

RCA

DVD Player User's Guide

Changing entertainment. Again.



DRC220N

WARNING
RISK OF ELECTRIC SHOCK.
DO NOT OPEN.



This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or



This symbol indicates important instructions accompanying the product

To reduce risk of electrical shock, do not remove cover or back (no user serviceable parts inside). Refer servicing to qualified personnel.

WARNING To reduce the risk of fire or shock hazard, do not expose this DVD player to rain or moisture. No objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION
THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

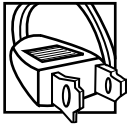
CAUTION
FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

FCC INFORMATION

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.

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

This class B digital apparatus meets all requirements of the Canadian Interference--Causing Equipment Regulations.



Refer to the identification/rating label located on the back panel of your product for its proper operating voltage.

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

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne

Product Registration: Please fill out the product registration card packed with this product, and return it. immediately
Returning this card enables us to contact you if necessary.

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers in case you need them. The numbers are located on the back of the player.

Model number: DRC220N Serial Number: _____ Purchase date: _____

Dealer address and phone: _____

Note:
This device is protected by U.S. patent numbers 4,631,603 and 4,577,216 and 4,819,098 and other intellectual property rights. The use of Macrovision's copy protection technology in the device must be authorized by Macrovision and is intended for home and other limited pay-per-view uses only, unless otherwise authorized in writing by Macrovision. Reverse engineering or disassembly is prohibited

This DVD player is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this DVD player, this DVD player cannot play the disc. The Region number for this DVD player is Region No 1.

**CLASS 1
LASER
PRODUCT**

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Chapter 1: Setup and Connections

Things to consider before you connect

Protect components from overheating

- Don't block ventilation holes on any of the components. Arrange the components so that air can circulate freely.
- Don't stack components.
- When you place components in a stand, make sure you allow adequate ventilation.
- If you connect an audio receiver or amplifier, place it on the top shelf.

Position cables properly to avoid audio interference

- Insert each cable firmly into the designated jack.
- If you place components above the TV, route all cables down the side of the back of the TV instead of straight down the middle of the back of the TV.
- If your antenna uses 300-ohm twin lead cables, do not coil the cables. Also, keep the twin lead cables away from audio/video cables.

Connection Pictures

Audio/video cables are usually bundled together. For better visibility, the connection pictures in this book show each cable separately (audio left, audio right, and video). Graphics contained within this publication are for representation only.



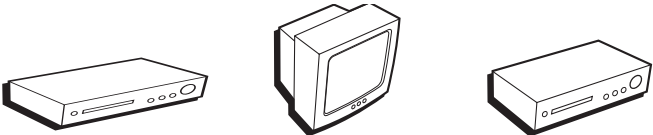
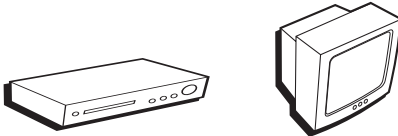
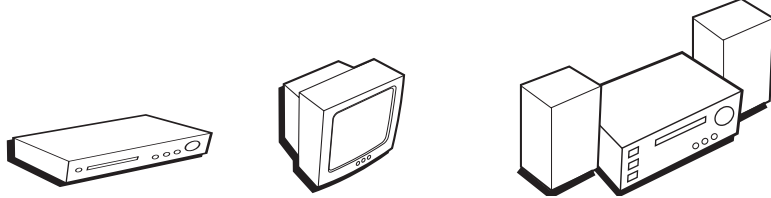
Some discs may not be compatible due to laser pickup and disc design.

Types of discs your DVD player can play

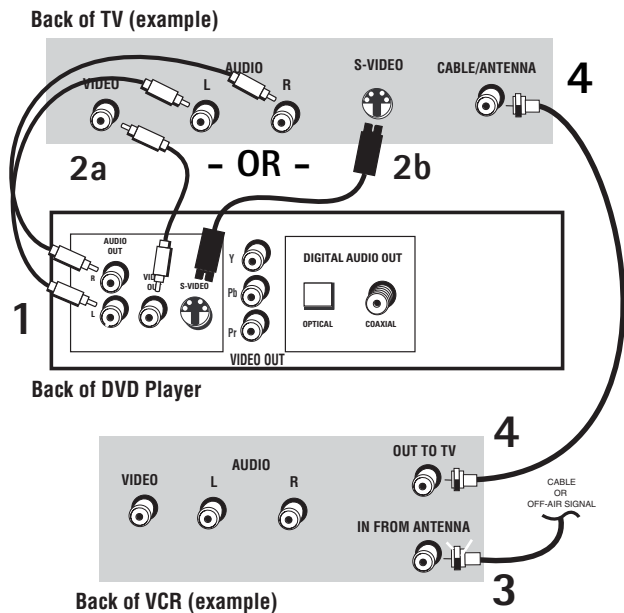
- DVD discs – contain picture and sound (DVD-R, DVD+RW are compatible with this player) .
- CDs (CD-R, CD-RW) – Audio CDs contain musical or sound content only. MP3 discs are CDs that contain MP3 files. This player is also capable of playing CDs that contain JPEG files.
- Video CD discs – Like DVD video discs, Video CDs contain picture and sound content. The difference is the amount of information that can be stored on the disc. VCDs typically have lower picture and sound quality than DVD discs.

Choose Your Connection

There are several ways to connect your DVD player. Please use the following chart to determine which connection is best for you. Turn to the appropriate page, and connect your DVD Player.

Components	Cables Needed	Connection Title	Go to...
 <p>DVD TV VCR</p>	<ul style="list-style-type: none"> • Coaxial • Audio/video • S-Video (optional) 	DVD + TV + VCR	4
 <p>DVD TV</p>	<ul style="list-style-type: none"> • Coaxial • Audio/video • S-Video (optional) 	DVD + TV	5
 <p>DVD TV Audio Receiver</p>	<ul style="list-style-type: none"> • Coaxial • Audio/video • S-Video (optional) 	DVD + TV + Audio Receiver	6

Chapter 1: Setup and Connections



Connection: DVD + TV + VCR

1. Connect the audio cables to the AUDIO OUT L (left – white) and R (right – red) jacks on the back of your DVD Player, and to the corresponding Audio Input jacks on your TV (sometimes labeled AUDIO IN L and R).

2. Connect the video cable.

A. Basic video connection – Connect the video cable (yellow) to the VIDEO OUT jack on the back of your DVD Player, and to the Video Input jack on your TV (sometimes labeled VIDEO IN).

– OR –

B. S-Video (optional) – If your TV has an S-Video jack, connect the S-Video cable (not provided) to an S-VIDEO OUT jack on the back of your DVD Player and to the S-VIDEO jack on your TV.

Note: If your TV has component video (Y, Pb, Pr) jacks, use video-grade cables (not provided) to connect the TV to the DVD player (Y to Y, Pb to Pb, etc.). It is essential to match the color coded connectors with a compatible TV.

3. Connect the antenna or cable to the Antenna Input jack on the VCR (sometimes labeled IN FROM ANTENNA).

4. Connect a coaxial cable to the Antenna Output jack on the VCR (OUT TO TV) and to the Antenna Input jack (CABLE/ANTENNA) on the TV.

5. Insert the AC power cord into an AC outlet.

The back of your TV and VCR might look different than the ones pictured here.

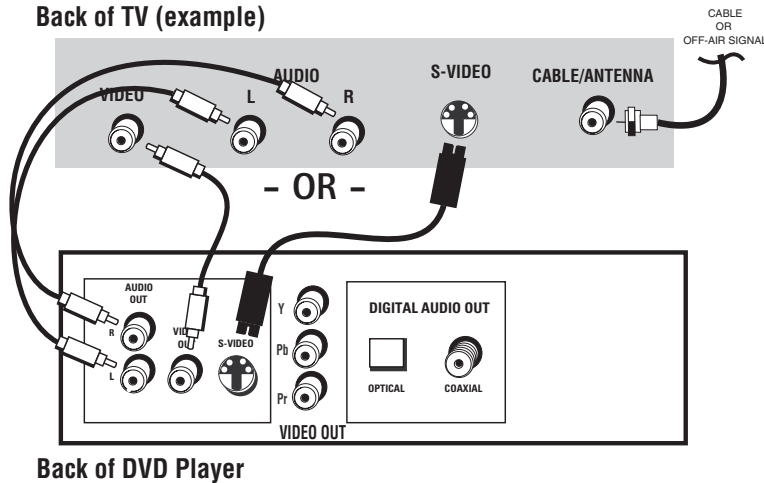
Details about the different kinds of cables used to connect your DVD player are on page 56.

Note: Don't connect the DVD player to the VCR, or through the VCR. Doing so could negatively affect the picture quality and/or disable the DVD player.

Go to page 8

Chapter 1: Setup and Connections

Connection: DVD + TV



The back of your TV and VCR might look different than the ones pictured here.

Details about the different kinds of cables used to connect your DVD player are on page 56.

1. Connect the audio cables to the AUDIO OUT L (left – white) and R (right – red) jacks on the back of your DVD Player, and to the corresponding Audio Input jacks on your TV (sometimes labeled AUDIO IN L and R).
2. Connect the video cable.
 - A. Basic video connection – Connect the video cable (yellow) to the VIDEO OUT jack on the back of your DVD Player, and to the Video Input jack on your TV (sometimes labeled VIDEO IN).
 - OR –
 - B. S-Video (optional) – If your TV has an S-Video jack, connect an S-Video cable (not provided) to the S-VIDEO OUT jack on the back of your DVD Player and to the S-VIDEO jack on your TV.

Note: If your TV has component video (Y, Pb, Pr) jacks, use video-grade cables (not provided) to connect the TV to the DVD player (Y to Y, Pb to Pb, etc.). It is essential to match the color coded connectors with a compatible TV.

3. Connect the AC power cord into an AC outlet.
4. Connect your cable or off-air antenna to your television as you normally would. You may need to consult your television manual for details.

Go to page 8

Chapter 1: Setup and Connections

Connection: DVD + TV + Audio Receiver

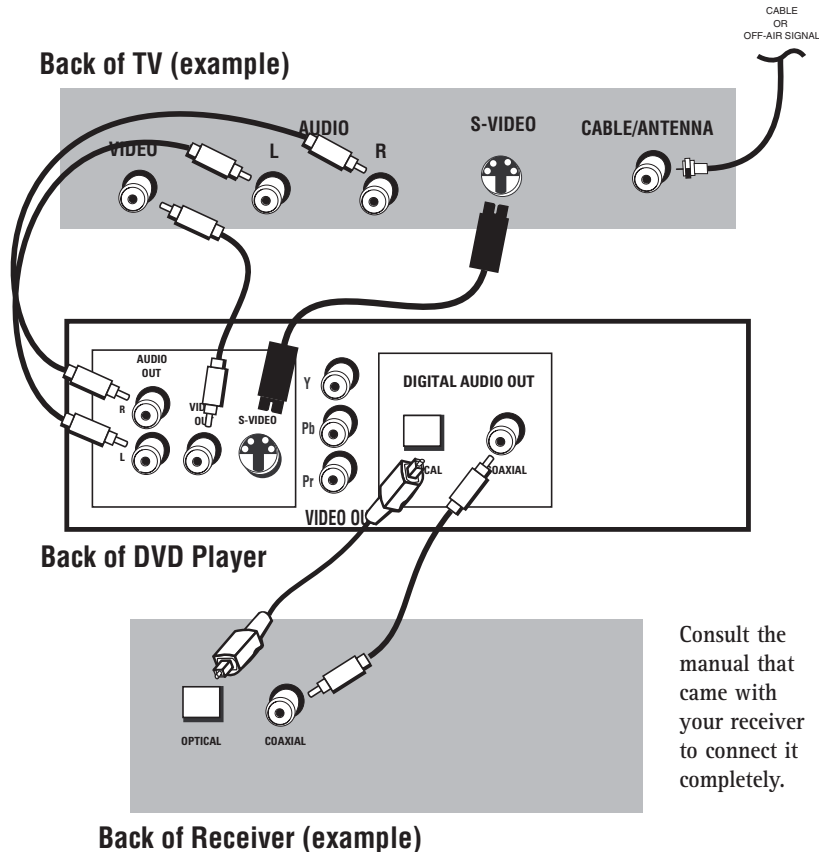
Both Dolby Digital® and DTS® are audio formats used to record 5.1-channel audio signals onto the digital track of film (while the film is being made). Both of these formats provide up to six separate channels: left, right, center, left rear, right rear, and common subwoofer. The disc will play 5.1-channel sound only if you've connected a DTS or Dolby Digital receiver or decoder and if the disc is encoded in the Dolby Digital or DTS format.

Please Read This Before Using the DIGITAL AUDIO OUT Jack!

This player's digital output jack is designed for a connection to a Dolby Digital or DTS receiver or decoder. Older digital equipment may not be compatible with the Dolby Digital bitstream. Such a connection can create a high level of noise that may be harmful to your ears, and could damage headphones or speakers. It is important to choose the correct Digital Output setting in the DVD Player's Sound menu, especially when you use either of the DIGITAL AUDIO OUT jack. For more information, go to page X.

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DTS is a registered trademark of Digital Home Theater Systems, Inc.



DVD Player + TV + Audio Receiver

1. Connect the left and right audio cables to your audio/video receiver and to the AUDIO OUT L (left – white) and R (right – red) jacks on the back of your DVD Player.
2. If you have a Dolby Digital or DTS receiver, use one of the DIGITAL AUDIO OUT jacks to connect the receiver to the DVD player. You must also set the *Digital Output* setting in the *Sound* menu (go to page 44).

Note: The DIGITAL AUDIO OUT jack has two options: OPTICAL and COAXIAL. Some Dolby Digital receivers have one type of Digital Audio Input jack, and some have both. Under most conditions, optical and coaxial connections work equally well – the only difference is the type of cable you connect to the jack.

Rarely, but sometimes, coaxial cables – especially long ones, pick up radio frequency (RF) interference from household appliances, nearby power lines, and/or broadcast towers. If you want to use a less expensive cable, connect a coaxial cable to the COAXIAL jack.

If you would rather use the OPTICAL jack, connect an optical digital cable to the DVD player and to the corresponding digital optical input jack on the receiver.

3. Connect the video cable.
 - A. Basic video connection – Connect the video cable (yellow) to the VIDEO OUT jack on the back of your DVD Player, and to the Video Input jack on your TV (sometimes labeled VIDEO IN).

– OR –

- B. S-Video (not provided) – If your TV has an S-Video jack, connect the S-Video cable to the S-VIDEO OUT jack on the back of your DVD Player and to the S-VIDEO jack on your TV.

Note: If your TV has component video (Y, Pb, Pr) jacks, use video-grade cables (not provided) to connect the TV to the DVD player (Y to Y, Pb to Pb, etc.). It is essential to match the color coded connectors with a compatible TV.

4. Connect the AC power cord into an AC outlet.

Go to page 8

Chapter 1: Setup and Connections

Install Batteries in the Remote

1. Remove the battery compartment cover on the back of the remote.
2. Insert new batteries. Match the polarities (+ and -) on the batteries with the diagram on the remote.
3. Put the battery compartment cover back on the remote.

Important Battery Information

- If you're not going to use the remote for a month or more, be sure to remove the batteries because they can leak and cause damage.
- Dispose of batteries in the proper manner, according to federal, state, and local regulations.
- Any battery may leak electrolyte if mixed with a different battery type, if inserted incorrectly, if all batteries are not replaced at the same time, if disposed of in fire, or if an attempt is made to charge a battery not intended to be recharged.
- Discard leaky batteries immediately. Leaking batteries can cause skin burns or other personal injury.

Point the Remote in the Right Direction and Put it in DVD Mode

When you want the remote to operate the DVD Player, point the remote at the DVD Player, not the TV. The remote has to be pointed in the correct direction and toward the correct component in order for the remote control's signal to communicate with the sensor on the component. Make sure there is a clear path between the remote control and the component you want to operate, so the signal isn't blocked.

Make sure the remote is in DVD mode – press the DVD button.

Turn on the TV and DVD Player

1. Turn on your TV and tune it to the correct Video Input Channel (if you don't know which channel is your the Video Input channel, go to page 61 for help).
2. Press the ON•OFF button to turn on the DVD Player.

Chapter 1: Setup and Connections



3. The first time you turn on your DVD player, the *Language* menu appears.

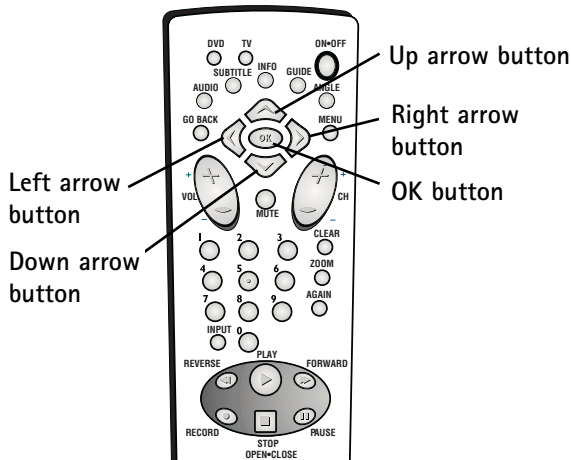
If you want the DVD player's menus to appear in *English*, press the OK button on the remote control. If you prefer another language, press the arrow down button until that language is highlighted. Press OK to select the language.

Next Steps

This chapter is dedicated to connecting your DVD Player. Before you start playing discs, you might want to get familiar with the remote control – Chapter 2 has details.

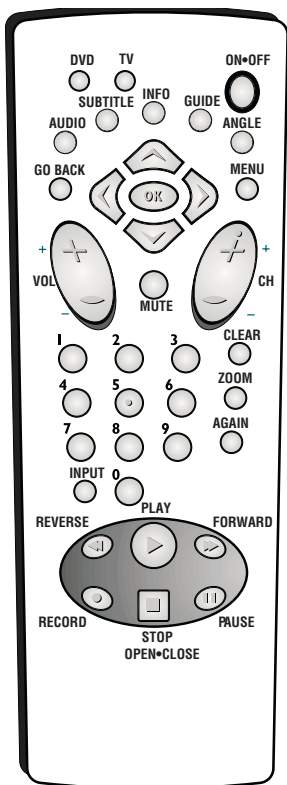
If you want to skip straight to playing discs, go to Chapter 3 (page 14). It explains playback features of DVDs, Audio CDs, Video CDs, discs that contain MP3 files, and discs that contain JPEG files.

The DVD Player's menu system is outlined in Chapter 4 (page 33), and Chapter 5 contains troubleshooting assistance, your Limited Warranty, and additional information about your DVD Player.



Use the the arrow buttons on the remote to move through on-screen menus. Press the OK button to select a menu item that is highlighted.

Chapter 2: The Remote Control



This remote operates most RCA, GE, and Proscan TVs.

The Remote Control

You can use this remote to operate the DVD player, and to access the features available. The remote is also designed to operate most RCA, GE, and Proscan TVs – just press the TV button. The descriptions that follow, describe how each button works when operating the DVD player.

0-9 (Number buttons) Use the number buttons to input information such as chapter numbers, track numbers, or to make selections on some menu screens.

Arrow buttons (up, down, left, right) Use the arrow buttons to move through the on-screen menu system and Info Display.

AGAIN Accesses the Scene Again™ feature – replays the last several seconds of the title you're playing.

ANGLE Accesses various camera angles that might have been added to the disc when it was created.

Note: Currently, very few movies provide multiple camera angles.

AUDIO Accesses the audio portion of the on-screen Info Display that enables you to play a disc in a different language (the feature only works if the disc was created with different audio languages).

Chapter 2: The Remote Control

CH + Advances to the next chapter or track.

CH - Goes back to the preceding chapter or track.

CLEAR Removes on-screen menus and displays.

DVD Puts the remote in DVD mode so it operates the DVD Player.

FORWARD Searches forward through the disc.

GO BACK Returns you to the previous menu.

GUIDE Accesses the DVD disc guide (if available).

INFO Displays the on-screen Info Display (for details about the Info Display, go to page X.)

INPUT **No function when operating the DVD Player (DVD mode).** In TV mode, accesses the Video Input Channel(s) so you can see what's playing in the DVD Player, on the TV screen.

MENU Accesses the disc's menu (disc guide) if one is available.

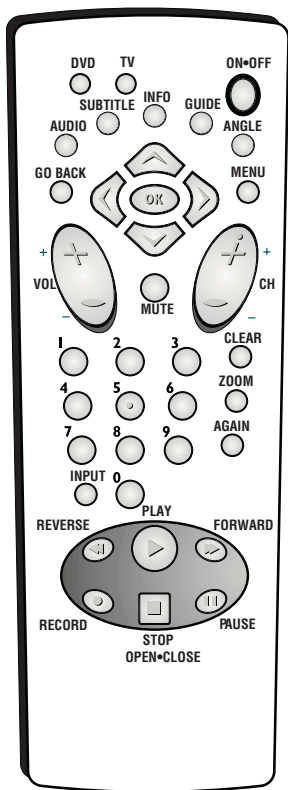
MUTE **No function when operating the DVD Player (DVD mode).** In TV mode, lowers the volume to its minimum level. Press again to restore volume.

OK When a menu is on the screen, selects the highlighted item.

ON•OFF Turns the DVD Player on and off.

OPEN/CLOSE Opens and closes the disc tray when you press and hold down the button for several seconds.

Chapter 2: The Remote Control



This remote operates most RCA, GE, and Proscan TVs.

PAUSE Pauses disc play. When using DVD discs, press again to search forward a frame at a time.

PLAY Begins disc play.

RECORD Used with some TVs that have an on-screen programming guide that enables automatic recording when connected to a VCR.

REVERSE Searches backward through the disc.

STOP Stops playback. Press and hold to open and close the disc tray. In order to see the DVD Player menu, press the STOP button.

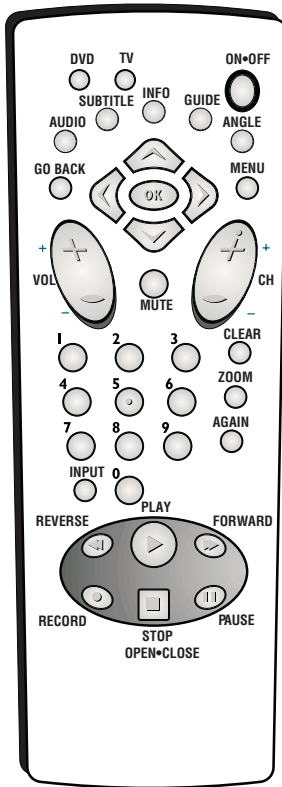
SUBTITLE Accesses the Subtitle part of the on-screen Info Display, and turns Subtitles on and off (if subtitles are available on the disc you're playing).

TV Used to operate your TV (this remote operates most models of RCA, GE, and Proscan brand TVs).

VOL +/- If your remote is capable of operating your TV, increases and decreases the volume level.

ZOOM Enlarges the image on the screen so you can zoom in on details. To pan horizontally and vertically while you're zooming, press the arrow buttons on the remote.

Chapter 2: The Remote Control



This remote operates most RCA, GE, and Proscan TVs.

Find out if the remote can operate your TV

This remote control is designed to operate most RCA, GE, and Proscan TVs.

1. Press the TV button.
2. Press the ON•OFF button (if the TV turns on or off, this remote will operate the TV).

Tune to the TV's Input Channel

To watch DVDs, the TV needs to be tuned to the Video Input channel that corresponds with the jacks you used to connect the DVD Player to the TV.

1. Press the TV button on the remote.
2. Press the INPUT button until you see the picture from the DVD Player (the DVD main menu, or if a disc is playing, you'll see the movie on the screen). If you need more help to find your Video Input channel, go to page 61.

Chapter 3: Playing Discs



This DVD Player is capable of playing the following types of discs: DVDs, audio CDs, Video CDs, MP3 CDs. Before you put a disc in the player, make sure it is compatible.

You can't play the following types of discs: Laserdiscs, CD-I, CD-ROM (computer-only discs), DVD-ROM, or discs recorded using other broadcast standards (i.e. PAL or SECAM).

Note: Some discs may not be compatible due to laser pickup and disc design.

Regional Coding

Both the DVD Player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes don't match, the disc won't play. This player's code is region 1.

Using Different Menus

Each disc is programmed with different features. There are three separate types of menus that you can use to access features:

- **The Disc menu** – The Disc menu is part of each disc and is separate from the DVD player's menu. The contents of each Disc menu vary according to how the disc was authored and what features are included. The Disc menu is turned on and off (while the disc is playing) with the MENU button on the remote.
- **The DVD player's Info Display** – The Info Display appears as icons across the top of the screen when a disc is playing. It can only be accessed while you are playing a disc. It's turned on and off with the INFO button on the remote.
- **The DVD player menu** – The DVD player's menu system is accessed only when a disc isn't playing. It appears automatically when you press the STOP button on the remote.

Remember: A feature will only work if the disc was programmed with that feature. For example, if you choose subtitles on the Info Display, the subtitles will only appear if the disc was created with subtitles. If a menu or icon is "grayed out" it means that item (or feature) isn't available.

Chapter Contents

The beginning of this chapter pertains to DVD discs. Many of the player's features work the same way with other types of discs. Video CDs, Audio CDs, and MP3 CDs are explained later in the chapter.

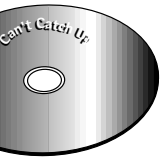
Chapter 3: Playing Discs (DVDs)

To Load and Play a DVD Disc

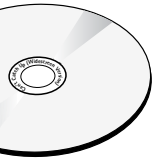
Turn on the TV and your DVD Player (press ON•OFF on the remote or press the STANDBY/ON button on the DVD Player).

1. If necessary, tune the TV to its Video Input channel (if you need more information, go to page 61).
2. Press the OPEN/CLOSE button (the disc tray opens).
3. Place a disc gently into the tray with the disc's label facing up (double-sided discs have content on both sides, so you can place either side up).
4. Press the OPEN/CLOSE or PLAY button. The disc tray closes. The DVD Player reads the disc's table of contents, and then one of three things happens depending on how the disc was programmed:
 - The disc starts playing.
 - The disc menu appears on the screen. One of the options will start disc play. Highlight that option and press OK.
 - The DVD Player's main menu appears on the screen. Highlight the *Play* option and press OK.

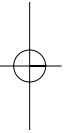
When you stop playing a disc, the player remembers where you stopped. When you start playing the disc again, the DVD Player picks up where you left off unless the disc is removed or the player is unplugged, or if you press the STOP button twice.



An example of a DVD disc.



An example of a DVD disc – the title screen in the center.



Chapter 3: Playing Discs (DVDs)

Search Options

To search a disc, you can use the FORWARD button or the REVERSE button. You can also utilize the following search features:
Picture Scan – When you're playing a disc, each time you press FORWARD or REVERSE, your DVD Player scans the disc faster until you reach the fastest scan speed. To resume normal playback, press PLAY.

Freeze Frame and Frame Advance – While a disc is playing, press PAUSE to freeze the picture. To advance one frame at a time, press PAUSE again (the on-screen icon changes from PAUSE to FRAME). Each time you press the FORWARD or REVERSE button, the picture goes to the next (or previous) frame. To resume normal playback, press PLAY.

Slow Motion (in Freeze Frame Mode) – While a disc is playing, press PAUSE. Press REVERSE or FORWARD (each time you press REVERSE or FORWARD the slow motion will get even slower until you reach slowest speed). To resume normal playback, press PLAY.

Playback options

Many of your DVD Player's playback features are accessed through the Info Display (described on pages 17 through 25). Additionally, with some discs you can use the Zoom Feature to see details of an image and the Scene Again feature to quickly repeat the last few seconds of the movie.

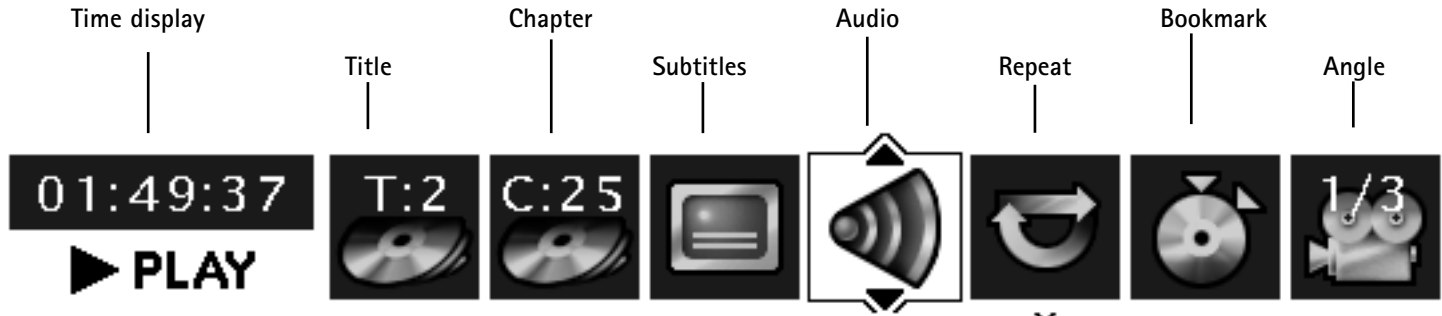
Zoom

1. While you're playing a disc, press ZOOM (the player zooms in on the image). Each time you press ZOOM, the picture is magnified even more (until you get to the maximum zoom level).
2. To see other parts of the picture when you've zoomed in on the image, press the up, down, left, and/or right arrow buttons.

Scene Again

1. While you're playing a disc, press the AGAIN button on the remote (the disc automatically repeats the last few seconds of the movie).

Chapter 3: Playing Discs (DVDs)



Text will appear here as you highlight different icons to help you use the Info Display.

Using the On-Screen Info Display

The on-screen Info Display contains many playback features. To see the Info Display, press the INFO button on the remote while a disc is playing (the Info Display appears across the top of the screen). Each feature is illustrated with an icon. Use the left and right arrow buttons to move through the different icons in the Info Display. When an icon is highlighted, use the up and down arrow buttons on the remote to scroll through the choices displayed in the text box under the icons.

Remember, you can only access the Info Display when you're playing a disc. Also, the Info Display features are only available if the disc was created with that particular feature (i.e., if you select the Angle icon, you won't be able to change the camera angle unless the disc was created with different camera angles). Also, if one of the icons is "grayed out," the Info Display feature isn't available for the disc you're playing.



The invalid symbol appears on the screen when you press a button that doesn't have any function. To make the Info Display disappear from the screen, press INFO on the remote control.

Chapter 3: Playing Discs (DVDs)



Time Display

This feature displays the time that has elapsed during playback. For DVD discs, the time displayed refers to the current title and acts as a Time Search feature. For example, if you like a particular scene in a movie, you can enter the elapsed time the scene plays and skip right to it. To use Time Search:

1. Press INFO on the remote (the Info Display appears).
2. If the time box isn't already highlighted, use the left/right arrow buttons on the remote control to highlight it.
3. Use the number buttons on the remote to enter the elapsed time you want to go to in that title. You must use two digits for each field. For example, if you enter 01:35:12, playback will start one hour, 35 minutes, and 12 seconds into the title.

Note: For Audio CDs, the time displayed refers to the track that's playing.



Selecting a Title

Some discs contain more than one title. For example, there might be four movies on one disc (each movie might be considered a title). Each title is divided into chapters. To select a title:

1. While the disc is playing, press INFO on the remote (the Info Display appears).
2. If the Title icon on the Info Display isn't highlighted, press the right/left arrow buttons to highlight it.
3. Use the number button(s) on the remote to enter the title number or press the up/down arrow buttons to go to the next or previous title.

Note: Some discs only have one title.



Selecting a Chapter

Because DVD discs use digital technology, a title can be divided into individual chapters (similar to tracks on a CD). You can skip to a specific chapter by using the Chapter feature in the Info Display.

1. While a disc is playing, press INFO on the remote (the Info Display appears).
2. Press the right arrow button until the chapter icon is highlighted.
3. Press the number button(s) on the remote to enter the chapter you want to play –enter 2 digits (for example, to go to chapter 4, press 0 and then press 4). The movie starts playing at the beginning of the chapter you entered.

Note:

The Chapter feature won't work if the disc isn't formatted with separate chapters.

Shortcut

While you're playing a disc, you can use the CH +/- buttons to go to the next chapter/previous chapter.

Chapter 3: Playing Discs (DVDs)



Selecting Subtitles

By default, subtitles are off. To turn subtitles on:

1. While a disc is playing, press INFO (the Info Display appears).
2. Press the right arrow button until the Subtitle icon is highlighted.
3. Press SUBTITLE to turn on subtitles (the subtitles appear at the bottom of the screen)
4. To change the subtitle language, press the up or down arrow button repeatedly to see what subtitle languages are available (the subtitle language options appear in the box at the bottom of the Info Display).
5. To turn subtitles off, press the SUBTITLE button again.

Notes:

Changing the subtitle language with the Info Display will only affect the disc you are currently playing. When the disc is removed or the player is turned off, the subtitle language will revert to the language setting specified through the DVD player's main menu.

The subtitle language can also be changed through the DVD player menu.

If the disc doesn't contain the language you want to use, the disc's default language is automatically selected.

Some discs are programmed to only allow you to access the subtitle feature through the disc's menu.



Changing the Audio Language

If the disc was created with different language tracks (recorded in different languages), you can change the language while you're playing the disc.

1. While a disc is playing, press INFO (the info display appears).
2. Press the right arrow button until the Audio icon is highlighted.

Shortcut
Press the AUDIO button, while the disc is playing (the Info Display appears with the Audio icon already highlighted).
3. Press the down arrow button on the remote to scroll through the available audio languages.
4. When the language you want to use is highlighted, press the OK button (the dialog plays in the language you selected).

Notes:

The language feature only works if the disc was created with multiple language tracks. If the disc doesn't contain the language you selected, the disc will play in the default language.

When you choose an audio language during disc playback, you only override the audio language setting in the DVD Player's main menu temporarily.

The audio language can also be changed through the DVD player menu.

Chapter 3: Playing Discs (DVDs)



Using the Repeat Feature

By default Repeat feature is Off. There are three Repeat options:

- Title – repeats the title that is playing
- Chapter – repeats the chapter that is playing
- A-B – repeats a segment of the disc that you select.

Repeating Titles, Chapters, or Tracks

1. While a disc is playing, press INFO (the Info Display appears).
2. Press the right arrow button until the Repeat icon is highlighted.
3. Press the up or down arrow button to scroll through the different Repeat options – Repeat title, Repeat chapter, Repeat disc, Repeat AB, and Repeat off (the modes will appear at the bottom of the Info Display).
4. To turn off the Repeat feature, press the up or down arrow button repeatedly until *Repeat Mode: Off* appears.

AB Repeat

AB Repeat lets you define a specific segment on the disc that you want to repeat. For example, you might want to watch the dogfight in the movie Top Gun. To watch this scene over and over:

1. Follow steps 1 and 2 above.
2. Press the up (or down) arrow button until *Repeat Mode: AB. Press OK to set A point* appears at the bottom of the Info Display. Press OK when the disc gets to the beginning point of the segment (the A point) that you want to repeat.

Chapter 3: Playing Discs (DVDs)

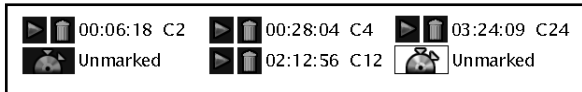
3. Allow the disc to play to the end of the segment you want to repeat. Don't fast forward – you must let the disc play in standard playback mode to set the B point (the ending point of the segment). Press OK to set the B point (the segment you marked will play repeatedly until you turn off the Repeat feature).
4. To turn off the Repeat feature, highlight the Repeat icon, and press the up arrow button on the remote until *Repeat Mode: Off* appears at the bottom of the Info Display.

Note: Repeat is also cancelled when you eject the disc from the player.



Using the Bookmark Feature

The Bookmark feature lets you mark a point on the disc so that when you turn the player off and back on (without having ejected the disc), you can quickly start playing the disc from a bookmarked point. There are 6 bookmarks available.



This is the Bookmark Banner.

Select the arrow icon (the international symbol for playback) to play a disc from the bookmarked place on the disc.

Select the trash can icon to delete (clear) the Bookmark.

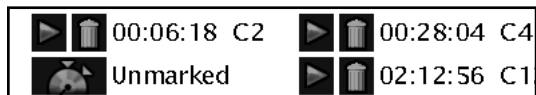
The disc with two arrows represents an available bookmark.

Creating a Bookmark

1. Press the INFO button on the remote (the Info Display appears).
2. Press the right arrow button to highlight the Bookmark icon. Press OK (the Bookmark Banner appears).

Continued on next page

Chapter 3: Playing Discs (DVDs)



Unused bookmark icon

3. Make sure an unused (unmarked) bookmark is highlighted. When the disc reaches the scene you want to mark, press the OK button on the remote (the bookmark icon changes to two icons side-by-side: an arrow and a trash can).



To play the disc from the bookmarked scene, highlight the arrow (the international symbol for playback) and press the OK button.

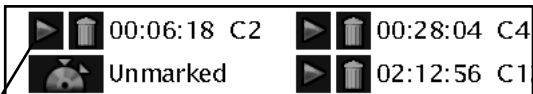


To delete the bookmark, highlight the trash can and press OK.

4. To remove the Info Display and/or Bookmark Banner, press the INFO button on the remote.

Using a Bookmark

1. While you're playing a disc, press the INFO button on the remote (the Info Display appears).
2. Press the right arrow button to highlight the Bookmark icon, and press OK (the Bookmark Banner appears).
3. Use the arrow buttons on the remote to highlight the play arrow icon that's next to the bookmarked scene you want to activate.
4. Press OK (the disc starts playing from the bookmarked scene).



Play arrow icon



Clearing a Bookmark

The bookmarks are erased each time you remove a disc from the player and/or when the power is turned off.

1. While you're playing a disc, press the INFO button on the remote (the Info Display appears).
2. Press the right arrow button to highlight the Bookmark icon, and press OK (the Bookmark Banner appears).
3. Use the arrow buttons on the remote to highlight the trashcan icon that's next to the bookmarked scene you want to delete, and press OK (the bookmark is cleared, and the trashcan icon changes back to an unused bookmark icon).



Trashcan icon




Unused bookmark icon



Changing the Camera Angle

Some discs contain multiple angles of a particular scene or sequence. If the disc only has one angle, this feature won't work. Currently, very few discs have this feature.

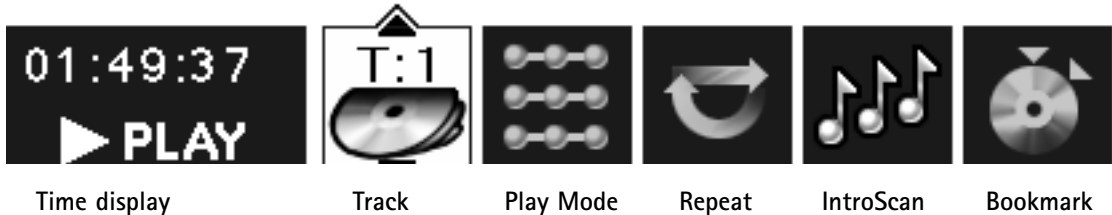
1. While a disc is playing, press ANGLE on the remote. If the disc wasn't created with multiple angles,  (the invalid symbol) appears. If the disc contains multiple angles, the Angle icon appears with the current angle number and the number of angles available. For example, 1/4 indicates that Angle 1 is displayed and there are 4 different angles available.
2. Press the ANGLE button again to go to the second camera angle. Press ANGLE again to go to the third angle, etc.
3. To resume normal playback, scroll through the camera angles until you get to Angle Off.

Chapter 3: Playing Discs (Audio CDs)



Audio CDs

Your DVD Player has many of the same features as an audio CD player. The on-screen Info Display lets you choose various playback features.



Using the Time Display

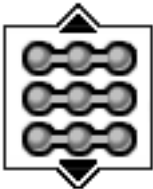
The clock on the Info Display shows how much time has elapsed for the track that's playing. You can also use the clock to search the disc by entering the time that corresponds to the place you want to go on the disc. For instructions, go to page 18 in the Playing DVDs part of this chapter.

Selecting a Specific Track

You select a track on a CD the same way you select a chapter when you're playing a DVD. When the Info Display is on the screen, highlight the Track icon. Use the number buttons on the remote to enter the track number you want to play.

Using the Play Mode Feature

Unlike a DVD disc, the various Play Modes are available from the Info Display when you're playing an audio CD. The Play Mode feature lets you set up the order in which you want the tracks on the CD to play. There are three Play Modes:



Chapter 3: Playing Discs (Audio CDs)

Standard: the tracks play in the same order as listed on the CD (starting with track 1). This is the default play mode.

Random: the tracks on the CD play in a random order.

Program: the tracks play in the order you designate. To use the Program play mode, you must set up the order in which you want the tracks to play in the DVD Player's main menu system (go to page 35 for instructions).

Random

The Random option plays the tracks in a random order.

1. While you're playing a disc, press INFO (the Info Display appears).
2. Press the left or right arrow button to highlight the Play Mode icon.
3. Press the down arrow button until *Play Mode: Random* appears in the text at the bottom of the Info Display (the tracks start playing in random order).

To switch back to Standard Playback, follow steps 1 through 3 above until *Play Mode: Standard* appears underneath the Info Display icons.

Note: The player defaults to Standard Playback whenever you put a new CD into the DVD player.

Program

The Program Play Mode is only available after you set up a program. Go to page 35 for instructions.

Chapter 3: Playing Discs (Audio CDs)



Bookmarks

The Bookmark feature lets you mark a point on the disc so that when you turn the player off and back on (without having ejected the disc), you can quickly start playing the disc from a bookmarked point.

The Bookmark Feature is explained in the DVD part of this chapter (go to page 23 for instructions).



IntroScan

Use the IntroScan feature to preview the first few seconds of each track on the CD.

1. While the CD is playing, press INFO (the Info Display appears).
2. Use the arrow buttons to highlight the IntroScan icon.
3. Press OK (the first few seconds of each track starts playing). To stop IntroScan, press the STOP button.



Video CDs (VCDs)

Video CDs contain audio and video content just like DVD discs, but they are created in a different format and don't hold as much information as DVD discs. The picture quality on a VCD isn't as high as the picture quality on a DVD disc.

VCDs are divided into tracks and titles. Because VCDs contain less information than a DVD disc, some of the features of your DVD Player might not work with some VCDs.



Using the Playback features

While you're playing a VCD, press INFO on the remote (the on-screen Info Display shown above appears on the screen).

Time Display: Go to page 18 for details.

Playback Control: Use the arrow buttons to highlight the Playback Control icon. Press the up or down arrow button to go back and forth between On and Off. Playback Control enables you to access the VCD's menu if it has one.

Audio: Go to page 21.

Repeat: Go to page 22.

Chapter 3: Playing Discs (MP3s)



Playing MP3 Discs

MP3 (MPEG-3, which stands for Motion Picture Experts Group-Layer 3, meaning the third layer of information) is a format used to compress digital audio. Since the audio is compressed, it takes up less space.

Obtaining MP3 Files

There are two ways to obtain MP3 files:

- Use your computer software to encode MP3 files from an audio CD – you can download the software from some internet sites such as MusicMatch.
- Download MP3 files from the internet. Some internet sites allow you to download MP3 files for free, and some charge a fee.

Creating an MP3 Disc on Your Computer

Your DVD player handles MPEG-1, layer III audio. If you encode your own MP3 files from an audio CD, avoid using the features of MPEG-2, such as the 22kHz sampling frequency.

Be sure to make a data CD rather than an audio CD. If you make an audio CD, you will lose the extra features and compression of the MP3 format.

When you burn a CD, take the following steps to get optimal use of the CD for playing in your DVD player. In your CD burning software, select ISO-9660 for the file system.

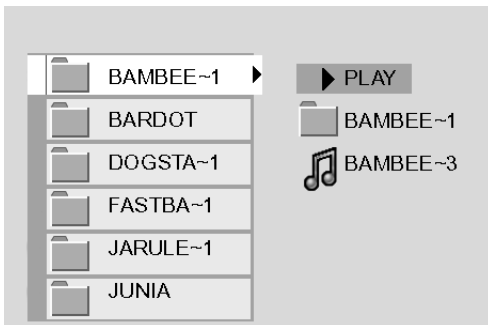
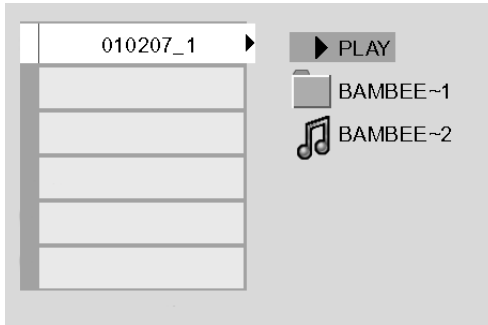
Notes:

Help – For more information regarding MP3 encoding software and MP3 sites, visit www.lyrazone.com.

The Joliet file system is not recommended. Using the Joliet file system may result in shortened file names.

Some transport modes (reverse and fast forward) are not available for MP3 CDs.

Chapter 3: Playing Discs (MP3s)



Note: There isn't an Info Display when playing MP3 files.

The MP3 Display

MP3 discs contain individual songs that can be organized into folders – similar to how you use your computer to put documents (files) into different folders when you burn them onto the CD. The contents of a folder can either be songs or more folders (subdirectories).

Selecting Folders and Songs

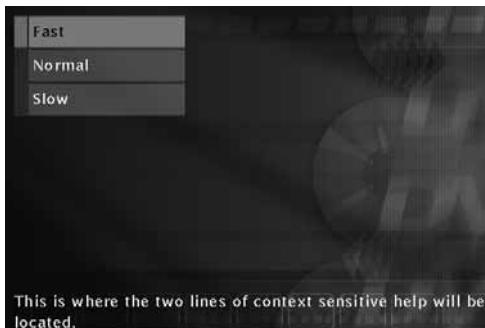
Playback begins automatically when you insert an MP3 disc into the player. The player will begin playing the songs in the order they were burned on the disc.

1. If a disc is playing, press STOP. To open a folder, use the arrow buttons on the remote to highlight the folder and press OK (the songs in the folder appear).
2. Use the up/down arrow buttons to highlight the song you want from the song list. To start playing the highlighted song, press OK.

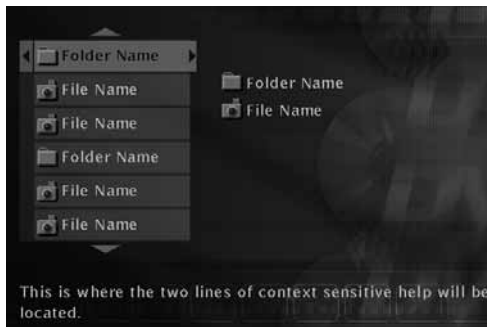
Skipping Songs

Use the CH+ button to move to the next song. Use the CH- button to move to the beginning of the song that's currently playing. Press CH- again to move to the previous song.

Chapter 3: Playing Discs (JPEG files)



The slide show menu appears automatically when you put a disc in the player that has JPEG files on it.



Use the arrow buttons to highlight the folder than contains the JPEG files you want to view, and press PLAY.

Viewing JPEG files

This DVD Player can play discs with JPEG files on it. You can use the DVD Player to show the pictures in a slide show format.

Slide Show

After you put the disc in the DVD Player and it detects there are JPEG files on the disc, the slide show menu appears automatically.

1. Use the up or down arrow buttons on the remote to highlight how fast you want the slide show to play.
Fast - the picture stays on the screen for 10 seconds before displaying the next JPEG file (picture).
Normal - 15 seconds between pictures.
Slow - 30 seconds between pictures.
2. Press OK (the folders and/or JPEG files appear on the screen). Use the up and/or down arrow buttons to highlight a folder, and press PLAY (the slide show begins). To stop the slide show, press the STOP button.
3. If the picture appears upside down or sideways, press the ANGLE button until it's right side up.
4. To magnify the picture, press the ZOOM button (each time you press ZOOM, the picture is magnified more until you reach the maximum zoom level).

Note: To see other parts of the picture when it's magnified, press the up, down, left, and/or right buttons.
5. To see the picture at its regular size, continue pressing the ZOOM button until the picture is at the original size again.

Chapter 4: DVD Menu System

The DVD Player Menu System

The DVD player menu system is not the same as the disc menu or the Info Display. The DVD player menu comes up when there is no disc playing. If you are playing a disc, press STOP on the remote control to stop playback and bring up the DVD player menu.



Path Items

A path menu item has an arrow on the right side to let you know this item is a path to MORE options. To see the path menu options, highlight the menu item and press OK. The next set of menu choices appears to the right of the menu item.

The Main Menu

The main menu contains the following submenus:

Play/Resume Play - starts playback

Play Mode - enables you to play chapters or tracks in a different order than the way they were created on the disc

Lock - enables you to set up rating limits and lock the player so you can control which discs require a password in order to play them

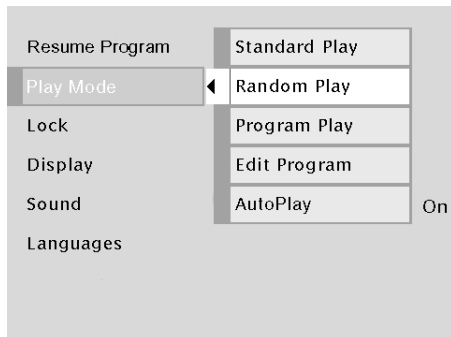
Display - controls how the pictures looks

Sound - controls sound settings

Languages - contains settings for audio, menu and subtitle languages

Use the arrow buttons on the remote to navigate through the menu system. Press the right arrow or OK button to select items. To make the menu disappear from the screen, press CLEAR.

Chapter 4: DVD Menu System



Play Mode

Discs are formatted to play chapters (or tracks on audio CDs) in a certain (standard) order. If you'd like to play chapters in a different order, you can use the Play Mode feature. You must have a disc in the player with the disc tray closed in order to access all of the Play Mode items.

Standard Play

The DVD Player's default play mode is standard, meaning the chapters and tracks on a disc play in the order listed on the disc – starting with chapter (track) 1.

Random Play

The Random option plays a disc's chapters in random order. If there is more than one title, the title with the most chapters is selected. If there is more than one title and all titles have an equal amount of chapters, the first title is selected. If each title has only one chapter each, the titles/chapters will be played in random order.

1. If you're playing a disc, press STOP to stop playback.
2. Press the down arrow button to highlight the *Play Mode* menu.
3. Press the arrow down button to highlight *Random*.
4. Press OK.
5. To stop Random playback, press STOP twice. To resume normal playback, press PLAY.

Program Play

You must create your program (playlist) in the *Edit Program* menu before you can access the *Program Play* menu. By selecting *Program Play* in the *Play Mode* menu you're telling the DVD Player to play the disc in the order you created in the *Edit Program* menu.

Edit Program

1. If you're playing a disc, press STOP (the main menu appears).
2. Press the down arrow button to highlight *Play Mode*, and press OK.
3. Press the down arrow button until *EDIT PROGRAM* is highlighted, and press OK..
4. Use the number buttons on the remote control to enter the chapter (or track) you want to play first.
5. Repeat step 4 until you've programmed all of the chapters you want to play.
6. Press OK to start programmed playback.
7. To stop Program Play, press STOP twice. To resume normal playback, press PLAY.

AutoPlay


You can set up the DVD Player so a disc automatically starts playing whenever the disc tray is closed.


1. If you're playing a disc, press STOP (the main menu appears).
2. Press the down arrow button to highlight *Play Mode*, and press OK.
3. Press the down arrow button until *AutoPlay* is highlighted. Press OK (*On* appears next to the *AutoPlay* menu). To turn AutoPlay off, just press OK again while *AutoPlay* is highlighted.

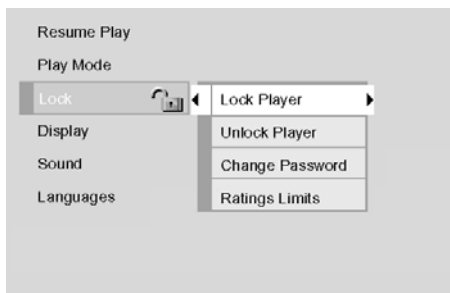
Chapter 4: DVD Menu System

The Lock Menu

You can set up ratings limits and lock your player in order to control the type of content people watch on your DVD Player. The padlock icon on the Lock menu indicates whether the player is locked or unlocked.

 **Locked:** You need to enter the password in order to play discs that have a higher rating than what you've allowed. When the player is locked, nobody can access the *Lock* menu without entering the password.

 **Unlocked:** No password required to play discs. Even if you've set ratings limits, they won't be enforced when the player is unlocked.



Locking your DVD Player

1. If you're playing a disc, press STOP (the DVD Player's main menu appears).
2. Press the down arrow button until *Lock* is highlighted, and press OK (the *Lock* menu items appear).
3. Since *Lock Player* is highlighted, just press the OK button on the remote (the *Enter Password* screen appears).
4. Use the number buttons on the remote control to enter your password and press OK (*Confirm Password* appears). Enter the same numbers you entered before and press OK (you return to the main menu with the lock icon locked to indicate that the player is locked).

Once the player is locked, you'll need to enter the password everytime you access the *Lock* menu.

Note: The player is shipped without any rating limits set. You need to set Ratings Limits (go to page 38 for instructions) in order for the player to prevent people from playing discs with certain ratings.

Unlocking your DVD Player

1. If you're playing a disc, press STOP (the DVD Player's main menu appears).
2. Press the down arrow button until *Lock* is highlighted, and press OK (the *Enter Password* screen appears).
3. Use the number buttons to enter the password you created, and press OK (the *Lock* menu items appear).
4. Press the down arrow button until *Unlock player* is highlighted, and press OK. If asked, enter your password to confirm that you want to unlock the player (the screen goes back to the *Lock* menu with the padlock icon unlocked to indicate that the player is unlocked).



Changing Your Password

You can change your password, but the player must be locked.

1. If a disc is playing, press STOP (the main menu appears).
2. Press the down the arrow button until *Lock* is highlighted, and press OK. If asked, enter your current password if asked (the *Lock* menu items appear).
3. Press the down arrow button to highlight *Change Password*, and press OK (the *Enter New Password* screen appears).
4. Use the number buttons on the remote to enter the four-digit number that you want to use as your new password, and press OK (you will be prompted to enter your new password again to confirm). Enter your password, and press OK.

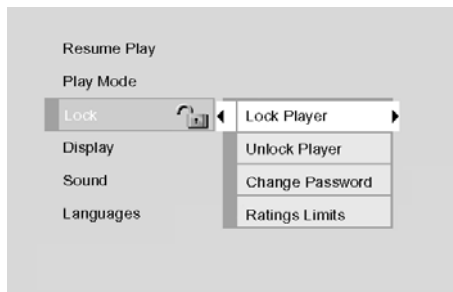
Chapter 4: DVD Menu System

Setting Ratings Limits

The Rating Limits feature lets you determine what types of discs can be played in the player, and what types of discs will require a password to override the rating limit that you've set. In the U.S., the ratings feature is based on the ratings set up by the MPAA (Motion Pictures Association of America) such as R, PG, G, etc.

The system ranks the ratings from 1 to 8 in order to accommodate ratings systems used in other countries (1 is considered material that is least offensive and 8 is considered the most offensive).

Note: In order for the Ratings to be enforced, the DVD Player must be locked and the disc you're playing must contain a movie (or a title) that is rated.



To set Ratings:

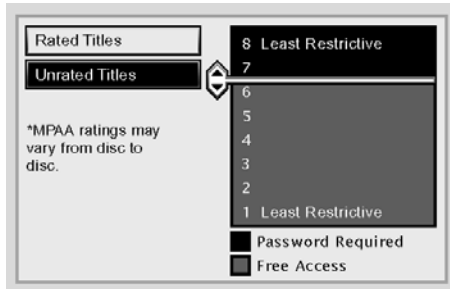
1. From the main menu, highlight *Lock* and press OK (enter your password if asked).
2. Highlight *Ratings* and press OK.

Rated Titles: most discs that contain movies shown in theatres have a rating assigned to them (R, PG-13, PG, G, etc.), but some discs contain titles (or movies) that aren't rated.

Unrated Titles: discs that contain titles that don't have a rating assigned to them. Sometimes, movies you might find the most explicit are unrated.

3. To set the ratings for Rated Titles, press OK (since the screen appears with *Rated Titles* already highlighted). The 8-level rating list appears.

Chapter 4: DVD Menu System



4. Use the up and down arrow buttons to move the bar to the rating level you find acceptable.
Ratings that don't require a password (free access) appear under the bar.
Ratings that require a password appear above the bar.
Press OK.

5. To set ratings for Unrated titles:

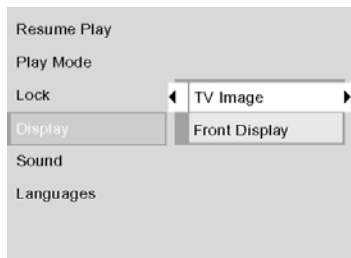
Follow the previous steps, but highlight *Unrated Titles* in step 3.



Chapter 4: DVD Menu System

The Display Menu

The Display menu contains the settings that affect how a disc's content looks on your TV and the brightness of the display that's on the front of the DVD Player.



TV Image

The *TV Image* menu adjusts the way a movie appears on your TV. Standard TVs are 4 x 3 format. Depending on the type of television you have, you may want to adjust the screen setting (also called the aspect ratio).

1. With the player on (no disc playing), press MENU (the main menu appears).
2. Use the up/down arrow buttons to highlight *Display*. Press the OK button on the remote (the *Display* choices appear).
3. Since the *TV Image* is the first submenu, it's already highlighted. Press the OK button (the *TV Image* options appear).
4. Use the up/down arrow buttons to highlight your choice (the options are explained below), and press OK to select.



4 x 3 Pan & Scan – Choose this setting if you want the movie to fill the entire screen of your TV. This might mean that parts of the picture (the left and right edges) won't be seen. Most discs produced in a widescreen format can't be cropped in this fashion. This means the black bars will appear at the top and the bottom of the screen.

Chapter 4: DVD Menu System

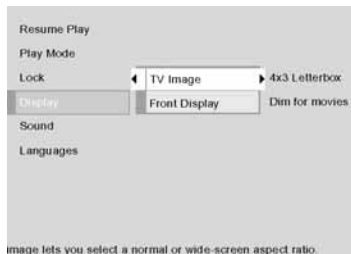


4 x 3 Letterbox – Choose this setting if you want to see movies in their original aspect ratio (height-to-width ratio). You'll see the entire frame of the movie, but it will take up a smaller portion of the screen vertically. The movie might appear with black bars at the top and bottom of the screen.



16 x 9 – Choose this setting if your DVD Player is connected to a widescreen TV. If you choose this setting and you don't have a widescreen TV, the images on the screen might appear distorted due to vertical compression. If you play a disc recorded in 4 x 3 format on a widescreen TV, the left and right side of the screen will appear black.

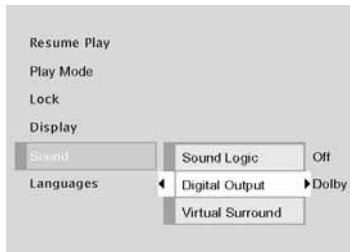
Chapter 4: DVD Menu System



Front Display

This feature lets you choose how the display on the front of your DVD Player appears.

1. From the Main Menu, (player on, no disc playing), highlight *Display* and press OK. (the *Display* options appear).
2. Highlight *Front Display* and press OK (the choices appear):
 - *Dim for Movies* (dims when disc is playing)
 - *Off for Movies* (no display when disc is playing)
 - *Always Bright*
 - *Always Dim*
3. Highlight the setting you want to use, and press OK (the *Display* menu appears with your choice listed next to the *Front Display* menu).



The Sound Menu

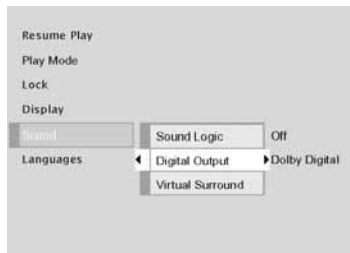
The *Sound* menu lets you adjust the player's settings to match the equipment that you connected to your DVD Player, and to use the Sound features of the player.

Sound Logic

The Sound Logic feature compresses the dynamic range (quietest sound to loudest sound) of a disc's soundtrack. For example, action scenes might be very loud, while whispered dialog is quiet. The Sound Logic feature evens out the range of the volume by making loud sounds quieter and soft sounds louder. There are no adjustments for Sound Logic – you turn it on or off. The default setting is Off. To turn Sound Logic on:

1. From the Main Menu, (player on, no disc playing), highlight *Sound* and press the OK button on the remote (the *Sound* options appear).
2. If *Sound Logic* isn't already highlighted, press the up arrow button on the remote control to highlight it.
3. To turn it on, press the OK button (*On* appears next to the *Sound Logic* menu).

Chapter 4: DVD Menu System



TruSurround and the TruSurround symbol are trademarks of SRS Labs, Inc., in the United States and selected foreign countries. TruSurround technology is incorporated under license from SRS Labs, Inc.

Digital Output

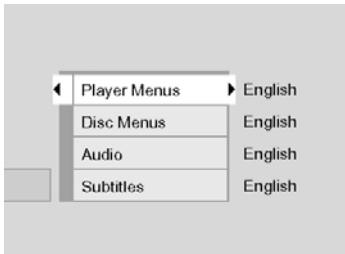
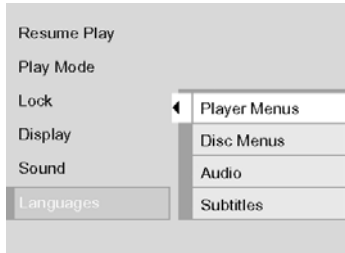
If you connected your DVD player to a receiver via the DIGITAL AUDIO OUT jack (COAXIAL or OPTICAL) on the back of the player, choose the type of receiver (or decoder) you have.

1. If the menu isn't on the screen, press the STOP button (the main menu appears).
2. Use the up/down arrow buttons to highlight *Sound*. Press OK.
3. Use the up/down arrows to highlight the *Digital Output* option. Press OK. (the options appear)
4. Use the up/down arrow buttons to highlight your selection. Press OK to select.
5. Press the left arrow button to return to the Sound menu or press MENU to exit the menu system.

Virtual Surround

The Virtual Surround® feature simulates a six-speaker listening experience through just two speakers. There are no adjustments for the Virtual Surround® feature – you turn it on or off. The default setting is Off. To turn the Virtual Surround® feature on:

1. From the Main Menu, (player on, no disc playing), press the down arrow button on the remote to highlight *Sound* and press OK (the *Sound* options appear).
2. Press the down arrow button to highlight *Virtual Surround*.
3. To turn it on, press the OK button (*On* appears next to the *Virtual Surround* menu).



Languages Menu

The *Languages* menu enables you to set preferred language options for the DVD Player's menu system, disc menus, the dialog (audio) of titles, and the subtitles.

Player Menu

You can change the language of the DVD player's on-screen menus.

1. From the Main Menu, (player on, no disc playing), highlight *Languages* and press the OK button on the remote (the *Languages* options appear).
2. If *Player Menu* isn't already highlighted, press the up arrow button on the remote control to highlight it, and press OK (the languages appear).
3. Press the down (or up) arrow buttons to highlight the language in which you want the menus to appear, and press OK (the *Languages* menu appears with your choice next to the *Player Menu* option).

Disc Menus

You can set your language preference for disc menu (a disc's menu is separate from the DVD player menu).

1. From the Main Menu, (player on, no disc playing), highlight *Languages* and press the OK button on the remote (the *Languages* options appear).
2. Press the down arrow button on the remote to highlight *Disc Menus*, and press OK (the languages appear).
3. Press the down (or up) arrow buttons to highlight the language in which you want the disc menus to appear, and press OK (the *Languages* menu appears with your choice next to the *Disc Menu* option).

Chapter 4: DVD Player Menu System

Audio

You can set your language preference for movies (titles) you play in your DVD Player – the language in which you'll hear the dialogue when you're playing a movie.

Notes: Discs are created differently. The DVD player can't override some language preferences. If a disc's software was created to play the movie (title) in a preferred language, the preference you set might be ignored. Also, if the language isn't available on the movie you're playing, the disc's default language will be chosen.

1. From the Main Menu, (player on, no disc playing), highlight *Languages*, and press the OK button on the remote (the *Languages* options appear).
2. Press the down arrow button on the remote to highlight *Audio*, and press OK (the languages appear).
3. Press the down (or up) arrow buttons to highlight the language in which you want movies (titles) to play, and press OK (the *Languages* menu appears with your choice next to the *Audio* option).

Tip: You can temporarily change the audio language while you're playing a disc by using the Info Display. Go to page 21 for more information.

Subtitles

You can set your language preference for the subtitles you see on the screen while playing a disc.

Notes: You must turn on the Subtitle feature in order for them to appear when you're playing a disc.

If the disc wasn't created with subtitles, you won't be able to use the Subtitle feature.

If the disc wasn't created with the Subtitle language you choose in the Subtitles menu, the disc's default subtitle language will be chosen.

1. From the Main Menu, (player on, no disc playing), highlight *Languages* and press the OK button on the remote (the *Languages* options appear).
2. Press the down arrow button on the remote to highlight *Subtitles*, and press OK (the languages appear).
3. Press the down (or up) arrow buttons to highlight the language in which you want the subtitles to appear, and press OK (the *Languages* menu appears with your choice next to the *Subtitles* option).

Tip: You can temporarily change the subtitle language while you're playing a disc by using the Info Display. Go to page 20 for more information.

Chapter 5: Additional Information

Troubleshooting

Player won't work

- Reset the player: press and hold the NEXT button on the front of the DVD Player and press the STOP button on the remote at the same time – wait at least 3 seconds before you release both buttons. You'll need to setup your menu preferences if you changed them since this Reset Procedure returns the DVD Player's menus to the settings they had when the product shipped to the retail stores.
- Try unplugging the AC power cord and plugging it back in.

No power

- Plug in the DVD Player. Make sure both ends of the AC power cord are securely plugged into the player and into an AC outlet.

Disc won't play

- Insert a disc with the label side facing up.
- Check the type of disc you put into the player. This player only plays DVD video discs, Video CDs and audio CDs.
- Both the player and the disc are coded by region. If the regional codes don't match, the disc cannot be played. This player is Region No. 1.

Play starts, but then stops immediately

- The disc is dirty. Clean it.
- Condensation has formed. Allow player to dry out.

No picture

- Turn your TV to its Video Input Channel (go to page 61).
- Turn on the TV.
- Make sure your player is connected properly.

No sound or distorted sound

- Make sure your player is connected properly. Make sure all cables are securely inserted into the appropriate jacks.
- You may need to readjust the *Digital Output* setting (from the *Sound* menu). Go to page 44.
- Turn your TV to its Video Input Channel (go to page 61).
- Sound is muted when you're using search features (fast forward, reverse, frame advance, etc.).

cannot advance through the opening credits and warning information that appear at the beginning of movies because the disc is programmed to prohibit that action.

Invalid icon appears on screen

A feature or action cannot be completed at this time for one of the following reasons:

The disc's software restricts it.

The disc's software doesn't support that feature (e.g., angles).

The feature is not available at the moment.

You've requested a title or chapter number that is out of range.

Picture is distorted

Do you connect your VCR to the DVD Player? Disconnect it, and connect the VCR directly to the TV and the DVD Player directly to the TV.

See chapter 1 for correct setup and connection information.

The disc might be damaged. Try another disc.

Picture is distorted during forward and reverse scan

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Chapter 5: Additional Information

A screen saver appears on the TV

- Your player is equipped with a screen saver that appears on the TV after your player has been idle for several minutes. To make it disappear, press STOP or CLEAR on the remote.

Subtitle and/or audio language is not the one selected from the initial setting

- If the subtitle and/or audio language does not exist on the disc, the initial settings will not be seen/heard. The disc's priority language is selected instead. Set the subtitle and/or audio language manually through the Info Display or the player menu.

The menu is displayed in a foreign language

- The Language menu (Player Menus) is set to that language. Go to *Languages* (In Spanish, shown as Idiomas; in French, as Langues) in the main DVD player menu and select the *Player Menus* option (In Spanish, shown as Menús del Lector; in French, as Menus Lecteur) Highlight the language you prefer, and press OK.

Play doesn't begin

- The rating of the title on the disc exceeds the rating limit set in the Ratings Limits menu. Unlock the player and/or change the rating limit in those menus.

No forward or reverse scan

- Some discs have sections that prohibit rapid scanning, or title and chapter skip.
- If you're trying to skip through the warning information and credits at the beginning of a movie, you won't be able to. This part of the movie is often programmed to prohibit skipping through it.

Desired angle cannot be changed

- Most discs don't have the multi-camera angle system, and some discs only have multiple angles during certain parts of the movie.

Picture is too tall and thin

- Change the aspect ratio: go to the main menu, select *Display*, select *TV Image*. Go to page 40 for more information.

Picture is too short and wide

- Change the aspect ratio: go to the main menu, select *Display*, select *TV Image*. Go to page 40 for more information.

Cannot copy discs to video tape

- You can't record DVD discs onto videocassettes because the discs are encoded with anti-copy protection.

Chapter 5: Additional Information

Disc tray won't open

- The tray lock feature might be set. To unlock the disc tray, press the STOP key on the front of the DVD player and press the ON•OFF button on the remote at the same time.

Disc won't eject

- When you put a disc into the player, the player may take up to 15 seconds to read the disc. You won't be able to eject the disc during this time. Wait 15 seconds and try again.

I forgot my password

- Press and hold the STOP button on the front of the DVD Player, and press the CLEAR button on the remote control at the same time.

Chapter 5: Additional Information

Handling Cautions

- Before connecting other components to this player, be sure to turn all components off.
- Don't move the player while a disc is being played. The disc may get scratched or broken, and the player's internal parts may be damaged.
- Don't put any container filled with liquid or any small metal objects on the player.
- Be careful not to put your hand into the disc tray.
- Don't place anything other than the disc in the disc tray.
- Exterior influences such as lightning and static electricity can affect normal operation of this player. If this occurs, turn the player off and on again with the ON•OFF button, or disconnect and then reconnect the AC power cord to the AC power outlet. The player will operate normally.
- Be sure to remove the disc and turn off the player after use.

Maintenance of Cabinet

For safety reasons, when cleaning the cabinet be sure to disconnect the AC power cord from the AC outlet.

- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

Formation of Condensation

- Due to sharp changes in temperature and humidity, condensation may form if warm air comes in contact with any cold parts inside the player.
- When condensation forms inside the player, the player may not operate correctly. If this occurs, leave the player at room temperature until the inside of the player becomes dry and operational.
- If condensation forms on a disc, wipe the disc with a soft, dry cloth by moving the cloth from the center hole toward the outer edge.

Handling Discs

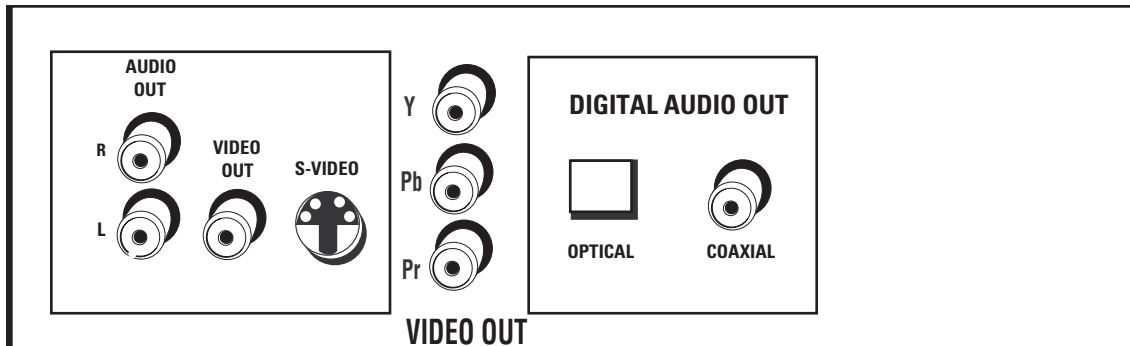
- Don't touch the disc's signal surfaces. Hold by the edges or by one edge and the hole in the center.
- Don't affix labels or adhesive tape to label surfaces. Don't scratch or damage the label.
- Do not use damaged (cracked or warped) discs.

Cleaning Discs

- Dirty discs can cause reduced video and audio performance. Always keep discs clean by wiping them gently with a soft cloth from the inner edge toward the outer perimeter.
- If a disc becomes very dirty, wet a soft cloth in water, wring it out well. Wipe the dirt away gently, and remove any water drops with a dry cloth.
- Do not use record-cleaning sprays or anti-static agents on discs. Also, never clean the discs with benzene, thinner, or other volatile solvents which may cause damage to the disc surface.

Back of the DVD Player

When connecting, make sure you connect Output jacks to Input jacks, Video to Video, Right Audio to Right Audio, etc. A description of each jack follows.



Chapter 5: Additional Information

Description of Jacks (from left to right)

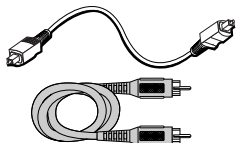
AUDIO OUT – Insert audio cables (left - white, and right - red) to the AUDIO R and L jacks on your DVD Player and to the corresponding Audio Input jacks (left and right) on your TV or receiver.

VIDEO OUT – If you are using color-coded red, yellow and white RCA cables, connect the yellow video cable to this jack and to the Video Input jack on your TV.

DIGITAL AUDIO OUT (OPTICAL and COAXIAL)

Use one of these jacks to connect your DVD Player to a Dolby Digital or DTS receiver or decoder. Some receivers have either the COAXIAL or OPTICAL type of Digital Audio Input jack, and some have both. Under most conditions, optical and coaxial connections work equally well – the only difference is the type of cable you connect to the jack.

Rarely, but sometimes, coaxial digital cables – especially long ones, pick up radio frequency (RF) interference from household appliances, nearby power lines, and/or broadcast towers. If you want to use a less expensive cable, connect a coaxial cable to the COAXIAL jack if your receiver has a COAXIAL input jack..



OPTICAL - connect an optical cable (SPDIF) to the OPTICAL jack on the DVD Player and Digital Audio Optical Input jack on your receiver.

COAXIAL - connect digital cable to this jack and to the Digital Audio Coaxial Input jack on your receiver. the cable is not a black coaxial cable, but an RCA-type cable.

Y, Pb, Pr – Use these jacks to connect to a TV with component video input jacks. Unlike a single video input, component video maintains the video signal as three separate signals through these three jacks. This connection provides optimum quality. To ensure maximum picture quality, use three video-grade cables for the Y, Pb, and Pr connections. It is essential to match the color-coded connectors with a compatible TV.

S-VIDEO OUT – If your TV has an S-VIDEO jack, connect an S-Video cable to the DVD Player's S-VIDEO jack and to the TV's S-Video jack to achieve better picture quality than using the VIDEO jack. S-Video only carries the picture, so you must connect the audio cables, as well.

Y/ON – Turns the player on and off. The indicator lights when you turn off the DVD player.

– Plug headphones in here.

Adjusts volume for headphones

LOSE – Press to open and close the disc tray.

Press to begin playback. During playback, press to pause.

Stops disc play.

verse) – Searches backward on a disc.

st forward) – Searches forward on a disc.

Allows you to move to the beginning of the preceding title, chapter, or track on a disc (in effect, “skipping” the title, chapter, or track).

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Allows you to move to the beginning of the next title, chapter, or track on a disc (in effect, “skipping” the title, chapter,

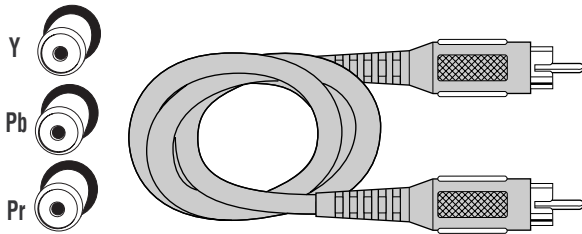


Chapter 5: Additional Information

Explanation of Input Jacks and Cables

This section describes the jacks and cables you can use to make connections (only audio/video cables are packed with your DVD Player – you can purchase cables by calling 1-800-338-0376, details are on page 62, or order online at www.rca.com, or go to your local electronics store). There are several ways to connect your DVD Player to your TV depending upon the cables you have and the jacks that are on the back of your TV.

Different jacks and cables provide a different level of performance. It's important to remember, we're talking about degrees of picture improvement for comparison. If your TV has Component jacks (Y, Pb, Pr), S-VIDEO, and composite video (often color-coded yellow and grouped with Audio Left and Right jacks that are white and red); Component (Y, Pb, Pr), would be considered excellent, S-Video would be very good, and the composite video jack (yellow) would be considered good.



Component Video (Y, Pb, Pr) Jacks and Cables

The Y, Pb, Pr jacks provide optimum picture quality because the video is separated into three signals (two signals are dedicated to the color portion of the image, and the other signal is dedicated to the black and white part of the image).

To ensure maximum picture quality, use three video-grade cables for the connection. There are bundled component video cables sold that are color-coded to match the Y, Pb, Pr jacks (red, green, and blue). Component Video Input jacks are usually found on Digital Televisions (HDTV).

Note: Also, remember to connect the left and right audio cables because the Y, Pb, Pr jacks and cables carry only the picture signal, not the sound.



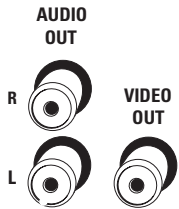
S-VIDEO



S-Video Jacks and Cables

The S-Video (separate video) jack provides better picture quality than a composite video jack (sometimes labeled VIDEO and color-coded yellow) because S-Video keeps the color (chrominance, also called chroma) part of the signal separate from the black and white (luminance) part of the picture. S-Video cables are designed to keep the color information separated. If your TV has an S-VIDEO jack, connect the DVD Player to the TV with an S-Video cable (not provided) for a better quality picture.

Note: Remember to connect the left and right audio cables because the S-Video cable carries only the picture signal, not the sound.

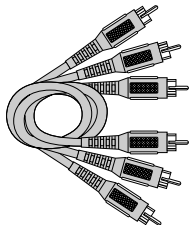


Audio/Video Jacks and Cables (RCA-type)

Audio

These jacks are used to send the audio from the disc you're playing in the DVD Player to the TV. The audio jacks and cables are often color-coded (red for right audio, and white for left audio). You must connect audio cables to the AUDIO L and R jacks on the DVD Player and the corresponding Audio Input Jacks on the TV no matter which Video jack you connect (VIDEO; S-VIDEO; Y, Pb, Pr)

Note: If your component has only one input for audio (mono), connect it to the left (white L/Mono) audio jack on the TV and don't connect the right audio part of the cable.



Video

The basic Video jack (usually color-coded yellow) jack is also referred to as composite video. Composite video doesn't keep color information separated (like S-Video), but it's better than the video quality you get from an RF coaxial cable (the type used to plug the cable feed into a TV).

Chapter 5: Additional Information

Limited Warranty

What your warranty covers:

- Defect in materials or workmanship.

For how long after your purchase:

- 90 days from date of purchase - Unit exchange, which includes parts and labor.
- 91 days to 1 year from date of purchase - Unit exchange, which includes parts only; you pay the labor.
- The warranty for rental units begins with the first rental or 45 days from date of shipment to the rental firm, whichever comes first.

What we will do:

During the initial 90 days: Exchange the DVD unit with a new or, at our option, refurbished unit.

After the 90 days and within one year: Exchange the DVD unit with a new or, at our option, refurbished unit. We will bill you a flat exchange charge to replace a defective unit. This charge covers the labor cost for its repair.

How you get service:

- Call 1-800-311-9263 and have your unit's date of purchase and model/serial number ready. The model/serial number information is on the back of your unit.
- A representative will troubleshoot your problem over the phone.
- If the representative determines that you should receive a replacement unit you will be provided with a Service Request (SR) number and the location of a nearby exchange point if one exists. No returns will be accepted without the SR number.
- Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the product is within the warranty period must be presented to obtain warranty service. For rental firms, proof of first rental is also required.

To receive a replacement unit before you return yours:

Option I:

1. Provide your Discover, MasterCard or Visa account number and expiration date to your phone representative. This is for security purposes only and your account will not be charged at this time.
2. We will send you a replacement unit.

Limited Warranty (continued)

3. If you return the unit to us within 14 days from the date you were provided a SR number, only items not covered by warranty will be charged to your account. If your unit is not received within 14 days, the suggested retail value of the unit will be charged to your credit card. This amount will be credited, less a handling fee, if the unit is subsequently received.

4. Ship your defective unit back to us using the replacement unit's carton. Shipping instructions will be included on the carton along with your SR number which will allow you to easily ship the unit back to us. Make sure you insure your shipment in case of damage or loss. Include with the shipment:

- Evidence of purchase date such as a bill of sale.
- A brief note describing your unit's problem.
- Your name, address and phone number.

Option II:

1. For a fee, we will send a replacement unit to our exchange point.

2. The exchange location will notify you of its arrival.

3. Take your unit and evidence of purchase date, such as a bill of sale, to the exchange location and you will be provided the new or refurbished unit. Please retain all accessories such as the remote control hand unit.

4. If the repairs are covered by your warranty, you will not be billed.

Thomson assumes no responsibility for warranty shipments from the customer to the factory if not shipped in the manner prescribed by Thomson. Return transportation, storage, handling and insurance costs are your responsibility. We accept no responsibility in case of damage or loss.

To receive a replacement unit after we have received your unit:

- Write the SR number on the outside of the carton used to return the unit. Make sure you insure your shipment in case of damage or loss.
- Carefully pack the unit using the original box and packing material if possible. Please retain all accessories that were included with your unit such as the remote control hand unit.
- Include with the shipment:
 1. Evidence of purchase date, such as a bill of sale, to verify your unit's warranty eligibility.
 2. A brief note describing your unit's problem.
 3. Your name, address and phone number.

Chapter 5: Additional Information

- The representative will advise the address to mail a cashier's check or money order for payment if there are any out of warranty labor or parts charges, and you elect not to use your credit card.
- After we receive your product, a new or refurbished unit will be shipped to you.

What your warranty does not cover:

- Acts of nature, such as but not limited to lightning damage.
- Adjustment of customer controls.
- Damage from misuse or neglect.
- A unit that has been modified or incorporated into other products or is used for institutional or other commercial purposes.
- Batteries.
- Units purchased or serviced outside the U.S.A.
- Shipping damage if the unit was not packed and shipped in the manner prescribed by Thomson.
- Storage fees may be charged by the exchange point if you fail to pickup the replacement unit in a timely manner.

Product Registration:

- Please complete and mail the Product Registration Card packed with your DVD product. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

Limitation of Warranty:

- THE WARRANTY STATED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED (INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE HEREBY DISCLAIMED. NO VERBAL OR WRITTEN INFORMATION GIVEN BY THOMSON MULTIMEDIA INC., ITS AGENTS OR EMPLOYEES SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY.
- REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. THOMSON MULTIMEDIA INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. THIS DISCLAIMER OF WARRANTIES AND LIMITED WARRANTY ARE GOVERNED BY THE LAWS OF THE STATE OF INDIANA. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

How state law relates to warranty:

- Some states do not allow the exclusion nor limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.
- This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

If you purchased your product outside the United States:

- This warranty does not apply. See your dealer for warranty information.

Chapter 5: Additional Information

How to find your TV's Video Input Channel

In order to see what's playing on your DVD Player, you need to tune the TV to the Video Input Channel that corresponds to the jacks you used to hook up the recorder to the TV. The Video Input Channel(s) varies for different brands and different models of TVs. Below are some things to try.

- Consult the Owner's Manual that came with your TV.
- If you can't find the information in the manual, or can't find the manual, review the following list of ways to access Video Input Channels on TVs.
- There might be a button on the TV's remote control that accesses the Video Input Channel (see table below for examples).
- You might select the Video Input Channel from the TV's menu system.
- You might tune to it by pressing a specific channel number (see table below)
- Press the Channel up and/or down buttons on the TV's remote control (sometimes the Video Input Channel is stored in the channel list).

Video Input Channel Variations

<u>Button/Switch on the TV</u>	<u>Button on the TV remote</u>		<u>Channel Number</u>	
VIDEO	VID1	S-VID	00	93
SIGNAL	LINE	INPUT	90	VID 1
VID 1	VID	SOURCE	91	VID 2
VID 2	VIDEO	AUX	92	INPUT

Chapter 5: Additional Information

Accessory Information

There are various accessories available to complement your DVD Player. Prices are subject to change without notice. All accessories are subject to availability.

A shipping and handling fee will be charged upon ordering, and we are required by law to collect the appropriate sales tax for each individual state, country, and locality to which the merchandise is being sent.

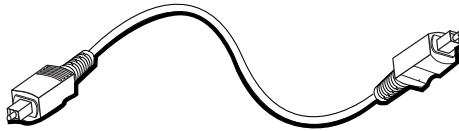
How to Order

To place an order by phone, have your Visa, MasterCard, or Discover Card ready and call the toll-free number listed below.

Use this number only to place an order for accessory items.

1-800-338-0376

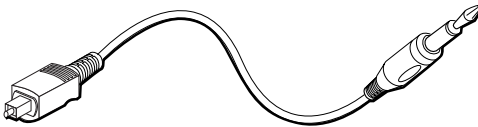
You can buy some accessories on-line at www.rca.com



Optical Plug to Optical Plug for Optical Audio connection to a compatible receiver.

3 feet (part number DV3); price \$15.95

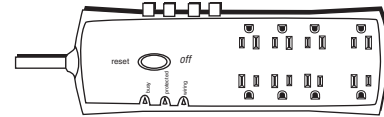
6 feet (part number DV6); price \$19.95



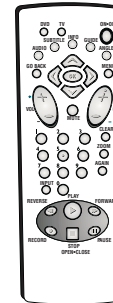
Optical Plug to Mini Plug

3 feet (part number DV3M); price \$15.95

6 feet (part number DV6M); price \$19.95



Surge Protector (part number SCTV 160), price \$49.95



Remote Control (RCR110DA1) part number 257221

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Thomson multimedia Inc.

10330 North Meridian Street
Indianapolis, IN 46290

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TOCOM 1590940A


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