be when using a VCR.) See your TV owner's manual for details.
- 5** Press **STANDBY-ON** \odot on the front of the DVD Receiver to turn on the DVD Receiver. The red Standby light will disappear.
- 6** Set **VIDEO OUT** to **PR PB Y**. Details are on page 22.



Helpful Hint

- On the TV, the Component Video In jacks may be labeled YUV or Pr/Cr Pb/Cb Y and may be red, blue, and green.

Connecting to a TV with an S-Video In jack



- 1** Connect the DVD Receiver's **S-VIDEO OUT** jack to the **S-VIDEO IN** jack on your TV. You will need an S-Video cable (not supplied).
- 2** To hear TV channels through the DVD Home Cinema System, connect the supplied red and white audio cables to the DVD Receiver's red/white, right/left **AUDIO IN** jacks and to the TV'S right/left **AUDIO OUT** jacks. Match the cable colors to the jack colors.
- 3** Connect the power cords of the DVD Receiver and TV to a power outlet.
- 4** Turn on the TV and set it to the correct **S-Video In** channel. Go to the lowest TV channel and change channels down until you find the S-Video In channel. (It is not channel 3 or 4 as it might be when using a VCR.) See your TV owner's manual for details.
- 5** Press **STANDBY-ON** \odot on the front of the DVD Receiver to turn on the DVD Receiver. The red Standby light will disappear.
- 6** It is not necessary to set **VIDEO OUT** to **S-VIDEO**. S-VIDEO is the DVD Receiver's default setting. However, if your picture is distorted, check the VIDEO OUT setting. Make sure it is set to S-VIDEO. Details are on page 22.

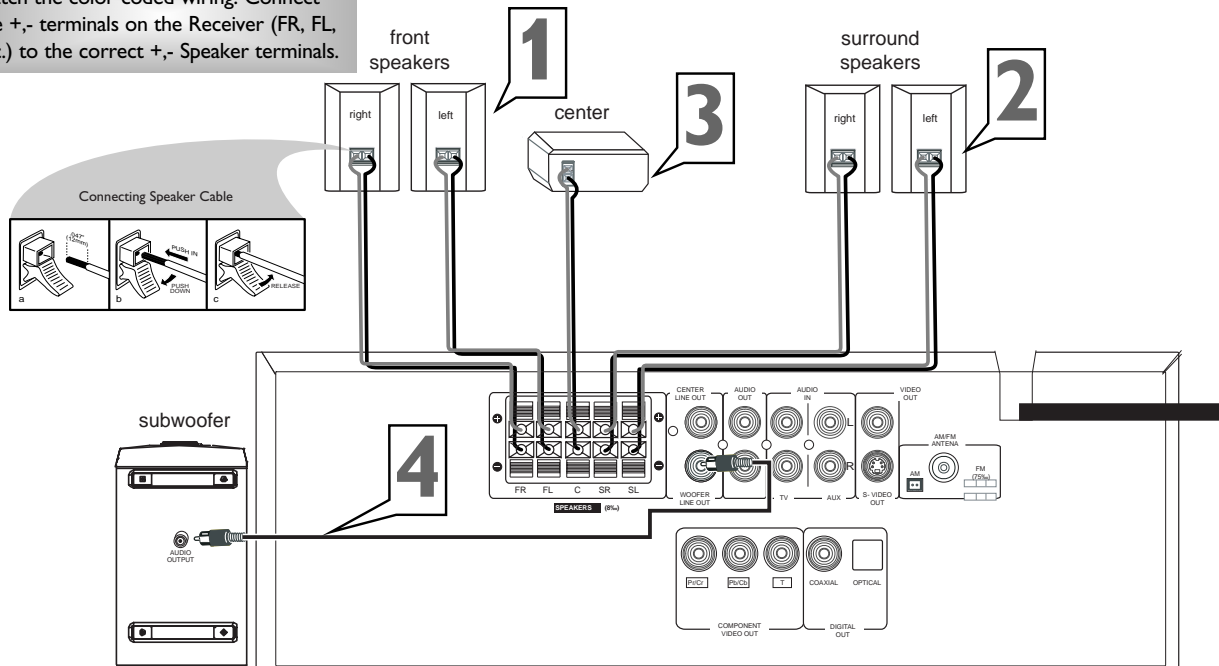
Helpful Hints

- You only need one video connection between the TV and the DVD Receiver. You cannot use S-Video and Component Video at the same time.
- If you used the yellow VIDEO OUT jack on the DVD Receiver to connect it to the TV, you do not need to adjust the VIDEO OUT setting.

14 Hookups - Speakers

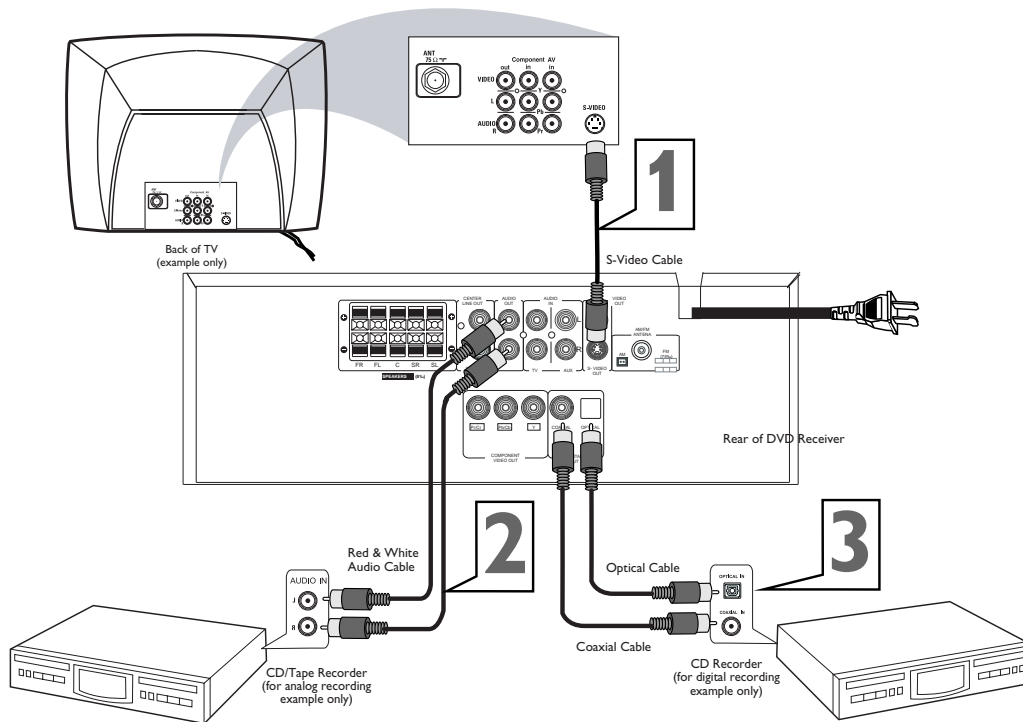
Connecting the Speakers

Use the supplied speaker wires.
Match the color coded wiring. Connect the +/- terminals on the Receiver (FR, FL, etc.) to the correct +/- Speaker terminals.



- 1** **Connect the supplied Front speakers.**
Connect the Front Right speaker to the Red/Black +/- FR (Front Right) SPEAKER jacks on the rear of the DVD Receiver.
Connect the Front Left speaker to the White/Black +/- FL (Front Left) SPEAKER jacks on the rear of the DVD Receiver.
- 2** **Connect the supplied Center speaker to the Green/Black +/- CENTER SPEAKER jacks** on the rear of the DVD Receiver.
- 3** **Connect the supplied Surround speakers.**
Connect the Surround Right speaker to the Gray/Black +/- SR (Surround Right) SPEAKER jacks on the rear of the DVD Receiver.
Connect the Surround Left speaker to the Blue/Black +/- SL (Surround Left) SPEAKER jacks on the rear of the DVD Receiver.
- 4** **Connect the supplied Subwoofer cable (with RCA plugs on either end) to the WOOFER LINE OUT jack** on the DVD Receiver. Then connect the other end of the cable to the AUDIO INPUT jack on the Subwoofer.
 - **Connect the Subwoofer's power cord** to the Subwoofer and to a power outlet when connections are complete. Set the Subwoofer's Volume/On control to On.
 - **Use the SELECT and VOL +/- buttons** on the remote to adjust the volume level of the Subwoofer (-15dB to 10dB).

Connecting to a TV and Optional Audio Equipment



You must connect a TV to the DVD Receiver in order to view DVD playback. However, additional Home Cinema System connections are possible for recording or other sound features.

Always refer to owner's manual of the other equipment for complete connection and use details.

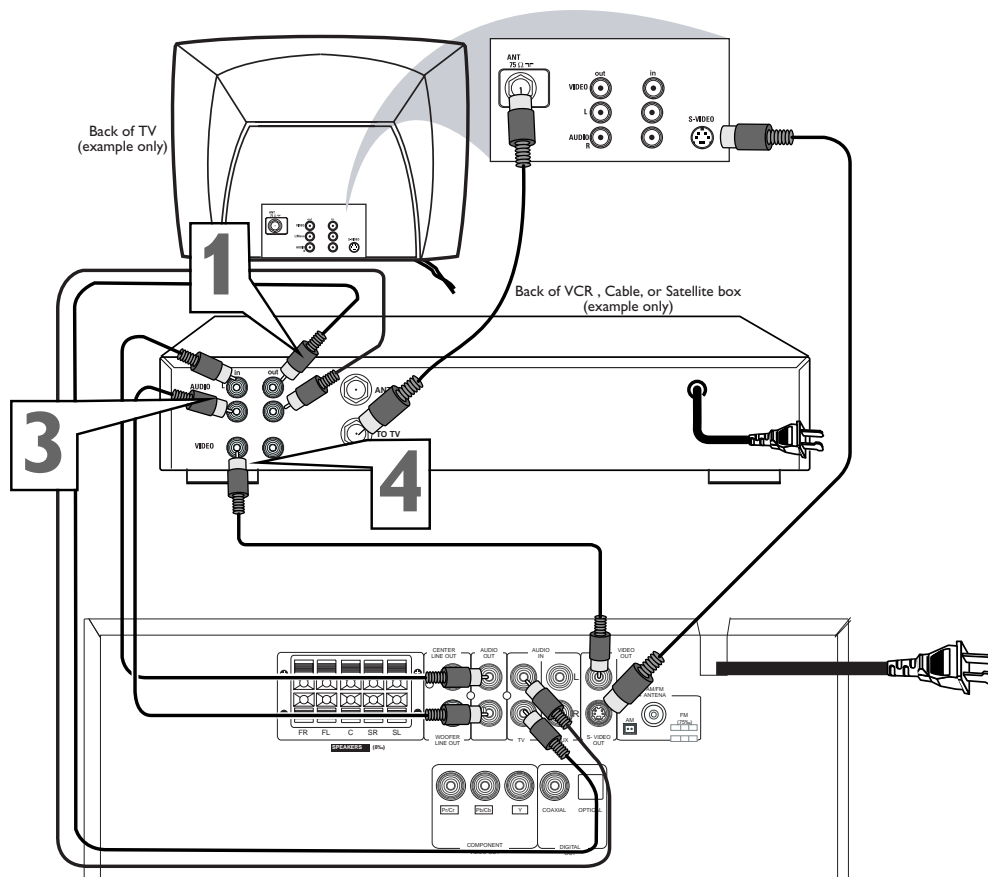
- 1** Connect the DVD Receiver to a TV (as shown on pages 11-13 or in your separate Quick-Use Guide). Make only one video connection, whichever fits your TV.
- 2** Connect the DVD Receiver's AUDIO OUT jacks to the AUDIO IN jacks on an external audio accessory (CD Recorder, etc.) This will allow you to make analog Stereo (two channel, right and left) recordings.
- 3** Or, connect either of the DVD Receiver's DIGITAL OUT jacks - OPTICAL or COAXIAL - to a Stereo that is DTS (Digital Theater System) compatible, has a Dolby Digital decoder, or has CD recording capability.

Helpful Hints

- If you used the DIGITAL OUT - OPTICAL or COAXIAL jacks, set DIGITAL OUTPUT to ALL on the DVD Receiver. Details are on page 24.
- Some DVDs are copy-protected. You cannot record or dub protected Discs using a VCR or a digital recording device.
- Digital recording is possible only on a CD or Video CD.
- MP3 audio is a digital recording option.

16 Hookups - Optional

Connecting to a VCR or Cable/Satellite Box

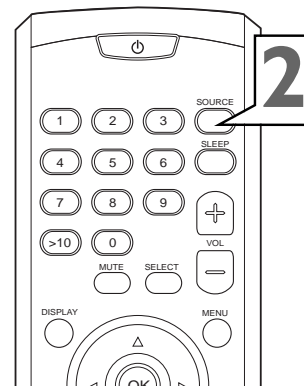


Connecting a VCR or Cable/Satellite Box

You must connect the VCR or cable/satellite box to the TV to view VCR playback or cable/satellite channels. However, you can connect the VCR or cable/satellite box to the receiver in order to hear surround sound playback.

Always refer to owner's manual of the other equipment for complete connection and use details.

- 1** Connect the DVD Receiver's **AUDIO IN AUX L/R** jacks to the **AUDIO OUT L/R** jacks on the VCR or cable/satellite box.
- 2** Select **AUX** mode to listen to the VCR or cable/satellite playback on the surround sound speakers.



Connecting a VCR for Recording DVDs

To view DVD playback while recording, you must connect the Receiver to your TV using a Component (Pr/Cr Pb/Cb Y) or S-Video connection. See page 12-13 for details.

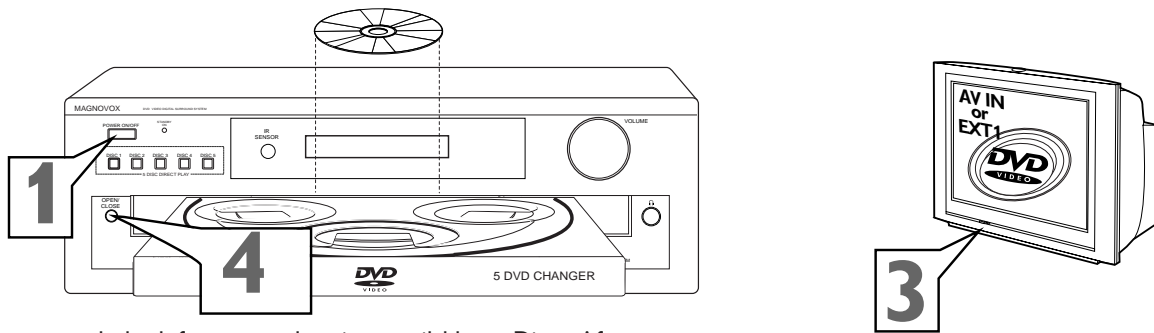
Some DVDs are copy-protected. You cannot record or dub protected Discs using a VCR.

- 3** Connect the DVD Receiver's **AUDIO OUT L/R** jacks to the **AUDIO IN L/R** jacks on the VCR.
- 4** Connect the DVD Receiver's **VIDEO OUT** jack to the **VIDEO IN L/R** jack on the VCR.

Helpful Hints

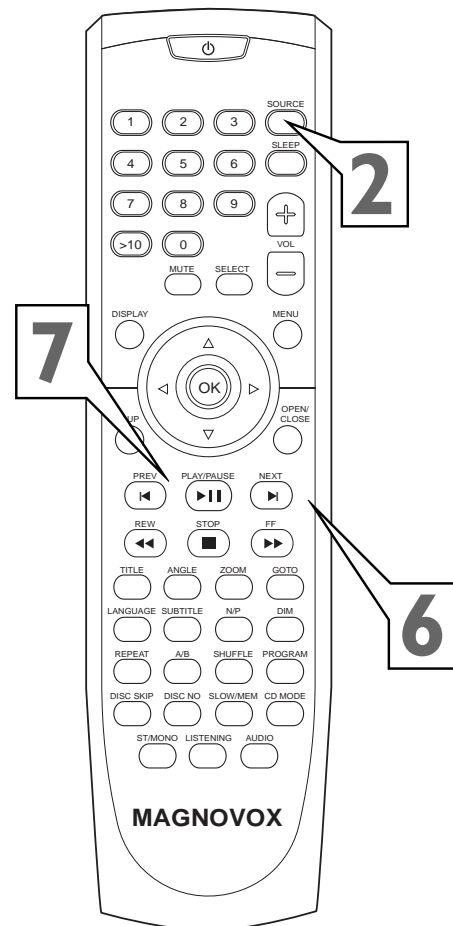
- The receiver only uses all of the surround sound speakers when the incoming audio (from a VCR, cable, or satellite) is in surround sound format (Dolby Digital, DTS, Dolby Pro Logic). If the audio signal is in stereo format, some of the speakers will not be active.

Quick Disc Playback 17



There are many playback features and options available on Discs. After learning the basic operations of the DVD Receiver and the remote control, refer to the latter sections of this manual to learn playback features.

- 1 Press STANDBY-ON** (or **DISC**) to turn on the DVD Receiver. The red Standby light will disappear from the front of the DVD Receiver.
- 2 Press the Source button on the remote control** (or press DVD/CD, Tuner, or AUX/TV on the receiver) to select a sound source (or the equipment you want to hear).
 - The DVD Receiver's display panel will show the selected source (TV/AV, AUX, AM/FM, etc.).
 - Press DIM on the remote to adjust the brightness of the DVD Receiver's display panel.
- 3 Turn on your TV and set it to the correct Video In channel.** You should see the DVD Receiver's background screen on the TV.
- 4 Press OPEN/CLOSE** on the front of the DVD Receiver to open the Disc tray. Load your Disc in the tray, with the label facing up as you place the Disc in the tray.
 - If the Disc is two-sided, make sure the label of the side you want to play is facing up.
- 5 Press DISC SKIP** to rotate the tray to load more discs. Five discs can be loaded onto the disc tray.
- 6 Press OPEN/CLOSE** again to close the tray. Playback may begin automatically.
- 7 If playback does not start automatically, press PLAY/PAUSE** .
 - If DVD playback does not start automatically, a DVD Disc Menu may appear.
 - If the Titles or Chapters are numbered, press a Number button to select an item. Or, press to select an item, then press OK.
- 8 To stop playback at any time, press STOP** .



Helpful Hints



- If the Disc is Locked by Parental Control, you must enter the four-digit code to unlock the Disc. Details are on pages 32-33.
- DVDs have a region code. Your DVD Receiver will not play Discs that have a region code other than 1 (one). Details are on page 5.
- Resume may not be available with some DVDs. Resume may apply to some Video CDs also.

DVD Disc Menus





DVD Disc Menus vary among DVDs. The DVD Disc Menus allow you to choose different playback features from those available on the Disc. If the DVD has a menu, access it by pressing DISC MENU on the remote control. If the current Title of the current DVD has a specific Title Menu, it may appear on the TV screen. Otherwise, the general DVD Disc Menu will appear. Use to select a Title, Chapter, or other feature, then press PLAY/PAUSE or OK to start playing the Disc or to use a feature.

18 Playback Features




Pausing Playback

- 1 Press **PLAY/PAUSE**  during playback to freeze the picture and mute the sound.
- 2 Press **PLAY/PAUSE**  to resume regular playback.



Selecting Another Track/Chapter

- 1 Press  once during playback to go to the beginning of the current Track/Chapter. Press  multiple times to go to previous Tracks/Chapters.
- 2 Press  during playback to go to the beginning of the next Track/Chapter. Press  multiple times to go to subsequent Tracks/Chapters.

Searching

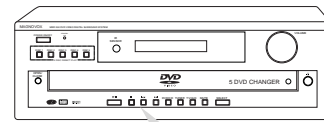
- 1 Press and hold  or  for about two seconds to fast reverse or fast forward the Disc.
- 2 Press **PLAY/PAUSE**  to resume normal playback.

Stopping and Resuming Playback

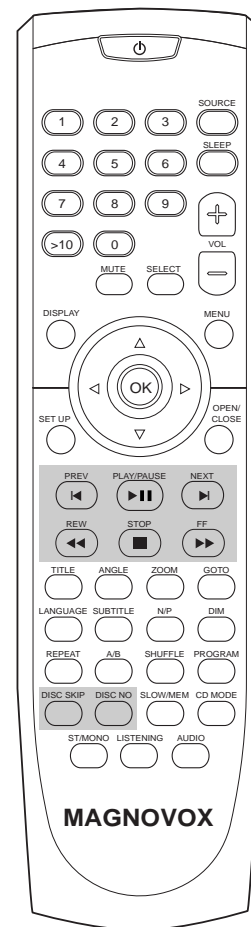
- 1 Press **STOP**  to stop Disc playback.
- 2 Press **PLAY**  to restart playback from the point at which it last stopped.

Disc Number and Disc Skip



- 1 Press **DISC NO** during playback to display the current disc number.
- 2 Press **DISC SKIP** to go to the next disc.



Playback Buttons
Available on either the DVD Receiver or Remote Control.



Helpful Hints

- During Repeat playback, pressing  or  will replay the same Track or Chapter.
- Opening the disc tray or turning off the DVD Receiver's power will cancel the Resume feature. Playback will restart at the beginning of the Disc as usual.
- Resume is not available on all Discs.

System Setup 19

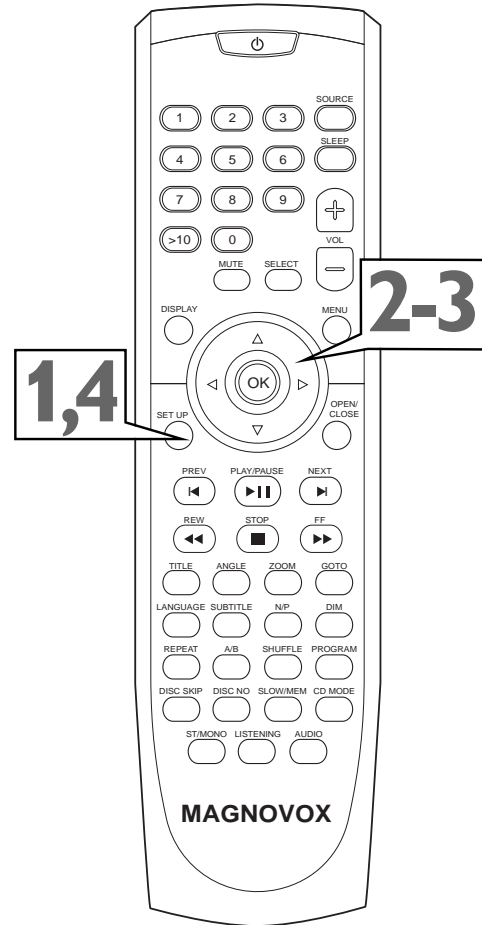
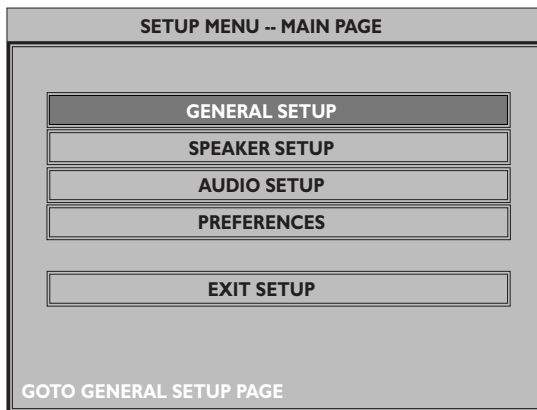
Use the Setup Menu to set up the system's features. Press **SETUP** to access DVD Receiver's Setup Menu.

The menu is divided into four categories. Use General Setup, Speaker Setup, Audio Setup, and Preferences to set you receiver.

Press **▼▲◀▶** and **OK** to choose a Menu item and change the settings.

Even if a feature is set in the System Menu, it will not be available if the current Disc does not include that feature. *Details are on pages 20-29.*

- 1** Press **SETUP**. The System Menu appears on the TV screen.
- 2** Press **▼** or **▲** to move through the Menu.
- 3** Press **OK** to confirm a selection.
- 4** To exit, press **SYSTEM MENU** or **OK**.



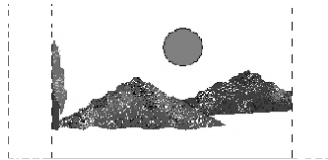
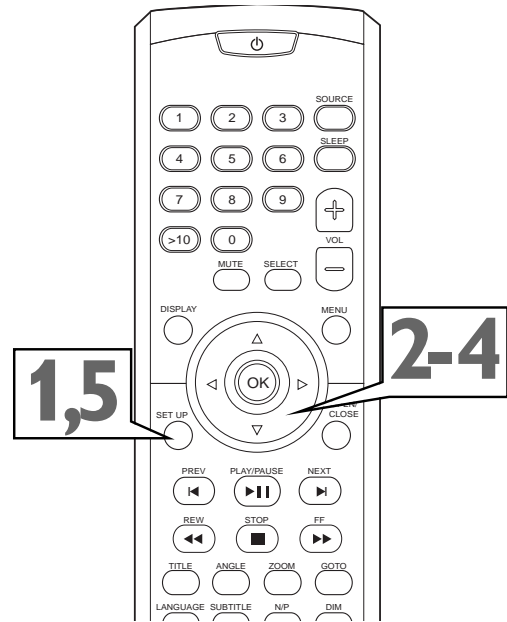
Helpful Hints

- Features described in this manual may not be available on every Disc. If the feature is not on the Disc, you cannot use the DVD Receiver to make the feature available.
- When using the menu, a brief description of the selected feature appears at the bottom of the screen.

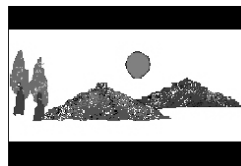
20 TV Display

TV Display

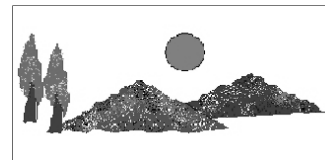
- 1 Press **SETUP**.
- 2 **GENERAL SETUP** will be selected, press **OK**.
- 3 **TV DISPLAY** will be selected. Press **▶**.
- 4 Press **▼** or **▲** to select **Normal / PS (pan & scan)**, **Normal / LB (Letterbox)**, or **16:9 (Widescreen)**, then press **OK**.
 - Select 4:3 PS (pan & scan) if you want both sides of the picture to be trimmed (or formatted to fit your TV screen). This setting is possible only if the DVD is recorded in pan & scan or regular format. Check the Disc case for details.
 - Select 4:3 LB (letterbox) if you want to see the 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. Check the Disc case for details.
 - Select 16:9 if you connected the DVD Receiver to a widescreen TV. Also remember to set the TV to its "full size" setting.
- 5 Press **SETUP** to remove the Menu Bar.



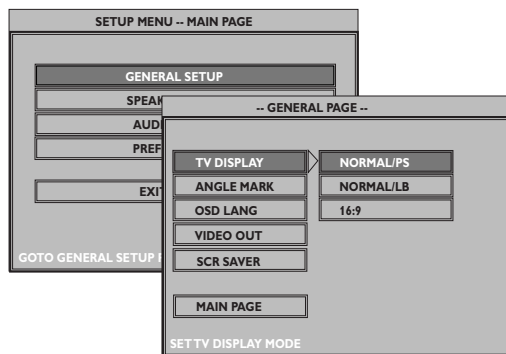
Pan & Scan



Letterbox



Widescreen (16:9)



Helpful Hints

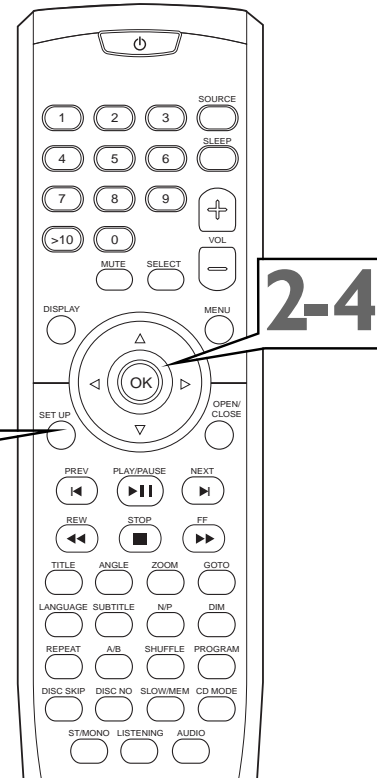
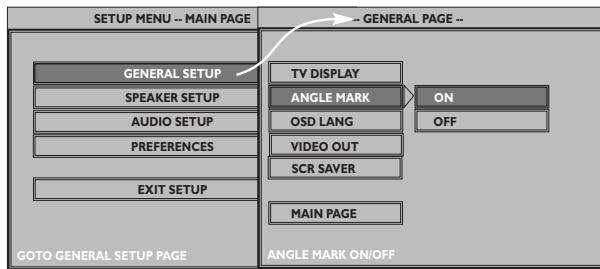
- If a desired Audio or Subtitle language cannot be selected, the language is not available on the current Disc.
- Some DVDs only allow you to change the Audio or Subtitle language in the DVD Disc menu. Refer to the DVD's Disc menu for details on changing the Audio or Subtitle language.

Angle Mark, OSD Language 21

Angle Mark

When turned on the Angle Mark feature will place a [icon] on the screen when the screen is recorded in multiple angles. Press ANGLE on the Remote Control to select the angle you would like to view.

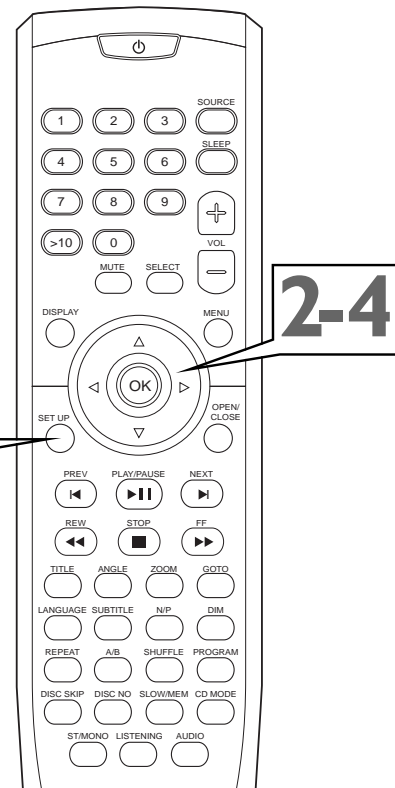
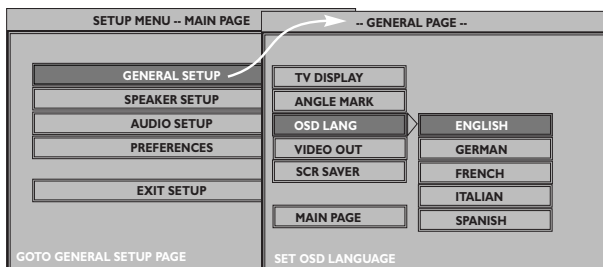
- 1 Press **SETUP**.
- 2 **GENERAL SETUP** will be selected, press **OK**.
- 3 Press **▼** to select Angle Mark. Then Press **▶**.
- 4 Press **▲** or **▼** to select ON or OFF.
- 5 Press **SETUP** to remove the Menu Bar.



OSD Language

Select your preferred On Screen Display (OSD) Language by using the OSD LANG menu.

- 1 Press **SETUP**.
- 2 **GENERAL SETUP** will be selected, press **OK**.
- 3 Press **▼** to select OSD LANG. Then Press **▶**.
- 4 Press **▲** or **▼** to select a language: English, German, French, Italian, or Spanish.
- 5 Press **SETUP** to remove the Menu Bar.

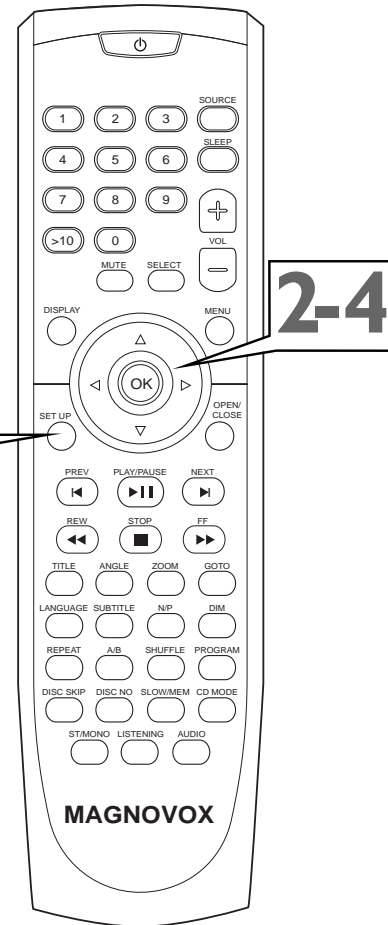
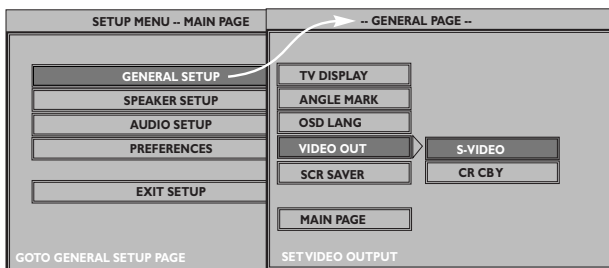


22 Video Out

Video Out

Select the type of video connection you have set up between your TV and DVD receiver.

- 1 Press **SETUP**.
- 2 **GENERAL SETUP** will be selected, press **OK**.
- 3 Press **▼** to select **VIDEO OUT**. Then Press **▶**.
- 4 Press **▲** or **▼** to select **S-VIDEO** or **CR CB Y**.
 - Select **S-VIDEO** if you have used an **S-VIDEO** cable to make the connection. This is the default setting.
 - Select **CR CB Y** if you used the Component (Cr CB Y) cables to make the connection.
- 5 Press **SETUP** to remove the Menu Bar.

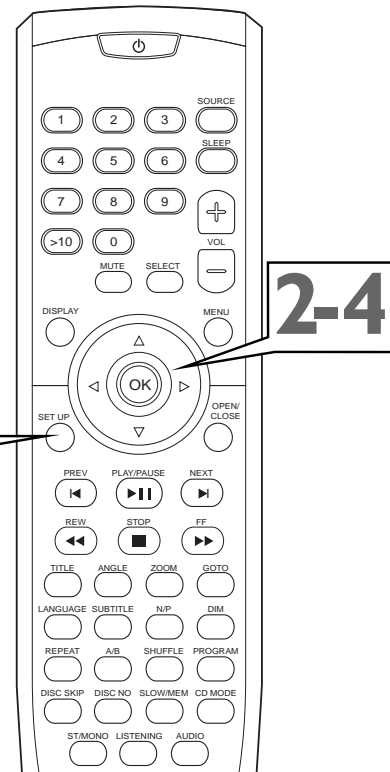
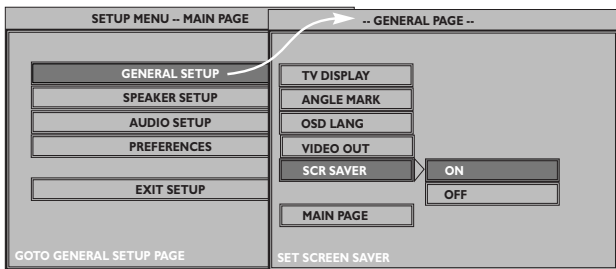


Screen Saver, Speaker Delay 23

Screen Saver

Turn the screen saver (SCR SAVER) on or off.

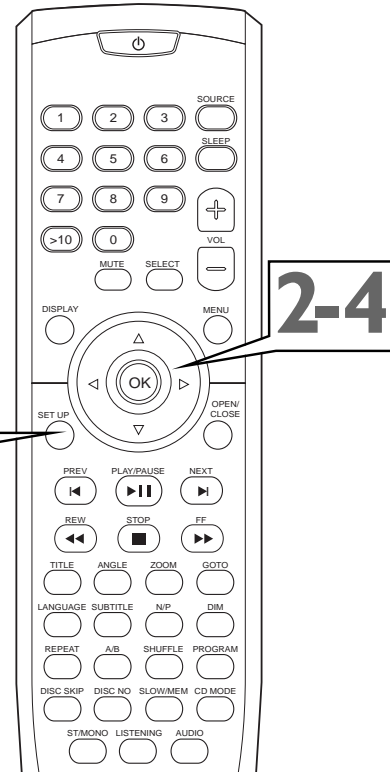
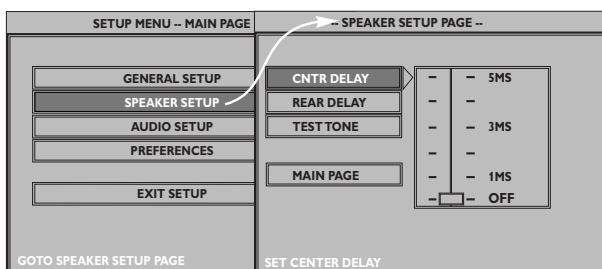
- 1 Press **SETUP**.
- 2 **GENERAL SETUP** will be selected, press **OK**.
- 3 Press **▼** to select **SCR SAVER**. Then Press **▶**.
- 4 Press **▲** or **▼** to select **ON** or **OFF**.
- 5 Press **SETUP** to remove the Menu Bar.



Speaker Delay

Set the delay according to how far your listening position is from the speakers.

- 1 Press **SETUP**.
- 2 Press **▼** to select **SPEAKER SETUP**. Then press **OK**.
- 3 Press **▼** to select **CNTR DELAY** or **REAR DELAY**. Then Press **▶**.
- 4 Press **▲** and **▼** to set the delay.
- 5 Press **SETUP** to remove the Menu Bar.

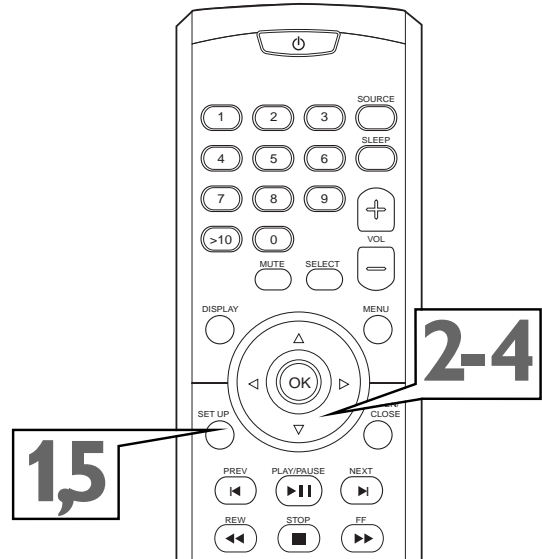
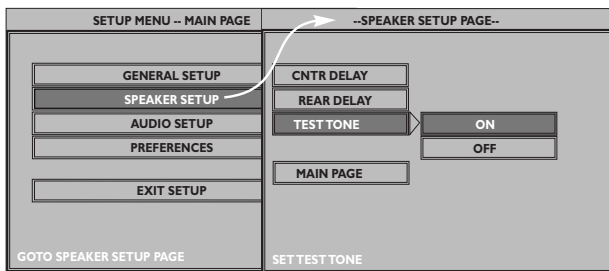


24 Test Tone, Digital Out

Test Tone

Use the test tone to set the speakers to desired distance and volume.

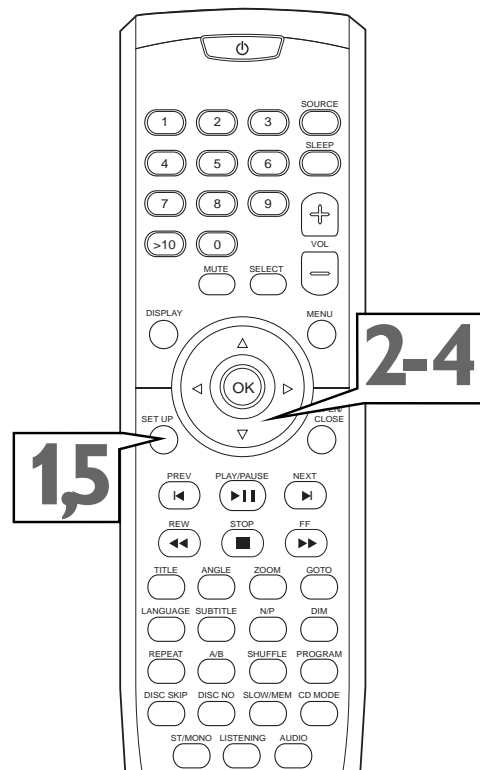
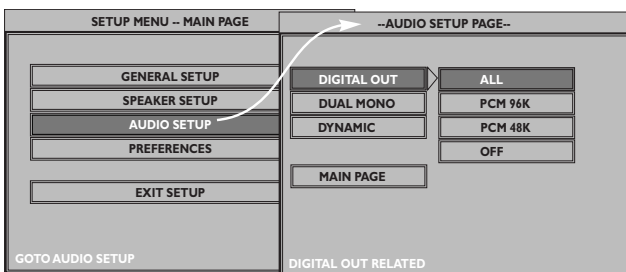
- 1 Press **SETUP**.
- 2 Press **▼** to select **SPEAKER SETUP**. Then press **OK**.
- 3 Press **▼** to select **TEST TONE**. Then press **▶**.
- 4 Press **▲** and **▼** to select **ON** or **OFF**.
- 5 Press **SETUP** to remove the Menu Bar.



Digital Out

If you connected the DVD receiver to other equipment using the Digital connections you will need to change the DVD Player's Digital Output setting. The information in step 4 will help you make your choice.

- 1 Press **SETUP**.
- 2 Press **▼** to select **AUDIO SETUP**. Then press **OK**.
- 3 **DIGITAL OUT** will be selected, press **▶**.
- 4 Press **▲** and **▼** to select **ALL**, **PCM 96K**, **PCM 48K**, or **OFF** then press **OK**.
 - Choose **ALL** if you used the **DIGITAL OUT - COAXIAL** or **OPTICAL** jack on the DVD Receiver to connect to optional audio equipment.
 - Choose **PCM 96K** if you connected the DVD Receiver to optional audio equipment that is capable of processing sampling rates of 96 kHz.
 - Choose **PCM 48K** if you connected the DVD Receiver to optional audio equipment that cannot process sampling rates over 48K. Check the owner's manual of the optional audio equipment.
 - Choose **OFF** if you did not connect the DVD receiver to any digital equipment.
- 5 Press **SETUP** to remove the Menu Bar.

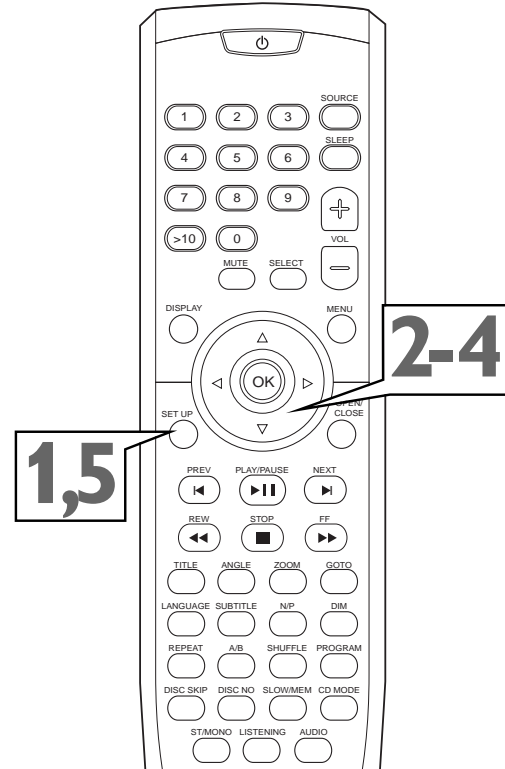
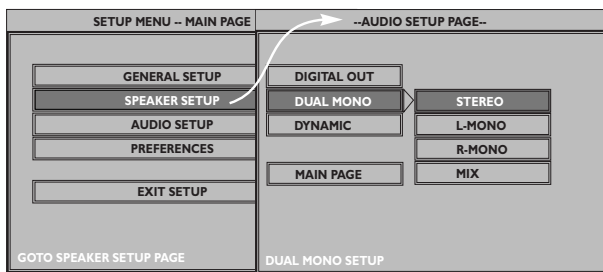


Dual Mono, Dynamic 25

Dual Mono

Select the audio channels when watching a VCD. Often different languages will be encoded on separate audio channels.

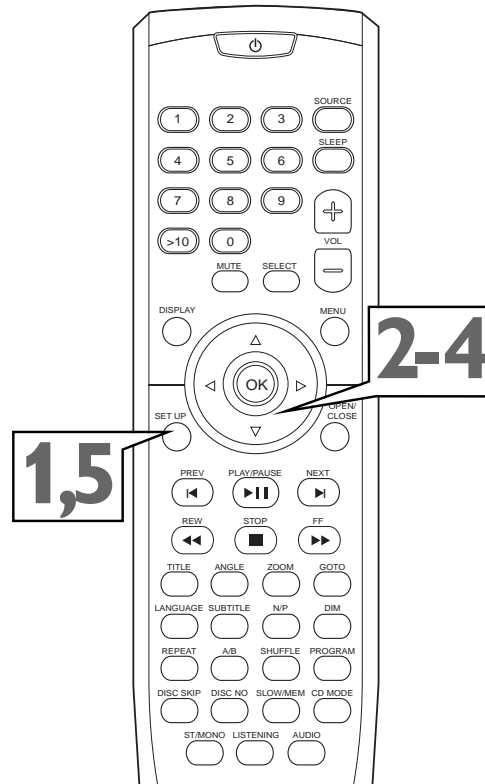
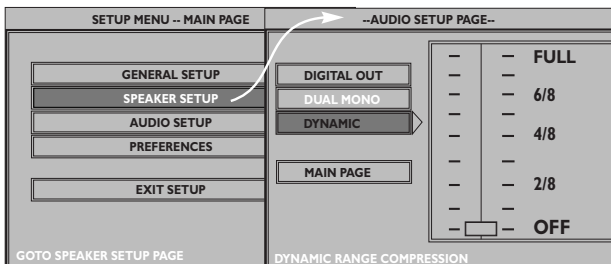
- 1 Press **SETUP**.
- 2 Press **▼** to select **AUDIO SETUP**. Then press **OK**.
- 3 Press **▼** to select **DUAL MONO**. Then Press **▶**.
- 4 Press **▲** and **▼** to select **Stereo**, **L MONO**, **R MONO**, or **MIX**.
- 5 Press **SETUP** to remove the Menu Bar.



Dynamic

Select the degree of audio dynamic compression you want. The greater the compression the smaller the volume range.

- 1 Press **SETUP**.
- 2 Press **▼** to select **AUDIO SETUP**. Then Press **▶**.
- 3 Press **▼** to select **DYNAMIC**. Then press **OK**.
- 4 Press **▲** and **▼** to select **FULL**, **7/8**, **1/8**, or **OFF**.
 - Choose **FULL** to completely compress the dynamic range. The loudest levels are softened and the quietest levels are raised.
 - Choose **7/8** **1/8** to partially compress the volume range.
 - Choose **OFF** to leave the volume range uncompressed.
- 5 Press **SETUP** to remove the Menu Bar.

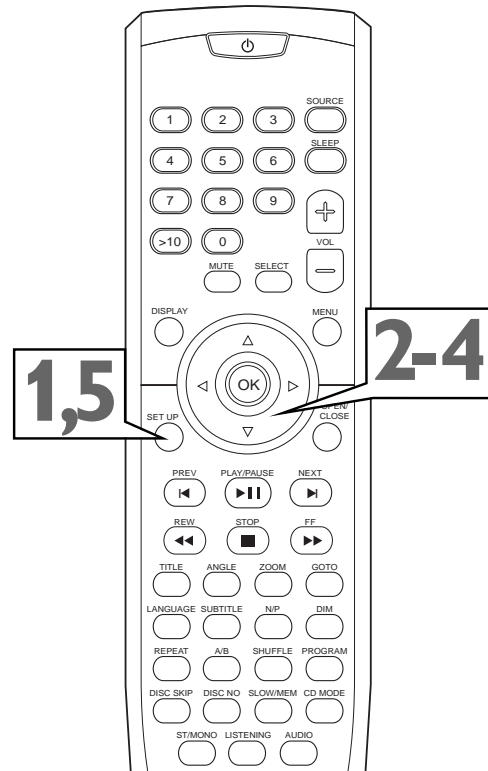
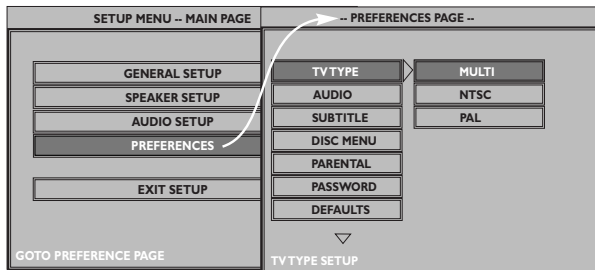


26 TV Type (NTSC, PAL), Language Options

TV Type

Set the DVD to match your TV format.

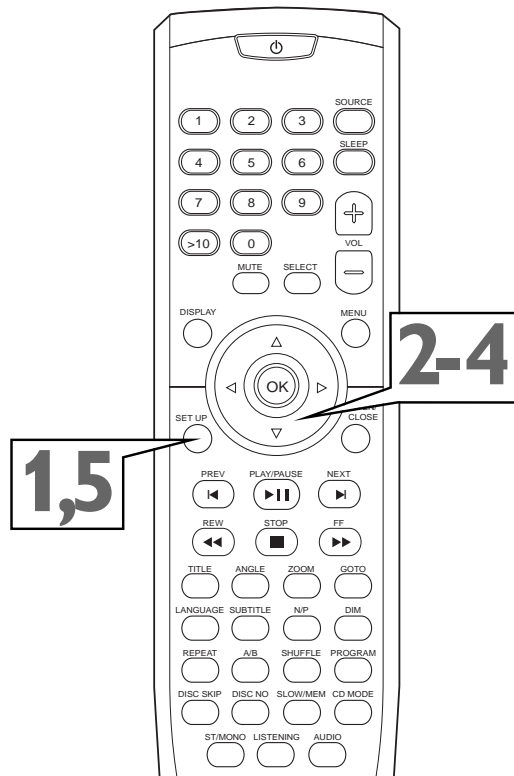
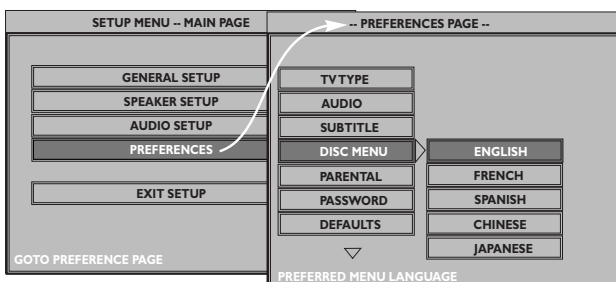
- 1 Press **SETUP**.
- 2 Press **▼** to select Preferences. Then press **OK**.
- 3 **TV TYPE** will be selected, press **OK**.
- 4 Press **▲** or **▼** to select MULTI, NTSC, or PAL.
 - Select MULTI if your TV is compatible with NTSC and PAL and you want the DVD Receiver to automatically select the color system of the current DVD.
 - Select NTSC if you plan to play NTSC DVDs and your TV is NTSC-compatible.
 - Select PAL if your DVDs are recorded in the PAL color system and your TV is PAL-compatible.
- 5 Press **SETUP** to remove the Menu Bar.



Audio, Subtitle, and Disc Menu Language

Some DVDs have multiple languages available for the Audio soundtrack, Subtitles, or the DVD Disc Menu. You may select different languages in the DVD Disc Menu or by following the steps below.

- 1 Press **SETUP**.
- 2 Press **▼** to select PREFERENCES. Then press **OK**.
- 3 Press **▼** to select AUDIO, SUBTITLE, or DISC MENU. Then press **▶**.
- 4 Press **▲** or **▼** to select your language preference. If the language you select is not available on a disc, that disc's original language will be used.
- 5 Press **SETUP** to remove the Menu Bar.



Parental Controls 27

Parental Controls

Some DVD and Video CD makers code the DVD/Video CD so it will only play according to the level you set at the DVD Receiver. The Parental Control level may apply to the complete Disc or to certain scenes on the Disc. Follow the steps below to set the Parental Level at which you want Discs to play.

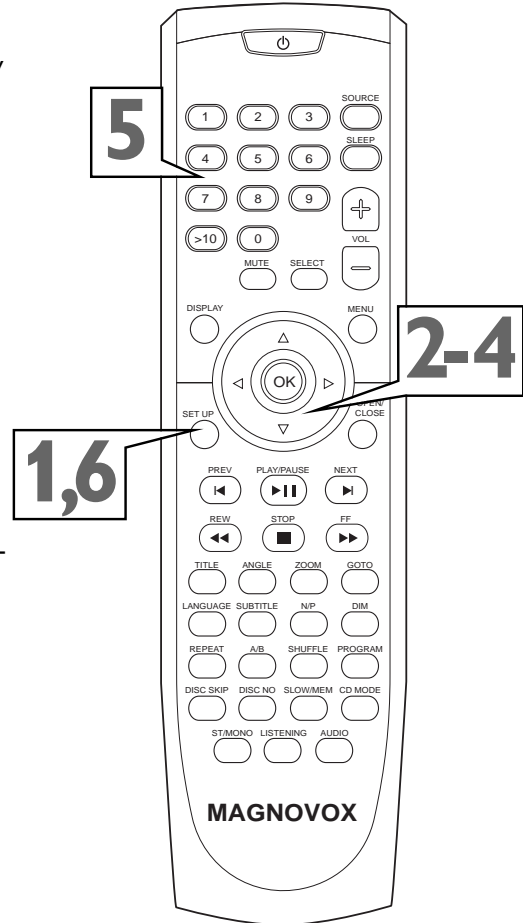
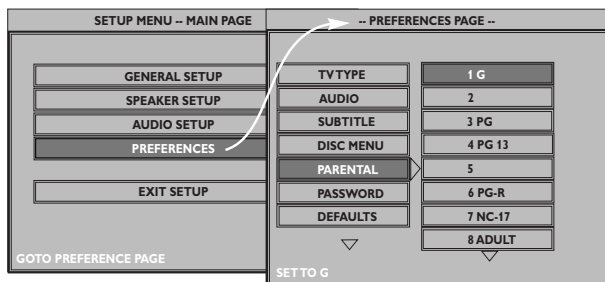
- 1** Press **SETUP**.
- 2** Press **▼** to select **PREFERENCES**. Then press **OK**.
- 3** Press **▼** to select **PARENTAL**. Then press **▶**.
- 4** Press **▲** or **▼** to select your Rating level. Then press **OK**.
- 5** Enter your password and press **OK**. If this is the first time setting the rating level and you have not already set a personal password, use the default password of 3308.

Parental Control Ratings:

The rating numbers compare to standard U.S. movie ratings as follows:

- 1 - G - General Audience; recommended as acceptable for viewers of all ages.
- 3 - PG - Parental Guidance suggested.
- 4 - PG-13 - Material is unsuitable for children under age 13.
- 6 - R - Restricted; recommended that parents restrict children under age 17 from viewing or allow children to view only when supervised by a parent or adult guardian.
- 7 - NC-17 - No children under age 17; not recommended viewing for children under age 17.
- 8 - Adult - Mature material; should be viewed only by adults due to graphic sexual material, violence, or language.

- 6** Press **SETUP** to remove the Menu Screen.

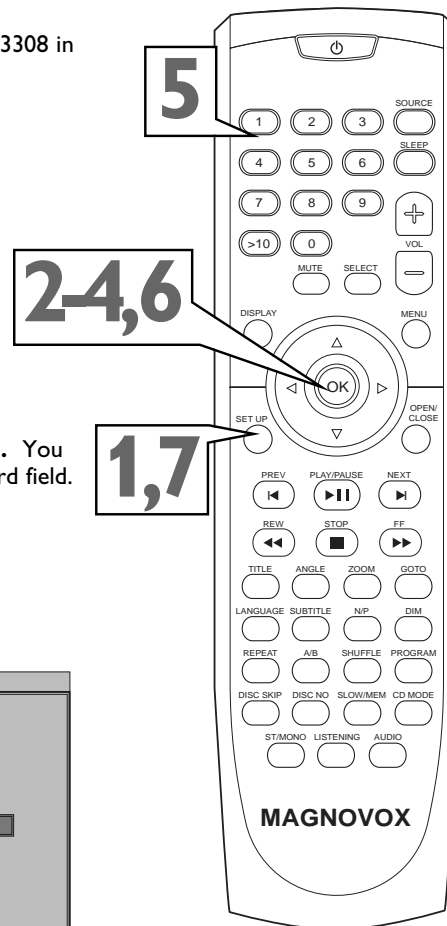
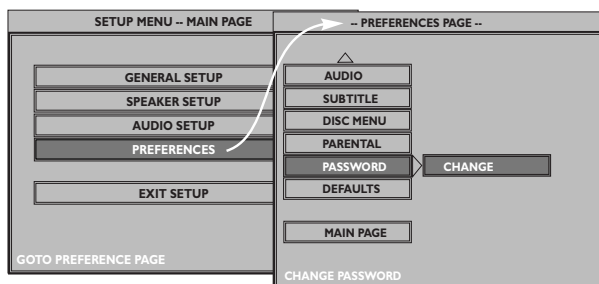


28 Password

Changing or setting the Password

The default password is 3308. If you forget your password, enter 3308 in step four, below, as the old password.

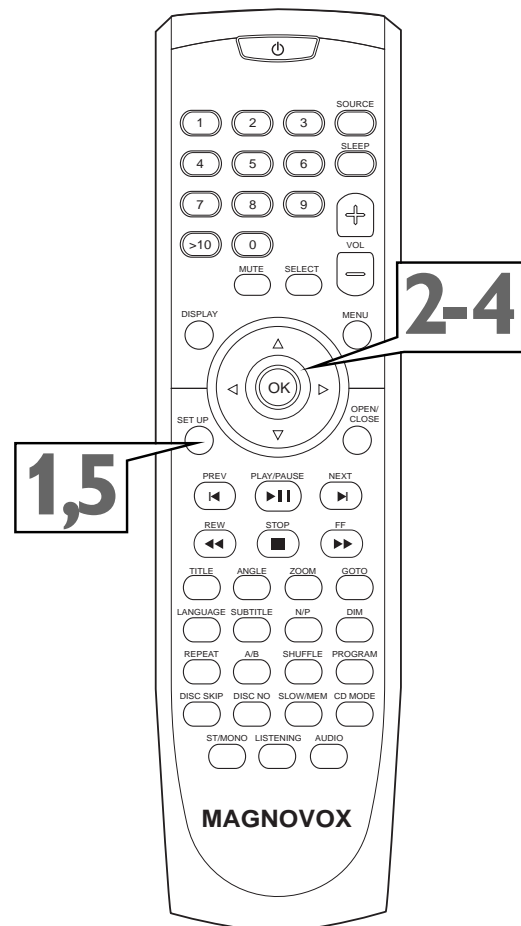
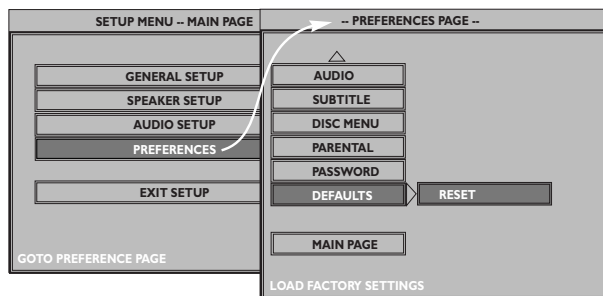
- 1 Press **SETUP**.
- 2 Press **▼** to select **PREFERENCES**. Then press **OK**.
- 3 Press **▼** to select **PASSWORD**. Then press **▶**.
- 4 **CHANGE** will be selected, press **OK**.
- 5 Enter the old password and the new password twice. You do not have to press any buttons to go to the next password field.
- 6 Press **OK** to save the changes.
- 7 Press **SETUP** to remove the Menu Screen.



Defaults 29

To reset the DVD Receiver to its original settings, reset the defaults.

- 1 Press **SETUP**.
- 2 Press **▼** to select **PREFERENCES**. Then press **OK**.
- 3 Press **▼** to select **DEFAULT**. Then press **▶**.
- 4 Press **▲** or **▼** to select **RESET**. Then press **OK**.
- 5 Press **SETUP** to remove the Menu Screen.

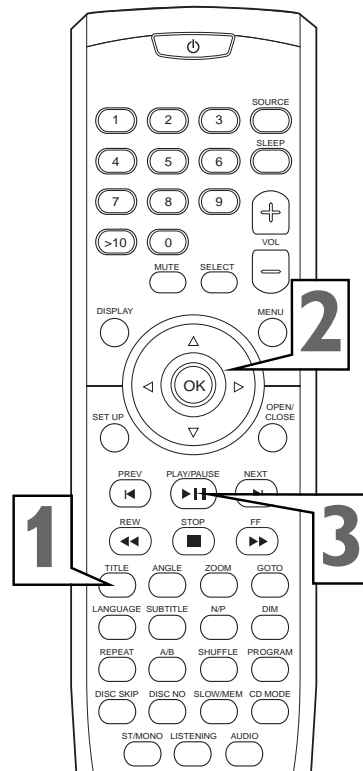


30 Title, Angle

Title

Some DVDs may contain more than one title. If the disc has a title menu you can begin playback from a specified title.


- 1** Press **TITLE** to display the disc's Title Menu, if available.
- 2** Press **▼▲◀▶** or the number buttons (1-9, >10) to select the desired title.
- 3** Press **▶||** or **OK** to begin playback.

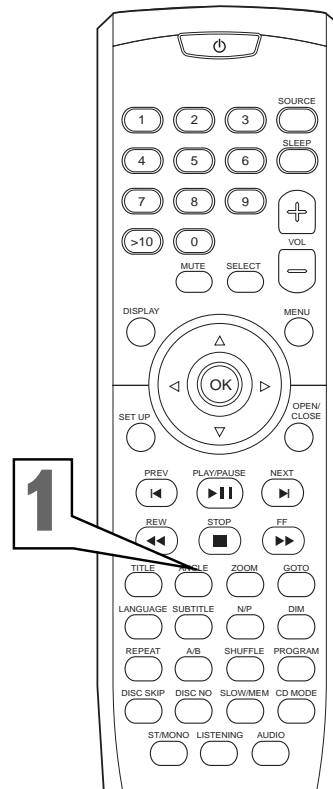


Angle

Some DVDs contain scenes that were recorded at different angles or perspectives. Use the Angle feature in the Menu Bar to view DVD playback from a different angle.

Multiple angles must be available on the DVD. Check the DVD Disc Menu or the DVD case for details and availability of multiple angles.

- 1** Press **ANGLE** to switch between the various angles.
 - If you turn on the **ANGLE MARK** feature in the General Setup menu an icon  will be displayed when multiple angles are available.

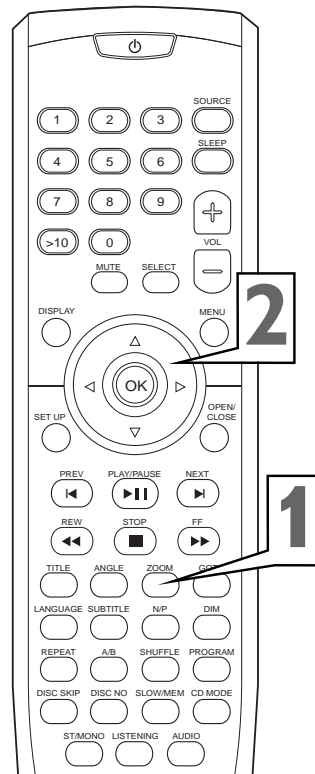


Zoom, Goto 31

Zoom

Zooming allows you to enlarge the DVD or Video CD image and scan through the picture.

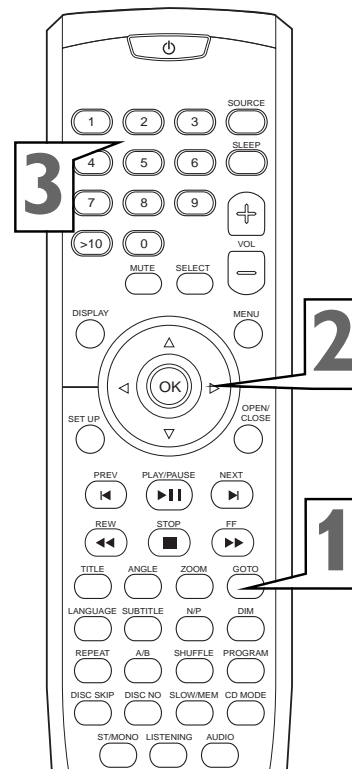
- 1 Press ZOOM** to enlarge the picture. Press the button again to enlarge the picture by zoom x2. Press ZOOM a third time to turn off the zoom.
- 2 Press ▼▲◀▶** to move down, up, left, or right through the enlarged picture.



GoTo

Use the GOTO feature to skip to a desired Title or Chapter.

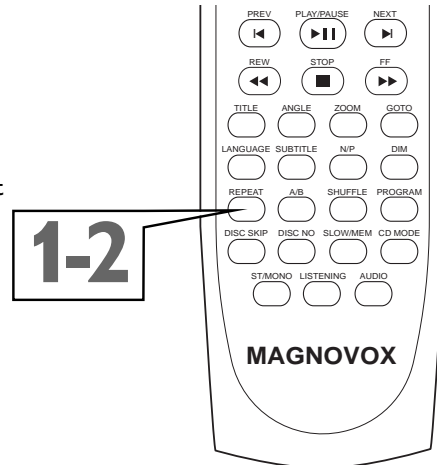
- 1 Press GOTO** to display the current Title, Chapter, and Time.
- 2 Press ◀ or ▶** to select title or chapter.
- 3 Use the number buttons (1-9, >10)** to select the desired title or chapter. Press >10 for each multiple of ten. For example to go to chapter 24 press >10 twice, then 4 ($10+10+4=24$).



32 Repeat, Repeat A-B

Repeat

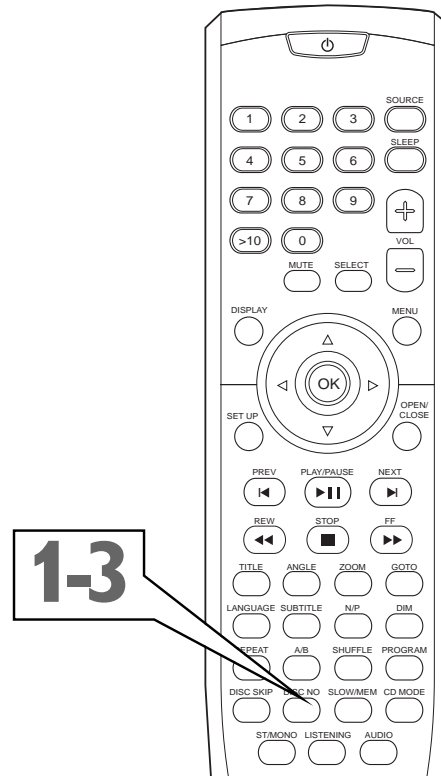
- 1 Press REPEAT** to repeat the current chapter or track. Press again to repeat the entire title (DVD) or disc (VCD or CD). Press REPEAT a third time to repeat all discs (CD mode only).
- 2 Press REPEAT** until REPEAT OFF is displayed to turn off the repeat feature.



Repeat A to B

You can set the DVD Receiver to play only a specific portion of a chapter, title, or track repeatedly.

- 1 Press A/B** to set the starting point. "A to B SET A" displays.
 - 2 Press A/B again to set the ending point.** "A to B SET B" displays and the section repeats continuously.
 - 3 Press A/B to resume normal playback.** "A to B Cancelled" displays.
- A to B can be set across a chapter. On a VCD it must be set within a single track.



CD Features, Programming 33

CD Features

Several features are only available in CD mode.

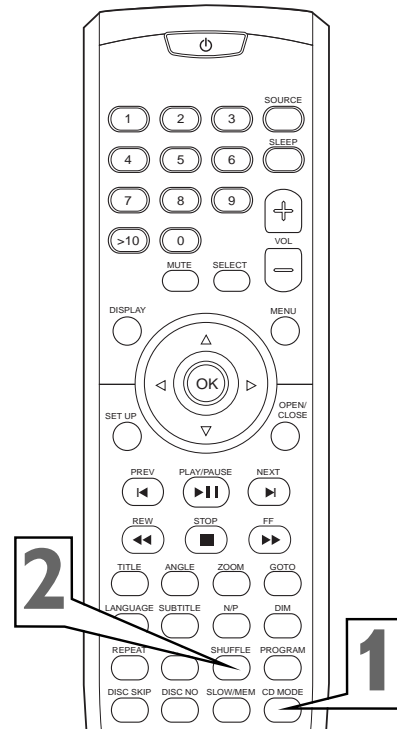
CD Mode

1 Press **CD MODE** to begin playback of all CDs in the disc tray.

Shuffle

You can play all tracks on a single CD in random order. This is only available in CD mode.

2 Press **SHUFFLE** turn the Shuffle feature on and off.
● Playback must be stopped to activate Shuffle.



Programming Favorite Tracks

You can program the system to play up to 99 of your favorite tracks from the CDs in the disc tray.

1 With the receiver in CD mode, press **PROGRAM** to enter the program mode. "P xx:xx" appears on the display.

2 Press **DISC SKIP** to select the disc.

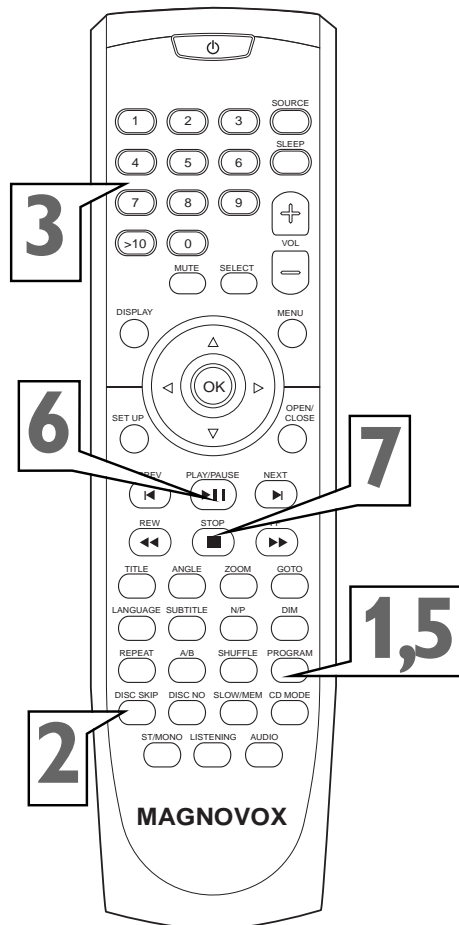
3 Press the number buttons to select the track to program.

4 Repeat steps 2-3 for each track (up to 99) you want to program.

5 Press **PROGRAM** to save the programmed tracks.

6 Press **▶||** to begin playing the saved program.

7 Press **■** to stop playback. Press **■** again to erase the program.

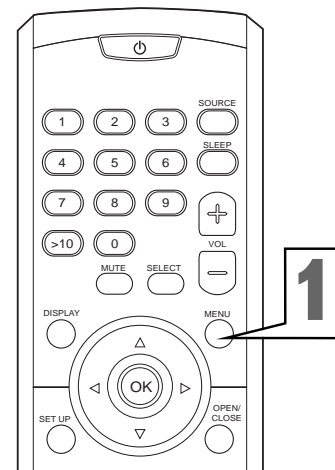


34 Playback Control(PBC), Audio Channels

Playback Control (Video CD only)

Playback Control (PBC) is available on some Video CDs and provides interactive menus through which you can activate features or playback options.

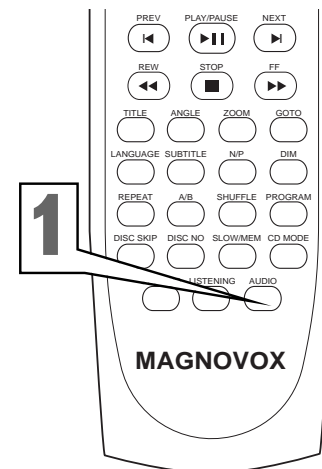
- 1 Press MENU/PBC** with playback stopped to turn PBC ON or OFF.
 - Select PBC OFF-and Video CDs will start playback automatically without the Playback Control interactive menus.
 - Select PBC ON, and the PBC menu (if available) will appear on the TV screen. Use the Number buttons (0-9) or follow the directions in the PBC menu to start playback or select features.



Audio Channel

Some VCDs are coded with different audio tracks on different channels. You can select the desired audio channel.

- 1 Press AUDIO** to select the audio channel: Audio 1, Audio 2, Audio 1 vocal, or Audio 2 vocal.



Helpful Hints

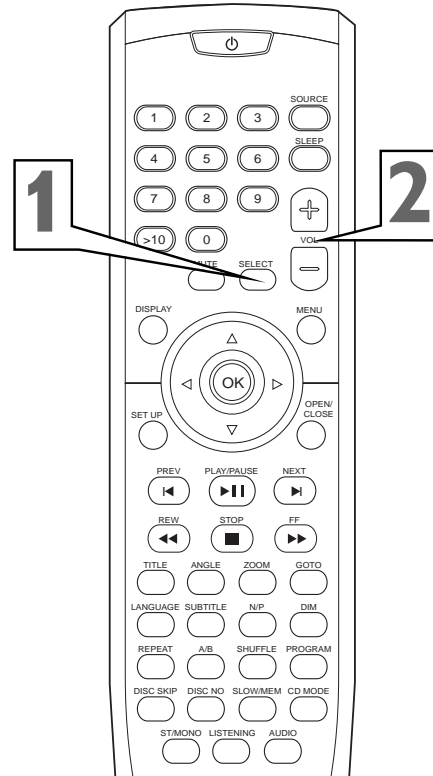
- Time Search and Repeat are not available when PBC is ON.
- You can only play, pause, or repeat MP3 files (Title, Album, or Disc).
- Albums may be referred to as Folders.
- You can play JPEG files on the DVD Receiver. For example, you may have film developed by a photographer who places the pictures on a CD-R for you. If the pictures are in JPEG format, view the images by playing the CD-R on the DVD Receiver.

Sound Options 35

Speaker Tone and Level

You can change the sound production to suit your surround sound needs by altering the tone (bass and treble) and volume for the speakers.

- 1 Press SELECT** to choose the speaker or tone you want to adjust.
 - You can select TREBLE LEVEL, BASS LEVEL, FRONT LEFT, FRONT RIGHT, SURROUND LEFT, SURROUND RIGHT.
- 2 Press VOL + or -** to adjust the level.

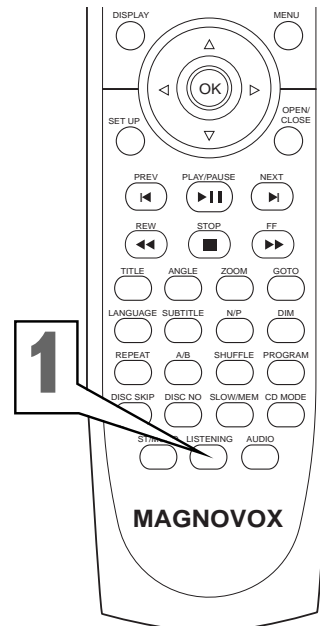


Listening Mode

Select a listening mode which matches your needs

- 1 Press LISTENING** to select the desired listening mode.
 - For DVDs select Dobby Digital, Dolby Pro Logic, or Stereo
 - For VCDs, MP-3 CDs, or normal CDs select Dolby Pro Logic or Stereo.
- Dolby Digital Surround** - Also referred to as AC-3, Dolby 5.1, or MPEG Multichannel - delivers a realistic, dynamic sound similar to theater and cinema. Many DVDs are recorded in Dolby Digital Surround.

All five speakers (front left, front right, center, surround left, and surround right) and the Subwoofer of the DVD Home Cinema System must be connected to the DVD Receiver.
- Dolby Pro Logic Surround** - A specially encoded two-channel analog format that produces sound through four speakers (Front Left, Center, Front Right, and a single/monaural Surround) when using a Dolby Pro Logic Decoder. Dolby Pro Logic Surround is compatible with two-channel (right and left) Stereos, but you will have sound only from two channels (the left and right).
- Stereo** - All sound is reproduced and played through the Front left/right speakers. This enables standard stereo reproduction.



36 MP3 Features

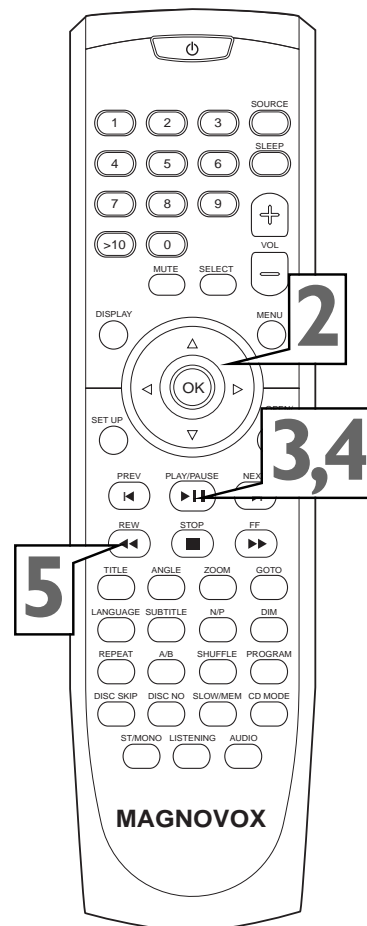
MP3 Features

MP3 is a compression method that makes digital music files up to 10 times smaller without losing significant sound quality. MP3 is common on the Internet, letting you transfer Tracks to your computer and onto a CD Recordable or CD Rewritable.

The DVD Receiver supports these MP3 characteristics. Keep these in mind when you make Discs you plan to play on the DVD Receiver.

- Names of Albums, Artists, etc., with a maximum of 12 characters
- Maximum nested directory of seven levels
- Maximum of 32 Albums
- Sampling frequencies: 32 kHz, 44.1 kHz, 48 kHz
- Bit-rates (recording speeds): 32, 64, 96, 128, 192, and 256 kbps and supported VBR bit rate.

- 1 After you insert a Disc with MP3 files, press MENU/PBC.**
The Album menu or list will appear on the TV screen. It may take the DVD Receiver up to 30 seconds to recognize the Disc due to the amount of songs on the Disc.
- 2 Press ▼ ▲ ◀ ▶ to select an Album or Track for playback.**
You also can use the Number buttons to select a Track directly.
- 3 Press PLAY/PAUSE ►|| or OK to confirm your selection and begin playback.**
- 4 Or, if an MP3 menu or file list does not appear, you can play the currently selected Track or Album by pressing PLAY/PAUSE ►||.**
- 5 Press ◀◀ or ▶▶ to select the previous or next Track during playback.** The current Track number will appear on the DVD Receiver's display panel.





Helpful Hints

- You can only play, pause, or repeat MP3 files (Title, Album, or Disc).
- Albums may be referred to as Folders.
- You can play JPEG files on the DVD Receiver. For example, you may have film developed by a photographer who places the pictures on a CD-R for you. If the pictures are in JPEG format, view the images by playing the CD-R on the DVD Receiver.

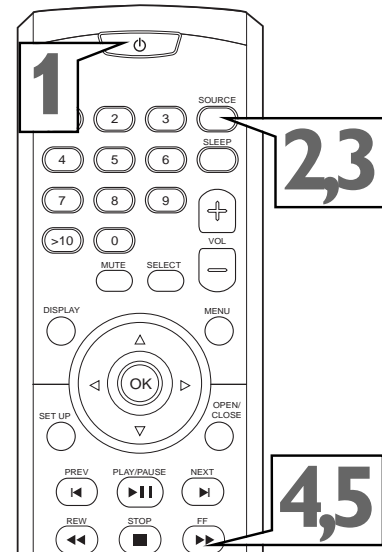
Tuner Features 37

Tuning Radio Stations

- 1** Press **Power**  (or **STANDBY-ON**  on the front of the DVD Receiver) to turn on the last selected sound source.
- 2** Press **TUNER•BAND** on the DVD Receiver (or press the **SOURCE** dial on the remote) to select **TUNER** mode.
- 3** Press **TUNER•BAND** again to select **FM** or **AM**.
- 4** Press and hold **◀◀** or **▶▶** until the frequency indicator (station number) starts to change, then release. The next radio station will tune automatically.



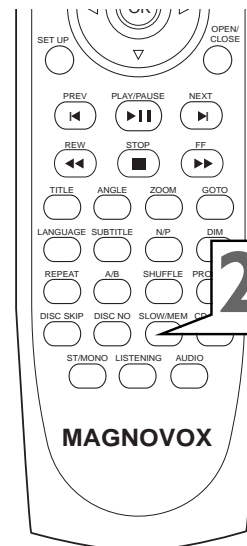
- 5** To tune to a weak station, press **◀◀** or **▶▶** briefly and repeatedly until the best possible reception is found.



Programming Radio Stations

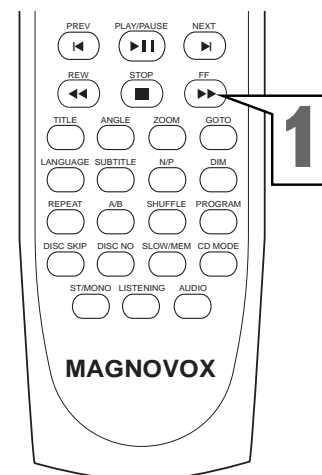
You can preset up to 40 stations in memory.

- 1** Tune to the desired radio station as detailed above.
- 2** Press **SLOW/MEM** on the remote. "PROG" will appear on the display panel.
- 3** Within five seconds, press the **Number buttons (0-9)** to select a preset number.
 - If "Program" disappears from the display panel before you select a preset number, repeat steps 2-3.
- 4** Within five seconds, press **SLOW/MEM** to store the radio station. Repeat steps 1-4 to store other radio stations.
 - If you try to program more than 40 preset radio stations, "FULL" will appear on the display panel.



Selecting Preset Radio Stations

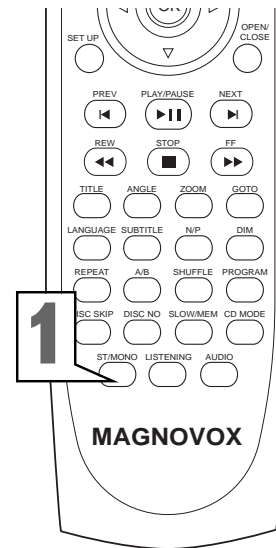
- 1** In **Tuner** mode, press **◀◀** or **▶▶** or use the **Number buttons** to select a preset station number. The preset station number, radio frequency, and FM or AM will appear on the display panel.



38 FM Reception, Sleep Timer

FM Reception

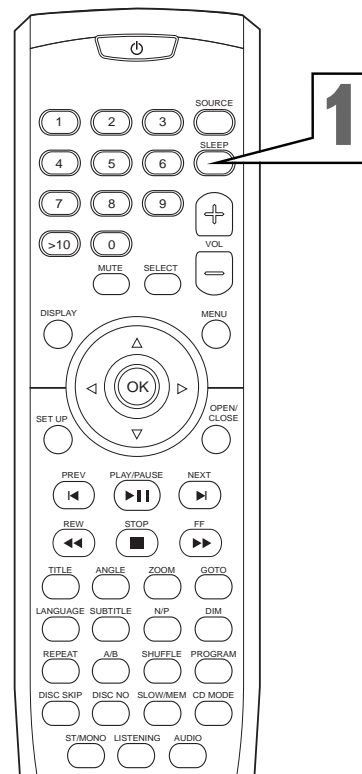
- 1 Press **ST/MONO** to switch between FM Stereo and FM Mono reception. If FM Stereo has background static or poor reception, try FM Mono for a clearer reception.



Sleep Timer

The Sleep Timer turns the DVD Home Cinema System to Standby mode (off) at a preselected time.

- 1 Press **SLEEP** repeatedly to select the amount of time after which you want the DVD Receiver to turn off. You may choose (in minutes): 120 to 10 minutes in ten minute increments.
 - **To check the time** remaining for the Sleep Timer (after you have set it), press SLEEP once.
 - **To change the Sleep Timer**, press SLEEP again while the Sleep Timer minutes appear. The next Sleep Timer option will appear on the display panel.
 - **To cancel the Sleep Timer**, press SLEEP repeatedly to choose OFF. Or, press STANDBY-ON \odot to turn off the DVD Receiver.




WARNING!

Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

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.

No power

- Press STANDBY-ON  on the front of the DVD Receiver to turn on the power.
- Make sure you connected the DVD Receiver's power cord to an AC power outlet.
- Make sure the AC outlet has power by trying another appliance in the same outlet.

No picture

- Make sure the TV power is on.
- Check the video cables. Make sure the cable(s) are fastened securely to the DVD Receiver and TV.
- Set your TV to the correct Video In channel. These channels are usually near channel 00. Or, you may have a button on the TV remote control that selects an Auxiliary or A/V IN channel. See your TV owner's manual for details. Or, go to your lowest TV channel and change channels down until you see the DVD screen on the TV.
- You only need one video connection between the DVD Receiver and the TV.
- Adjust VIDEO OUT if you used S-Video or Component Video. *Details are on page 22.*
- Press the correct source button (TV/AV, DISC, TUNER, or AUX) to choose what you want to watch.


Distorted picture

- Check the Disc for fingerprints. Clean the Disc with a soft cloth, wiping from the center to the edge in a straight line.
- Sometimes a small amount of picture distortion may appear. This is not a malfunction.

The picture is distorted, the picture rolls, or the picture is only black and white.

- TVs have a color system standard, usually NTSC in the United States. If the Disc's or DVD Receiver's color system is different than your TV's color system, the picture may be distorted or colorless. Adjust the TV SYSTEM setting at the DVD Receiver. *Details are on page 26.*
- Check the VIDEO OUT setting. *Details are on page 22.*
If you connected the DVD Receiver to a TV using S-Video cable (as described on page 13), set VIDEO OUT to S-VIDEO.
If you connected the DVD Receiver to a TV using Component video cable (red, green, and blue as described on page 11), set VIDEO OUT to PR PB Y.

The sound is distorted or there is no sound.

- Make sure you did not connect any cables from the DVD Receiver to a Stereo's "PHONO IN" jack.
- Make sure you did not connect the DIGITAL OUT - COAXIAL or OPTICAL jack on the DVD Receiver to an analog jack on the Stereo. (Analog audio jacks are usually labeled as such and are usually red and white.)
- Check the speaker connections. Make sure cables are connected firmly to all equipment. *Details are on page 14.*
- Choose the correct Audio/Video In or Auxiliary channel at your TV. See your TV's manual for details. Or, change channels at the TV until you hear sound from the Disc that is in the DVD Receiver or until you see the DVD screen on your TV.
- Choose a different Audio setting. *Details are on pages 18, 29, and 34.* Check the Audio setting of a DVD in the DVD Disc Menu, if available, and adjust as necessary.
- Choose the correct sound source at the DVD Receiver. Press TV/AV, DISC, TUNER, or AUX on the DVD Receiver's remote control to choose the equipment that you want to hear through the DVD Receiver.
- Check the Listening setting. Make sure it is compatible/available with the current Disc. *Details are on page 35.*
- Adjust the volume. *Details are on page 35.*
- Replace the speaker cables.
- Check the speaker settings. *Details are on page 25.*
- Sound is mute during slow motion, searching, or paused Disc playback. Press PLAY/PAUSE  to resume normal playback and restore the sound.

Disc will not play.

- Make sure the Disc label is facing up. If you are playing a two-sided Disc, make sure the label of the side you want to play is facing up when you place the Disc in the DVD Receiver's disc tray. *Details are on page 15.*
- Check the Parental Controls. *Details are on pages 27-28.*
- Check the Region Code of the DVD. The DVD must be coded for All regions or Region 1 in order to play on this DVD Receiver. *Details are on page 5.*
- See if the Disc is defective by trying another Disc. Make sure the Disc is not scratched or warped. Carefully clean the Disc.
- Check the color system of the DVD. It must be recorded in NTSC or PAL. Adjust the TV SYSTEM setting at the DVD Receiver appropriately. *Details are on page 26.*
- Press SYSTEM MENU to remove the System Menu. Then try playing the Disc again.
- Moisture may have condensed inside the DVD Receiver. Remove the Disc and leave the DVD Receiver power on for about an hour before trying to play Discs again. Moisture may condense inside the DVD Receiver if you move it suddenly from a warm place to a cold environment, or vice versa.

An Audio CD will not play.

- Some Audio CDs available on the market are copy protected. These discs will not play on this DVD Receiver. See your retailer for options regarding non-protected Audio CDs.

The DVD Receiver does not respond to the remote control.

- Aim the remote control directly at the remote sensor on the front of the DVD Receiver, not your TV.
- Remove any obstacles between the DVD Receiver and the remote. Move closer to the DVD Receiver and try again.

40 Helpful Hints (cont'd), Glossary

- Inspect or replace the batteries in the remote control.
- Use the SOURCE buttons (TV/AV, DISC, TUNER, AUX) to place the remote in the right mode. For example, when using the remote to start Disc playback, press DISC first.

You cannot activate some features, such as Angles, Subtitles, or multi-language Audio.

- The feature may not be available on the Disc. Check the Disc case to see if the Disc has the feature. If the Disc does not have the feature, the DVD Receiver cannot create the feature. This is not a malfunction of the DVD Receiver.

The DVD Receiver does not work.

- Disconnect the power cord from the power outlet for a few minutes. Reconnect the power cord and try to operate the DVD Receiver again as usual.

There is no sound from the Center or Rear/Surround speakers.

- Press CENTER +/- or REAR +/- on the remote control to adjust the volume level.
- Make sure the Center and Rear/Surround speakers are connected correctly. *Details are on page 14.*
- Choose a correct Surround Sound setting. Surround Sound must be available on the current Disc or broadcast. *Details are on page 35.*

Radio broadcasts are noisy or have considerable static.

- Tune to the correct frequency. *Details are on page 37.*
- Connect the antennas. *Details are on page 10.*
- Route Cable TV/RF/AC-3 and digital cables away from the antennas and speaker wires.
- Fully extend the FM wire antenna and position it for the best reception.
- Connect an outdoor FM or AM antenna.
- Turn off other equipment that is near the DVD Receiver. It may be causing interference. Move other equipment away from the DVD Receiver. Move the DVD Receiver's antennas away from the other equipment.

The display panel is dark.

- Press DIM repeatedly until you can see the information on the display panel.

You hear a low hum or buzz sound.

- Place the DVD Receiver as far as possible from electric devices that may cause interference.

Bass response is low.

- Check the polarity (+/- wires and jacks) of all the Speakers.

Glossary

Analog: Sound that has not been turned into numbers.

Analog sound varies, while digital sound has specific numerical values. Analog sound is available when you use the red and white audio jacks on your equipment. These jacks send audio through two channels, the left and right.

AUDIO OUT Jacks: Jacks on the back of the DVD Receiver that send audio to another system (TV, Stereo, etc.).

Bit Rate: The amount of data used to hold a given length of music; measured in kilobits per seconds, or kbps. Or, the speed at which you record. Generally, the higher the bit rate, or the higher the recording speed, the better the sound quality. However, higher bit rates use more space on a Disc. For example, an MP3 music file recorded at 32 kbps will record slowly, use the least Disc space, and have the poorest sound quality. But, an MP3 music file recorded at 96 kbps will record quicker, use more Disc space, and have significantly better sound quality.

Coaxial jack: Sends digital audio to a Stereo, allowing you to adjust the volume at the Stereo. The Stereo must have a coaxial in jack. This connection provides the 5.1 channel surround sound as heard in movie theaters.

Component Video Out Jacks: Jacks on the back of the DVD Receiver that send high-quality video to a TV that has Component Video In jacks.

Digital: Sound that has been converted into numerical values. Digital sound is available when you use the DIGITAL AUDIO OUT COAXIAL or OPTICAL jacks. These jacks send audio through multiple channels, instead of just two channels as analog does.

Dolby Digital: A surround sound system that provides 5.1 channel sound as used in movie theaters.

DTS: Digital Theater Systems. This is a surround sound system, but it is different from Dolby Digital. The formats were developed by different companies.

DVD: Digital Video Disc.

Letterbox: A TV aspect ratio setting (4:3). Displays the video in full-width, with black bars at the top and bottom of the TV screen. This format is similar to seeing a movie in a theater. If the Disc does not include a letterbox format, selecting Letterbox may have no effect. (For example, some DVDs are two-sided, with one side playing in Letterbox and the other side playing in a normal format.)

OPTICAL Jack: Converts electrical signals into optical signals before sending the audio to the Stereo. Optical audio is not prone to external electrical influences and has less noise, which reduces adverse effects on external equipment. Be sure to keep the protective cap on the jack when the jack is not in use. This keeps dust out of the jack.

Pan & Scan: A TV aspect ratio setting (4:3). Displays the video with full-height picture, with one or both sides of the picture trimmed. Some movie companies refer to this as "reformatting the picture to fit your TV screen."

PR PB Y: See *Component Video Out Jacks*.

S-Video: Produces a clear picture by sending separate signals for the luminance and the color. You can use S-Video only if your TV has an S-Video In jack.

VIDEO OUT Jack: Jack on the back of the DVD Receiver that sends video to a TV.

Widescreen: A TV aspect ratio setting (16:9). Displays the video appropriately when you connect the DVD Receiver to a widescreen TV.

Specifications 41

AMPLIFIER SECTION

Output power Stereo (DIN)	.2 x 50 W
Output power Surround (1 kHz)	.20 W RMS/channel
Total Harmonic Distortion	.10% at rated power (1 kHz)
Frequency Response	.180 Hz – 14 kHz / ± 1 dB
Signal-to-Noise Ratio	> 65 dB (CCIR)
Input Sensitivity	.400 mV

TUNER SECTION

Tuning Range	.FM 87.5–108MHz (100kHz steps)
	.AM 530–1700kHz (10kHz steps)
26 dB Quieting Sensitivity	.FM 20 dB/AM 3162 μ V/m
Image Rejection Ratio	.FM 25 dB/AM 28 dB
IF Rejection Ratio	.FM 60 dB/AM 24 dB
Signal-to-Noise Ratio	.FM 60 dB/AM 40 dB
AM Suppression Ratio	.FM 30 dB
Harmonic Distortion	.FM Mono 3%/FM Stereo 3%/AM 5%
Frequency Response	.FM 180Hz–10kHz / ± 6 dB
Stereo Separation	.FM 26 dB (1 kHz)
Stereo Threshold	.FM 23.5 dB

DVD SECTION

Laser Type	Semiconductor
Disc Diameter	.12cm/8cm
Video Decoding	.MPEG-2
Video DAC	.10 Bits
Color System	.PAL/NTSC
Video Format	.4:3/16:9
Video S/N	.56 dB (minimum)
Composite Video Output	.1.0 Vp-p, 75 Ω
S-Video Output	.Y - 1.0 Vp-p, 75 Ω
	.C - 0.286 Vp-p, 75 Ω
Audio DAC	.24 bits / 96 kHz
Frequency Response	.4 Hz – 20 kHz (44.1 kHz)
	.4 Hz – 22 kHz (48 kHz)
	.4 Hz – 44 kHz (96 kHz)
Digital Output	.SPDIF Coaxial & Optical

LASER

Type	Semiconductor laser GaAlAs
Wavelength	.650 nm
Output Power	.7 mW
Beam Divergence	.60 degree

MISCELLANEOUS

Power Supply Rating	.120 V / 60 Hz
Power Consumption	.120 W
Dimensions (w x h x d)	.435 mm x 78 mm x 360 mm
	.17.1 x 3.1 x 14.2 (inches)
Weight	.7.1 kg/15.62 lbs.

REMOTE CONTROL

Effective Range	> Eight Meters
Number of Buttons	.45
Batteries (1.5V)	.2 AA

SPEAKERS

Front speakers/ Rear (surround) speaker

System	.2-way satellite
Impedance	.8 Ω
Speaker drivers	.3" woofer, piezo
Dimensions (w x h x d)	.94 mm x 155 mm x 88 mm
	.3.7 x 6.1 x 3.5 (inches)
Weight	.0.45 kg each or 0.99 pounds each

Center Speaker

System	.2-way satellite
Impedance	.8 Ω
Speaker drivers	.2 x 3" woofer, piezo
Dimensions (w x h x d)	.250 mm x 94 mm x 88 mm
	.9.84 x 3.70 x 3.46 (inches)
Weight	.0.92 kg/2.02 lbs.

SUBWOOFER

Subwoofer (not magnetically shielded)	.6.5"
Output power	.75 W (4 Ω , DIN)
THD	.10% at 80 Hz
Reproduction frequency response	.30 Hz – 150 Hz
Phase switch	.0°, 180°
Input sensitivity (Subwoofer In)	.200 mVrms
AC power	.120 V / 60 Hz
Power Consumption	.53W (at 1/8 rated power)
Dimensions (w x h x d)	.130 mm x 337 mm x 375 mm
	.5.1 x 13.3 x 14.8 (inches)
Weight	.7.8 kg/17.2 lbs.

Specifications are subject to change without notice.

5 Disc Direct Play	8	Glossary	40	S-Video	9, 13, 22, 40
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🎧 (Headphones)	8	Helpful Hints	39	Satellite Box	16
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Analog	40	Letterbox	40	Searching	18
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Angle Mark	21	Maintenance and Cleaning	5	Setup Button	7
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Audio Out Jacks	9, 40	Next ▶ Button	7, 8	Speaker Settings	35
Bit Rate	40	Number (0-9) Buttons	6	Speaker Delay	23
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CR CB Y	22	Parental Controls	28	Subtitle Language	26
Defaults	29	Password	7	Subwoofer	14
Digital	40	Play/Pause 38 Button	6	System Setup	19
Digital Out	9, 24	Playable Discs	5	Table of Contents	3
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Disc Menu Language	26	Play•Pause ▶ Button	8	Title Button	6, 30
Disc Menus	17	Power y Button	6, 8	Tuner	37
Disc No. Button	7	PR PB Y	40	Tuner•Band Button	8
Disc Tray	8	Pr/Cr Pb/Cb Y Component Video	2	TV Display	20
Disc Skip Button	6	Preset Radio Stations	37	TV Type	26
Display Button	7	PREV ◀◀ Button	6	TV•AUX Button	8
Display Screen	8	Prev ◀ Button	7, 8	VCR	16
Dolby Digital	40	Program Button	7	Video Out	22
DTS	40	Programming Tracks	33	Video Out Jack	9, 40
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FF ▶▶ Button	7	Safety Information	4	Woofer Line Out Jack	9
FM/AM Antenna	9	Satellite Box	16	Zoom	6, 31

LIMITED WARRANTY

MAGNAVOX AUDIO SYSTEM

One Year Free Exchange

This product must be carried in for an exchange.

WHO IS COVERED?

You must have proof of purchase to exchange the product. A sales receipt or other document showing that you purchased the product is considered proof of purchase. Attach it to this owner's manual and keep both nearby.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. For one year thereafter, a defective or inoperative product will be replaced with a new, renewed, or comparable product at no charge to you. A replacement product is covered only for the original warranty period. When the warranty on the original product expires, the warranty on the replacement product also expires.

WHAT IS EXCLUDED?

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 misuse, accident, unauthorized repair or other cause not within the control of Magnavox.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- 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.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product that is used for commercial or institutional purposes.

WHERE IS EXCHANGE AVAILABLE?

You may exchange the product in all countries where the product is officially distributed by Magnavox. In countries where Magnavox does not distribute the product, the local Magnavox service organization will attempt to provide a replacement product (although there may be a delay if the appropriate product is not readily available).

BEFORE REQUESTING EXCHANGE...

Please check your owner's manual before requesting an exchange. Adjustments of the controls discussed there may save you a trip.

EXCHANGING A PRODUCT IN U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS...

Contact your dealer to arrange an exchange. Or, ship the product, insured and freight prepaid, and with proof of purchase enclosed, to the address listed below.

Small Product Service Center
Magnavox
1001 Snapps Ferry Road
Plant 2, Building 6
Greeneville, TN 37743

(In U.S.A., Puerto Rico, and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

EXCHANGING A PRODUCT IN CANADA...

Please contact Magnavox at:

1-800-661-6162 (French Speaking)

1-800-705-2000 (English Speaking or Spanish Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Magnavox is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record below the model and serial numbers found on the product. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

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

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