RCA

DVD/VCR
User's Guide

Changing Entertainment. Again.

Important Information

Product Registration

Please fill out the product registration card (packed separately) and return it immediately. For U.S. customers: You RCA Consumer Electronics product may also be registered at www.rca.com/productregistration. Registering this product allows us to contact you if needed.

Product Information

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 product.

Model No. _____

Serial No. _____

Purchase Date: _____

Dealer/Address/Phone: _____

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.

Note:

This DVD/VCR 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/VCR player, this player cannot play the disc. The Region number for this DVD/VCR player is Region No 1.

CLASS 1 LASER PRODUCT

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.

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Things to Consider Before You Connect

Protect Against Power Surges

- Connect all components before you plug any of their power cords into the wall outlet.
- Turn off the TV and/or components before you connect or disconnect any cables.
- Make sure all antennas and cables are properly grounded. Refer to the Important Safeguards sheet packed with your DVD/VCR.

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 so the heated air from it won't flow around other components.

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).

Connections and Setup
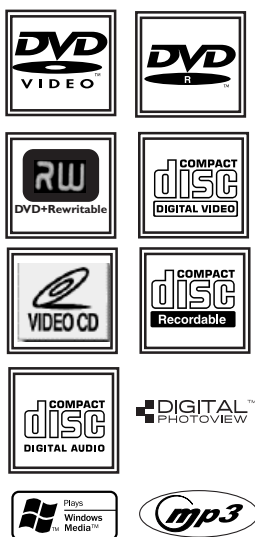
Compatible Discs

This DVD player is capable of playing the following types of discs: DVDs, audio CDs, Video CDs, CDs with mp3 files, WMA files (Windows Media Audio), and CDs with JPEG files on them . 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, discs recorded using other broadcast standards (i.e. PAL or SECAM), or CD-G discs.

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

Cables Needed to Connect Components to Your DVD/VCR

The pictures below show the cables needed for the connections represented in this book.

Note: Audio/Video cables (A/V cables for short) are usually sold as a bundled set, but the connection pictures in this book show each cable separately for better visibility.
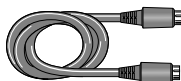
RF coaxial cable   S-Video cable   Optical digital audio cable   Audio/Video cables
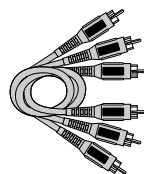
Component Video cables

Coaxial digital audio cable

TV (BACK PANEL)

DVD/VCR PLAYER

CABLE OR
OFF-AIR
SIGNAL
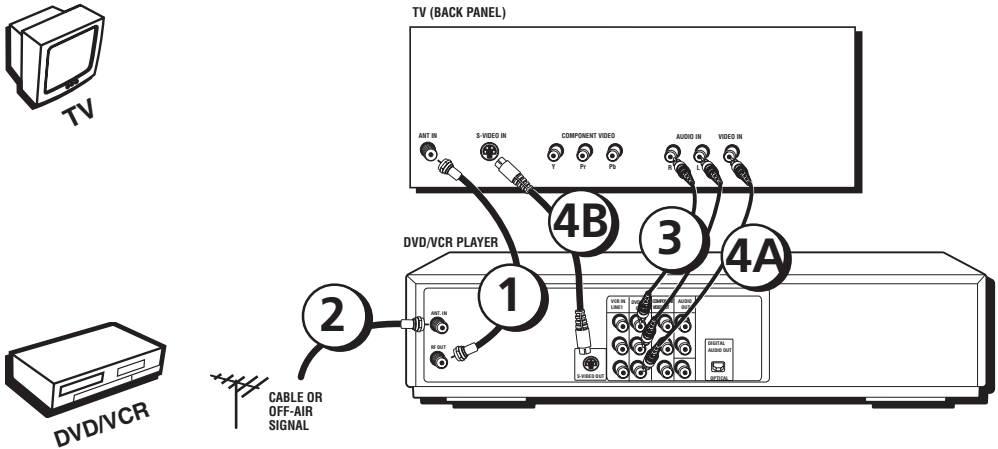
*Note: For a more detailed explanation of the jacks on the back
of the DVD/VCR, go to page 55.*

DVD/VCR + TV

1. Connect a coaxial cable to the Cable/Antenna jack on your TV (sometimes labeled ANT IN) and to the TV jack on your DVD/VCR player.

2. Connect the coaxial cable from your cable outlet, cable box, or antenna to the ANT IN jack on your DVD/VCR.

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

4. Connect the video cable.

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

   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/VCR player and to the S-VIDEO IN jack on your TV. This connection is only for DVD signal. For the VCR signal, you must also connect the standard video cable.

   C. Component video (optional, connection not pictured) – If your TV has component video jacks (Y, Pb, Pr), connect component video cables (not provided) to the COMPONENT OUT jacks on the DVD/VCR player for the best picture quality. This connection is only for DVD signal. For the VCR signal, you must also connect the standard video cable.

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

Connections and Setup

DVD/VCR + 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 jacks. For more information, go to page 45.

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/VCR.

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/VCR. You must also set the *Digital Output* setting in the *Sound* menu (go to page 45).

   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.

   If you want to use a less expensive cable, connect a coaxial cable to the COAXIAL 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 would rather use the OPTICAL jack, connect an optical digital cable to the DVD/VCR 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/VCR player, and to the Video Input jack on your TV (sometimes labeled VIDEO IN).

   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/VCR player and to the S-VIDEO jack on your TV. This connection is only for DVD signal. For the VCR signal, you must also connect the standard video cable.

   C. Component video (optional, connection not pictured) – If your TV has component video jacks (Y, Pb, Pr), connect component video cables (not provided) to the COMPONENT OUT jacks on the DVD/VCR player for the best picture quality. This connection is only for DVD signal. For the VCR signal, you must also connect the standard video cable.

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

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. ® 1992-1997 Dolby Laboratories, Inc. All rights reserved.

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

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 or VCR Mode

When you want the remote to operate the DVD/VCR player, point the remote at the DVD/VCR, 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.

Turn on the TV and DVD/VCR

1. Turn on your TV and tune it to the correct Video Input Channel.

   • If you used a coaxial cable to connect your DVD/VCR to your TV, tune the TV to channel 3. Your TV must be set to channel 3 the first time you set up the DVD/VCR. See page 37 for instructions on how to change the ouput channel once you have started setup.

   • If you used audio/video cables to connect your DVD/VCR, tune the the TV to its Video Input Channel (see page 62 for help).

2. Press the DVD or VCR button to turn on the DVD/VCR.

   • For DVD functions, press the DVD button.

   • For VCR functions, press the VCR button.
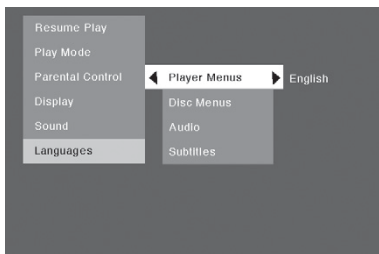
The *Languages* menu.

3. The first time you turn on your DVD/VCR, the *Languages* menu appears.

If you want the DVD/VCR 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.

Using the Remote Control to Choose On–screen Menu Items

Press the MENU button to bring up the Main Menu. To select an on-screen item, press the number button on the remote control that matches the on-screen number. Selecting a menu item can take you to another menu, activate a choice, or activate a data entry field (such as the hour field in the *CLOCK* menu).

If a number doesn't appear next to an on-screen menu, use the arrow buttons to highlight an item on the screen, and press OK to select the highlighted item.

```
  🕐  CLOCK
 REC  PROGRAM
  📺  TUNING
 78   SETUP
 ▲▼ SELECT  ENTER  ENTER
 TO EXIT PRESS  MENU
```

This is the VCR Main menu.

```
 78
  FUNCTION OSD :         ON
  LANGUAGE SELECT:ENGLISH
  AUDIO MODE:          HI-FI
  BROADCAST TYPE:  STEREO
  AUDIO OUTPUT:      STEREO

 ▲▼ SELECT   ◄► ADJUST
 TO EXIT PRESS  MENU
```

Complete the VCR setup

To set up the VCR, you'll need to set a few important menu items the first time you turn on the unit.
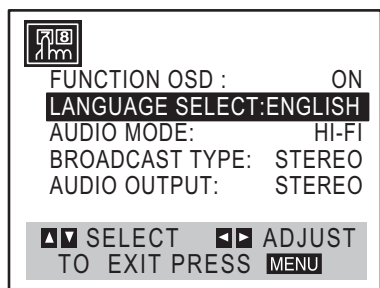
Language Select

The language setting determines the language in which the on-screen displays and menus appear. You can choose from *English, Spanish*, or *French*. The default is English. If you want to choose a different language, follow the steps below.

1. Press MENU to display the VCR Main Menu.

2. Press the down arrow button until *SETUP* is highlighted, and press OK (the Setup menu appears).

3. Press the down arrow button until *LANGUAGE SELECT: ENGLISH* is highlighted, and press the right arrow button until the desired language is shown.

4. When finished, press MENU to exit.

```
  [icon]

  AUTO CHANNEL SET
  TUNING BAND:          TV
  CH.  ADD/DEL: CH. 2   ADD
  SOURCE  SELECT:    TUNER

  ▲▼ SELECT    ◄► ADJUST
  TO  EXIT  PRESS  MENU
```
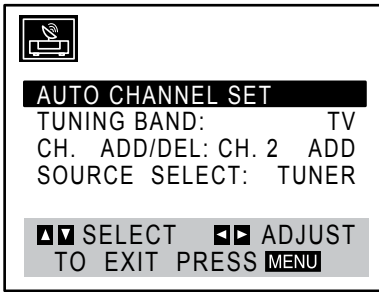
Auto Channel Search

Before you can watch channels through the VCR, you must set the type of signal you have (cable or TV) and search for all available channels.

1. Press MENU to display the VCR Main Menu.

2. Press the down arrow button until *TUNING* is highlighted, and press OK (the Tuning menu appears).

3. Press the down arrow button until *TUNING BAND:* is highlighted, and press the right arrow button until the type of signal you have is shown (*CATV* or *TV*).

4. Press the up arrow button until *AUTO CHANNEL SET* is highlighted, and press the right arrow button (auto channel search starts). This may take several seconds.

When finished, your available channels appear. To add or delete any channels, see page 36.

Time and Date

The VCR gives you two ways to set the time and date: the Auto Clock Set feature or manually.

Auto Clock Set

```
  [icon]  MONTH :  JANUARY
          DAY   :   1  WED
          YEAR  :  2003
          TIME  :  12 : 00  AM
  AUTO CLOCK SET :    ON
  DAYLIGHT SAVING: AUTO
  TIME ZONE:          AUTO

  ▲▼ SELECT    ◄► ADJUST
  TO  EXIT  PRESS  MENU
```
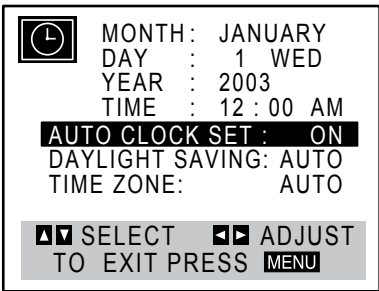
Auto Clock Set searches for day/time information automatically through the broadcast signal.

1. Press MENU to display the VCR Main Menu.

2. *CLOCK* should already be highlighted, so press OK (the Clock menu appears).

3. *AUTO CLOCK SET:* should already be set to *ON*. If it's not, use the arrow buttons to highlight it and then press the right arrow button to choose *ON*.

4. Press the down arrow button until *DAYLIGHT SAVING:* is highlighted, and press the right arrow button until the desired setting is shown (*AUTO, ON,* or *OFF*).

   • If you choose *AUTO*, the VCR sets the clock using the DST information from the broadcast signal.

   • If you choose *ON*, the VCR adjusts the clock when the Daylight Savings Time begins or ends.

5. Press the down arrow button to highlight *TIME ZONE*, and press the right arrow button until your time zone is shown (*AUTO, EASTERN, CENTRAL, MOUNTAIN, PACIFIC, ALASKA*, or *HAWAII*).

Note: If Auto Clock Set receives the wrong time or date information, you may need to set the clock manually.

Connections and Setup

- If you choose *AUTO*, the VCR sets the time zone using information from the broadcast signal.

6. When finished, press MENU to exit.

7. Turn off the VCR to automatically set the clock.

```
┌─────────────────────────────────┐
│ [🕐]  MONTH:  JULY              │
│       DAY   :   5 SAT           │
│       YEAR  : 2003              │
│       TIME  :   2 : 15  AM      │
│   AUTO CLOCK SET :   OFF        │
│   DAYLIGHT SAVING:    ON        │
│   TIME ZONE:      EASTERN       │
│                                 │
│   ▲▼ SELECT   ◄► ADJUST         │
│   TO  EXIT PRESS  MENU          │
└─────────────────────────────────┘
```
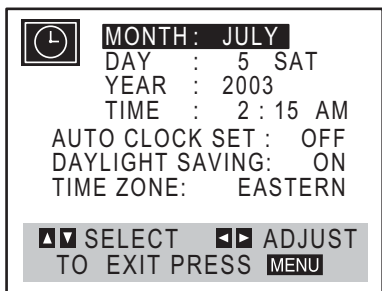
Manual Clock Set

1. Press MENU to display the VCR Main Menu.

2. *CLOCK* should already be highlighted, so press OK (the Clock menu appears).

3. *MONTH:* should already be highlighted. Press the right arrow button to set the month.

4. Press the down arrow button to highlight *DAY:* , and press the right arrow button until the correct day is shown. The day of the week displays automatically.

5. Press the down arrow button to highlight *YEAR:* , and press the right arrow button until the correct year is shown.

6. Press the down arrow button to highlight *TIME:* , and press the right arrow button until the correct time is shown.

7. Press the down arrow button until *DAYLIGHT SAVING:* is highlighted, and press the right arrow button until the desired setting is shown (*ON,* or *OFF*).

   - If you choose *ON*, the VCR adjusts the clock when the Daylight Savings Time begins or ends.

   - Remember that *AUTO CLOCK SET* must be set to *OFF* and *DAYLIGHT SAVING and TIME ZONE* can't be set to AUTO when setting the time manually. Otherwise, the time will be reset when the VCR is turned off.

Next Steps

This chapter is dedicated to connecting your DVD/VCR 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 17). It explains playback features of DVDs, Audio CDs, Video CDs, discs that contain MP3 files.

The VCR features are described in Chapter 4, including how to record and set up the VCR (page 29). The DVD/VCR player's menu system is outlined in Chapter 5 (page 38), and Chapter 6 contains troubleshooting assistance, your Limited Warranty, and additional information about your DVD/VCR player.

What to Expect

DVD and VCR Modes

As you familiarize yourself with this product, keep in mind that you need to tell the remote which part of the unit you want to operate — the DVD part of the unit or the VCR part. To operate the DVD part of the DVD/VCR, press the DVD button on the remote. To operate the VCR part, press the VCR button. (You can also change modes on the front of the unit by pressing the DVD/VCR button.)

Menu Systems

Since this product combines a DVD player with a VCR, the menu systems are separate. The settings in one menu system don't affect the other. For example, you have to set the menu language for the VCR menu and then set the language for the DVD menu.

User's Guide

In this user's guide, the product is generally referred to as a DVD/VCR. You might see features referenced separately as DVD or VCR features, or you might see them combined, depending on the feature.

Chapter 2: Using the Remote Control

Button Descriptions for DVD and VCR Modes

In addition to operating your DVD/VCR, the remote that came with it will operate most RCA, GE, and Proscan TVs. However, this section only describes the buttons on the remote that you will use with your DVD/VCR.

For descriptions of remote control buttons to be used with your TV (RCA, GE, and Proscan only), go to the next page.
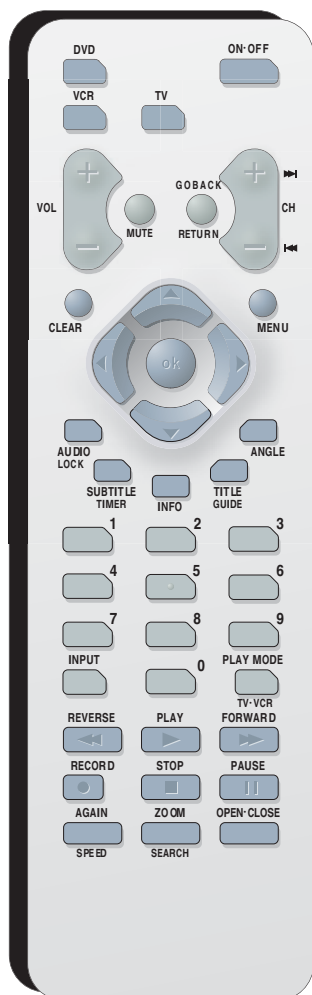
DVD and VCR function buttons listed alphabetically

(0-9) Number buttons Use to input information such as chapter numbers, track numbers, or to make selections on some menu screens. In VCR mode, enter channel numbers.

AGAIN Quick reverse - replays the last few seconds of a DVD movie.

ANGLE Accesses the Camera Angle icon of DVD disc Info Display. Also used to rotate JPEG files 90°.

Arrow buttons Use the arrows to navigate through the menu screens and make selections.

AUDIO Accesses the Audio icon in the Info Display that enables you to play a disc in a different language.

CH+/- In VCR mode, selects next higher or lower channel in the channel list and adjusts tracking. In DVD mode, selects the next/preceding chapter or track when playing a disc.

CLEAR Removes on-screen menus and displays or clears menus. In VCR mode, resets the time counter.

DVD Turns on the DVD/VCR and puts the remote in DVD mode. Likewise, you can change to the VCR mode by pressing the VCR button.

FORWARD Fast forwards the tape when the VCR is in stop mode. In DVD and VCR mode, searches forward if pressed during playback. In DVD mode, during play-pause mode, this button starts slow-motion advance and each press of the button during slow-motion advance increases the speed incrementally.

GO BACK/RETURN Goes back to the previous menu.

INFO Shows the status displays on screen of your RCA, GE, or Proscan TV, or DVD/VCR (whichever component the remote is set to control). Displays the on-screen Info Display when playing DVD discs.

INPUT In VCR or TV mode, selects between the Video Input Channels and the tuner. Video Input Channel refers to the signal coming from the component connected to audio/video input jacks on the DVD/VCR or TV.

LOCK Locks the buttons on the front of the unit.

MENU Displays the on-screen menu system. (To see the VCR Main menu, press VCR and then MENU. To see the DVD Main menu, press DVD and then MENU).

OK Selects the setting or menu that is highlighted.

ON•OFF Turns DVD/VCR on or off.

OPEN•CLOSE In DVD mode, opens and closes disc tray. In VCR mode, ejects a tape.

PAUSE Pauses playback or recording modes (in VCR mode). Press PAUSE again to return to active playback or recording. When playing DVD discs, press two times to search frame by frame.

PLAY Plays a tape or DVD disc.

PLAY MODE In DVD mode, accesses Play Mode icon in the Info Display.

RECORD In VCR mode, starts record mode on tapes with the safety tab intact. Press repeatedly to set a recording duration for the Express Recording feature.

REVERSE Rewinds the tape when the VCR is in stop mode. In DVD and VCR mode, searches backward through a tape or disc during playback mode. In DVD mode, starts slow motion playback during play-pause mode with each press of the button decreasing the slow-motion speed.

SEARCH In VCR mode, accesses Index search feature.

SPEED In VCR mode, selects tape speed.

STOP Stops the current DVD/VCR function (record, playback, rewind, etc). Also opens/closes the disc tray when you press and hold. In order to see the DVD player menu, press the STOP button.

SUBTITLE In DVD mode, accesses the Subtitle part of the on-screen Info Display, and turns Subtitles on and off (if subtitles are available on the disc you are playing).

TIMER In VCR mode, accesses the timer recording menu.

TITLE/GUIDE In DVD mode, accesses the DVD disc guide (if available).

TV•VCR Functions as a TV/VCR button in VCR mode

VCR Turns on the DVD/VCR and puts the remote control in VCR mode. Likewise, you can change to DVD mode by pressing the DVD button.

ZOOM In DVD mode, 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.

Button description for TV function buttons

This remote operates most TVs that carry the RCA, GE, or Proscan brand. The following list (in alphabetical order) provides basic information about how these buttons will operate when in TV mode.

(0–9) Number buttons Enter channel numbers.

CH +/– Changes channels.

GO BACK/RETURN Goes back to the last channel the TV was tuned to.

GUIDE Accesses the GUIDE Plus+ programming guide if the TV has that feature.

INPUT Tunes to the TV's Video Input Channel(s). For more information about Video Input Channels, go to page 62.

Using the Remote Control

MUTE Lowers the volume to minimum level. Press again to restore volume.

ON•OFF Turns off a compatible RCA, GE, or Proscan TV.

TV Turns on a compatible RCA, GE, or Proscan TV and puts the remote in TV mode.

VOL +/– Decreases and increases volume level.

Using the INPUT Button

Use the INPUT button to scroll through the available Video Input Channels *(LINE1* and *LINE2)* and regular broadcast signals. The Video Input Channels allow you to view images from a device connected to the DVD/VCR (like a camcorder).

1. Press the remote control's VCR button to enter VCR mode. Make sure that the DVD/VCR is turned ON.

2. Press the remote control's INPUT button to tune to the Video Input Channel. *LINE1* represents the rear A/V jacks and *LINE2* represents the front A/V jacks).

3. To tune back to the broadcast signal you were previously watching through the DVD/VCR, press the INPUT button again.
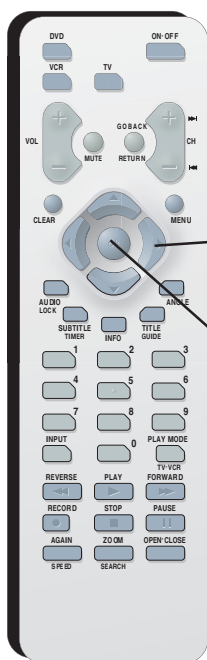
Using the remote to Navigate through On-Screen Menus

No matter which on-screen display you're using (the DVD player's menu, the Info Display that appears during playback, the VCR Main menu, or a disc's menu), you'll use the same buttons on the remote control to move through the on-screen display: the four arrow buttons and the OK button. Use the arrow buttons on the remote to move through on-screen menus in the direction of the arrow button (to go right, press the right arrow button; to move left, press the left arrow button, etc.). The arrow buttons are used to highlight an option. Once highlighted, press the OK button to select that menu option.

Arrow buttons

OK button

Use the arrow buttons to highlight on-screen options. Use the OK button to select an option that is highlighted.
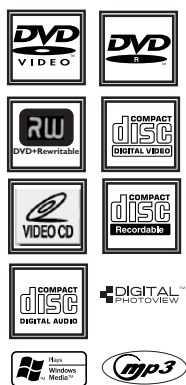
This DVD player is capable of playing the following types of discs: DVDs, audio CDs, Video CDs, CDs with mp3 files, WMA files (Windows Media Audio), and CDs with JPEG files on them. Before you put a disc in the player, make sure it is compatible.

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

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

Regional Coding

Both the DVD/VCR 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.

ALL means all regions. Other regions are: 2: Europe, the Middle East, Rep. of South Africa, Japan - 3: Southeast Asia,Taiwan - 4: Central America, South America, Australia, Mexico, New Zealand - 5: Russian Federation, Africa (except Egypt and Rep. of South Africa), India, Pakistan - 6: China.

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.

Playing Discs

This is an example of a one-sided disc.

This is an example of a two-sided disc – the title is usually in the center of the disc.

To Load and Play a DVD Disc

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

1. If necessary, tune the TV to its Video Input Channel (if you need more information, go to page 62).

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/VCR 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/VCR picks up where you left off unless the disc is removed or the unit is unplugged, or if you press the STOP button twice.

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/VCR 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.

Note: If you pause a DVD disc or VCD disc for a long period of time, the video will disappear from the screen. Press any button on the remote to revert to the place on the disc where you paused playback.

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 the slowest speed). To resume normal playback, press PLAY.

Playback Options

Many of your DVD/VCR's playback features are accessed through the Info Display (described on pages 20 through 26). Additionally, with some discs you can access playback features directly from the remote control.

Chapter Advance

While a disc is playing, you can skip forward or backward a chapter or track at a time by pressing the CH+ and/or CH- buttons (also labeled ▶▶I and I◀◀).

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). To resume normal playback, press PLAY.

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. This feature is called pan and scan.

Playing Discs

Using the On-Screen Info Display

The Info Display appears across the top of the screen when you press the INFO button on the remote while you're playing a disc. Use the left and right arrow buttons to highlight different icons. Once an icon is highlighted, follow the on-screen instructions, and use the up and down buttons on the remote to scroll through the options.

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. If one of the icons is "grayed out," that 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.

DVD Disc Info Display

Time display   Title   Chapter   Subtitles   Audio   Play Mode   Bookmark   Angle

01:49:37 ▶ PLAY   T:2   C:25

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

Audio CD Info Display

Time display   Track   Play Mode   Bookmark

01:49:37 ▶ PLAY   T:1
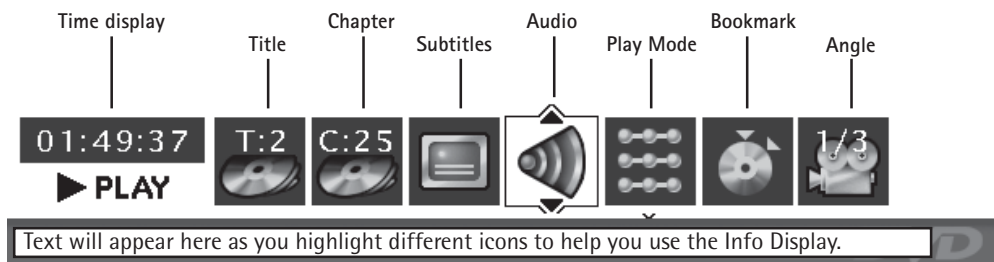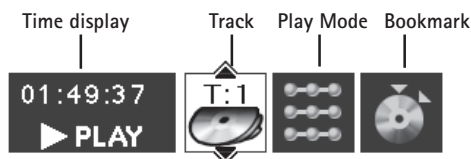
Video CD (VCD) Disc Info Display

Time display   Track   PlayBack   Audio   Play Mode

01:49:37 ▶ PLAY   T:17   PBC
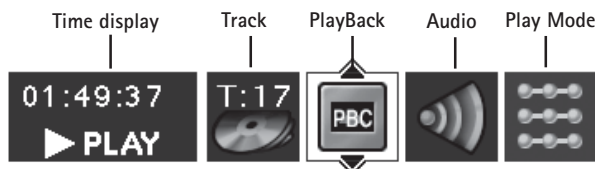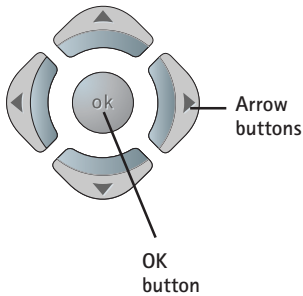
How to Navigate the Info Display

To access the Info Display, press the INFO button on the remote while you're playing a disc.

Use the left and right arrow buttons on the remote to highlight different icons. Once an icon is highlighted, follow the on-screen instructions, and use the up or down arrow buttons to scroll through options.

Arrow buttons

OK button
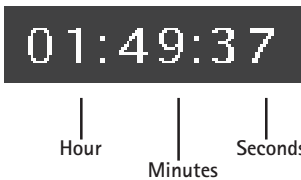
Time Display (all Info Displays)

01:49:37

Hour   Seconds
      Minutes

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. You can skip right to any scene.

Highlight the Time Display icon, and use the number buttons on the remote to enter the elapsed time you want to go to. You must use two digits for each field. For example, if you enter 01:35:12, playback will start 1 hour, 35 minutes, and 12 seconds into the title.

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

Title/Track Icon (all Info Displays)

T:1

Some DVD discs contain more than one title. Each title is divided into chapters. CDs are divided into separate tracks. To select a title/track:

Highlight the Title/Track icon, and use the number buttons on the remote to enter the title number (or track number), and press OK, or press the up or down arrow buttons to scroll through the titles/tracks.

Note: Many discs only have one title.

Chapter Icon (DVD Info Display)

C:12

A title can be divided into individual chapters (similar to tracks on a CD). To skip to a specific chapter:

Highlight the Chapter icon, and use the number buttons on the remote to enter the chapter number and press OK, or press the up or down arrow buttons to scroll through the chapters.

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.

Subtitles Icon (DVD Info Display)

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

Highlight the Subtitle icon, and press the up or down arrow buttons to scroll through the available subtitle languages (the subtitle language options appear in the box at the bottom of the Info Display), then press OK.

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.

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. During playback, press MENU to access the disc's menu.

Audio Language Icon (DVD Info Display)

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

Highlight the Audio icon, and press the up or down arrow buttons to scroll through the available languages (the language options appear in the box at the bottom of the Info Display), then press OK.

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.

Shortcut

Press the AUDIO button, while the disc is playing (the Info Display appears with the Audio icon already highlighted).

Play Mode Icon (DVD, CD Info Displays)

The Play Mode options available depend upon the type of disc you're playing. The default play mode (standard play) plays the disc's contents in the order in which the disc was created (i.e., track 1 plays first, followed by track 2, etc.).

Play Mode Options

Repeat: DVDs, Audio CDs, VCDs and mp3s.

Random Play: Audio CDs and mp3s (tracks play in random order).

Program Play: DVDs, Audio CDs and mp3s (create your own playlist by defining the order of the tracks in the DVD Player's Play Mode menu—page 38.)

Introscan: Audio CDs. Plays the first few seconds of each track.

Repeat

By default the Repeat feature is Off. The options available depend upon the type of disc you're playing.

- With DVD discs you can repeat the title, chapter, or use AB repeat.
- With Audio CDs you can repeat the disc, a track, or create a program that plays repeatedly.
- With mp3s you can repeat the disc, a track, or create a program that plays repeatedly.
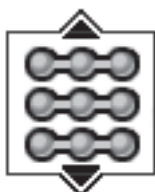
Repeating Discs, Titles, Chapters, or Tracks

Highlight the Play Mode icon, and press the up or down arrow buttons to scroll through the available play mode options (the options appear in the box at the bottom of the Info Display), then press OK.

To turn off the Repeat feature, press the up or down arrow button repeatedly until *Play Mode: Standard* appears.

Playing Discs

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. With the Play Mode icon highlighted, press the up or down arrow button until *Repeat Mode: AB* appears. 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.

2. 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).

3. To turn off the Repeat feature, press the up arrow button on the remote until *Play Mode: Standard* appears at the bottom of the Info Display. Press OK.

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

Random (Audio CD and mp3)

1. With the Play Mode icon highlighted in the Info Display, press down arrow button until *Play Mode: Random* appears in the text at the bottom of the Info Display. Press OK (the tracks start playing in random order).

To switch back to Standard Playback, press the up or down arrow button repeatedly until *Play Mode: Standard* appears in the text bar underneath the Info Display icons.

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

Program Play (DVD and Audio CD Info Displays)

The Program Play Mode (DVD, Audio CD and mp3) is only available after you set up a program through the DVD Player's menu. Go to page 38 for instructions.

IntroScan (Audio CD Info Display)

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

After you've highlighted the Play Mode icon, press the up or down arrow button on the remote until *Play Mode: Introscan* appears. If necessary, press the OK button (the first few seconds of each track starts playing).

- After Introscan previews all of the tracks, it stops.

- If you want to play the track that Introscan is previewing, press the PLAY button (the current track starts playing in its entirety).

- To stop IntroScan, press the STOP button (the main menu appears).

Bookmark Icon (DVD Info Display)

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.

Creating a Bookmark

1. Highlight the Bookmark icon on the Info Display. Press OK (the Bookmark Banner appears).

2. Highlight an unused bookmark. 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.

▶🗑 00:06:18 C2	▶🗑 00:28:04 C4	▶🗑 03:24:09 C24
🔖 Unmarked	▶🗑 02:12:56 C12	🔖 Unmarked
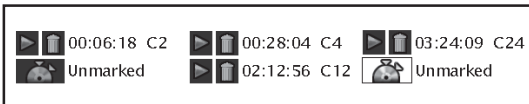
This is the Bookmark Banner.

▶🗑 00:06:18 C2
🔖 Unmarked
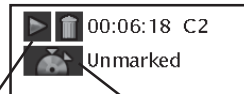
Play arrow icon   Unused bookmark icon

3. 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).

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 (DVD Info Display)

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 up or down arrow button again to go to the second camera angle. Press the arrow buttons again to go to the third angle, etc.

3. To resume normal playback, scroll through the camera angles until you get to *Angle Off*.

PBC – Playback Control (Video CD Info Display)

Playback Control functions allow you to interact with the system via menus, search functions, or other typical computer-like operations. Moreover, still pictures of high resolution can be played if they are included on the disc.

1. While the Video CD is playing, press INFO (the Info Display appears).

2. Highlight the PBC icon. Press the up or down arrow buttons to toggle between on and off.

Playing mp3 and WMA music files and displaying JPEG files

mp3 is an audio file format which compresses recorded music. It was developed by Fraunhofer Gesellschaft in collaboration with Thomson Inc. The main advantage of the mp3 format is that it means CD-quality music tracks can be stored on a personal computer in user-friendly, compressed files.

WMA (Windows Media Audio) is another audio file format developed by Microsoft.

JPEG files are image files.

Note: The time taken for the contents of the disc to be displayed varies according to the size and number of JPEG files actually on the disc. If nothing is displayed after a few minutes, it is likely that certain files are too large. Try reducing the files' resolution and write another disc.

Displaying JPEG files or playing mp3 or WMA files

Before inserting a disc, check that it is compatible with the player.

1. Open the tray by pressing the OPEN•CLOSE button.

2. Place the disc with the printed side facing up.

3. If the *AutoPlay* option in the *Play Mode* menu is enabled (see page 38), the disc's contents are displayed, otherwise press the PLAY button to display them.
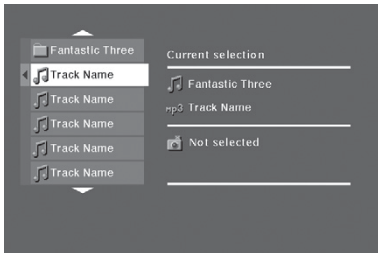
Example of folder list and mp3 files.
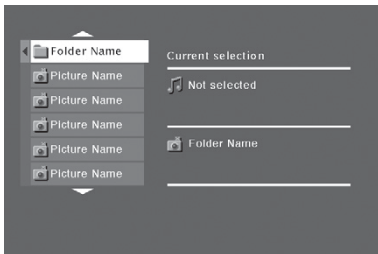
Example of folder list and jpeg files.

4. Select a folder using the up and down arrow buttons on the remote control, then press OK to display the list of files or press PLAY to start playing all the files contained in the folder.

5. Select a file using the arrow buttons, then press PLAY to start playback.

Note: When a music file (mp3 or WMA) is selected for more than two seconds, the player lets you hear the first few seconds of the song.

- mp3 or WMA file: the player begins by playing the selected file, then all the files and subfolders contained in the same folder. The player then plays the contents of the folders at the same level as the folder containing the file selected at the start.

Note: While listening you can use the ◄◄ or ►► buttons to go back to the previous track or go on to the next one and press the MENU button to display the disc's contents.

- JPEG file: the player starts the slide show with the JPEG file you have selected and proceeds to display all the JPEG files in the same folder, then all the JPEG files in the subfolders located in the same folder.

Note: During the slide show you can use the ANGLE button to rotate the picture, the ZOOM button to magnify the picture, the ◄◄ or ►► buttons to go back to the previous picture or go on to the next one and the MENU button to interrupt the slide show and display the disc's contents.

Chapter 3   **27**

6. Press the INFO button to display the Info menu during playback.

- mp3 file: press the AUDIO or PLAY MODE button several times to select a playback mode (standard, program, random, repeat).

- JPEG file: press the down arrow button to select a projection speed.

7. When the player has played all the files the music or slide show stops and the disc's contents appear.

8. Press STOP to end playback.

Playing JPEG and mp3 music files at the same time

You can display JPEG files while listening to mp3 music files recorded on the same disc. It is not possible to play JPEG and WMA music files at the same time.

1. Insert the disc containing the two types of file in the player.

2. Select an image file using the arrow buttons, then press **OK** to confirm your selection. The name of the folder where the file is located and the name of the file appear on the right in the "Current selection" section.

3. Then select an mp3 music file using the arrow buttons, then press **OK** to confirm your selection. The name of the folder where the file is located and the name of the file appear on the right in the "Current selection" section.

Note: To delete your selection, press the CLEAR button.

4. Press the PLAY button to start playing the two files at the same time.

Note: You can also select a folder containing JPEG and mp3 files using the arrow buttons, then press PLAY. In this case, the player starts playing the pictures and music at the same time beginning with the first file of each type.

- The player starts the slide show with the JPEG file selected and proceeds by displaying all the JPEG files in the same folder, and then all the JPEG files in the subfolders located in the same folder. At the same time, the player plays the selected mp3 file, then all the mp3 files in the same folder, and finally the mp3 files contained in the folders located at the same level as the folder containing the file selected at the start.

Note: If the mp3 files are finished playing before the end of the slide show, the player starts playing the mp3 files again until the slide show ends.

5. Press INFO to access the Info menu during simultaneous playback. You can change the slide show's projection speed.

6. During simultaneous playback you can use the ANGLE button to rotate the picture 90°. Use the ◄◄ or ►►│ buttons to go back to the previous picture or go on to the next one.

VCR Basics

Once your initial settings are complete, you can begin using your DVD/VCR. In order to begin, you must first understand some basic concepts.

Playing a tape

1. Tune the TV to your DVD/VCR viewing channel (03, 04, or the Video Input Channel).
2. Insert a tape in the DVD/VCR.

   • Press FORWARD or REVERSE to cue the tape to the desired position during Play mode.

   • To advance the tape 30 seconds at a time during Play mode, press the SEARCH button on the remote control (each time you press SEARCH, 30 seconds is added to the amount of tape that is scanned — up to 5 minutes).

   • Press PLAY (if necessary) to begin tape play.

   • Press PAUSE to stop action. For slow-motion playback, press FORWARD and/or REVERSE (while picture is paused). To move one frame at a time, press FORWARD on the remote (while paused).

   • Press CHANNEL +/- (or CH +/- on the remote) to remove any streaks from the picture, if necessary.

   • Press STOP to stop playback.

Automatic Rewind

The DVD/VCR automatically rewinds the tape if it reaches the end of the tape during playback. While rewinding, you can press the ON•OFF button (the DVD/VCR will turn off after it rewinds the tape). If the tape has no safety tab, it will be ejected.

Tape Eject

Press the EJECT button on the DVD/VCR when stopped to eject the tape. You can also press and hold the OPEN•CLOSE button on the remote control for three seconds.

Basic Recording

1. Set the tape speed by pressing the SPEED button on the remote control.
2. Press the RECORD button to begin recording.
3. Press the STOP button to halt recording.

   If you just want to pause the recording for a short time (like during a commercial), press PAUSE instead of STOP.

Safety Tab

Check the Safety Tab

Make sure there is a tape in the DVD/VCR with its safety tab in place. You cannot record on a tape if the safety tab has been removed. If the safety tab is removed and you want to record, simply cover the hole with adhesive tape.

VCR Features

Recording Features

Your DVD/VCR provides many ways to record programming. Basic recording is explained in detail on page 29. The following recording techniques are also available.

- **Recording** – lets you press one button to record a program.
- **Instant Timer Recording (ITR)** – allows recording to start while a program is being watched. This feature automatically stops recording after a designated period of time.
- **Timer Recording** – program the DVD/VCR for a daily, weekly, or one-time recording which will automatically start and stop at the times you set.

Instant Timer Recording (ITR)

Use ITR to quickly record the remaining portion of a program being watched. ITR is a great way to capture the end of a sporting event that has run into overtime or a live broadcast that runs long. ITR works in 30-minute increments. You can capture the last 30, 60, 90, etc. minutes of programming (depending on tape length), up to 9 hours total.

To Activate ITR:

1. Turn on the DVD/VCR and tune it to the channel with the desired programming.
2. Insert a tape with its safety tab in place into the DVD/VCR. Make sure it is cued to record at the proper starting point.

   Note: To override the preferred tape speed setting, press the SPEED button on the remote control repeatedly to toggle between SP and SLP choices.

3. Press the RECORD to start recording.
4. Repeatedly press RECORD to set up the recording duration.
   - Press RECORD until *Instant Timer Record 0:00* appears.
   - Each time you press the RECORD button, 30 minutes is added.
   - The DVD/VCR automatically turns off after it has recorded the set amount of time.
   - To stop an ITR recording, press STOP.

Timer Recording

You can set up to 8 different TV programs to be recorded. Before a Timer Recording will work, the VCR needs to be set up correctly.

• DVD/VCR's clock must be set correctly.

• The timer indicator appears in the display when you turn off the DVD/VCR and a timer recording has been set. The tape indicator flashes if there is no tape in the DVD/VCR when a timer recording has been set and the unit is turned off.

• For a cable box or satellite receiver, turn it on and tune it to the channel you want to record before the recording is to begin. The channels will be controlled by the cable box or receiver.

• Insert a tape with its safety tab in place and enough tape to record the program.

```
  🕐  CLOCK
  REC  PROGRAM
  📡  TUNING
  🔢  SETUP
 ▲▼
 TO  REC   PROGRAM  1
           MONTH   : JULY
           DAY     :  6 FRI
           START   :  6:00 PM
           STOP    :  7:30 PM
           CHANNEL : 4  TV
           SPEED   : SP
           REPEAT  : ONCE
          ▲▼ SELECT  ◄► ADJUST
          TO  EXIT  PRESS MENU
```

Notes: If you have a cable box or satellite receiver, you must tune the DVD/VCR to the cable box output channel (usually 3 or 4). Change channels with the cable box or satellite receiver instead of the DVD/VCR.

Also, you can only program multiple recordings for the same channel since you'll need to change the channel manually on the cable box or receiver.

To Set Up a Timer Recording Program:

1. Press the MENU button to display the VCR Main Menu.

2. Press the down arrow button until *PROGRAM* is highlighted, and press OK (the Program menu appears).

3. Use the left and right arrow buttons to choose the program number you want (1-8).

4. Enter the data for the program with the arrow buttons.

   The data includes the channel number, and start and end times (including AM or PM). The start date is automatically entered based on the DVD/VCR's clock. Both the recording date and speed can be changed.

5. Select how often you want the program to record.

6. Review the information to make sure it is correct.

7. Press the MENU button to save.

Stopping a Timer Recording

To stop or cancel a timer recording in progress (even an Instant Timer Recording), press STOP.

VCR Features

```
┌──────────────────────────────┐
│  🕐  CLOCK                    │
│                              │
│  [REC]  PROGRAM              │
│                              │
│  📼  TUNING                  │
│                              │
│  🕐8  SETUP                  │
│                              │
│ ▲▼ SELECT [ENTER]            │
│ TO ┌──────────────────────┐  │
│    │[REC] PROGRAM  1       │  │
│    │  MONTH   : JULY       │  │
│    │  DAY     :  6  FRI    │  │
│    │  START   :  6:00  PM  │  │
│    │  STOP    :  7:30  PM  │  │
│    │  CHANNEL : 4   TV     │  │
│    │  SPEED   : SP         │  │
│    │  REPEAT  : ONCE       │  │
│    │ TO  ERASE  PRESS CLEAR│  │
│    │ TO  EXIT  PRESS  MENU │  │
│    └──────────────────────┘  │
```

Reviewing and Clearing Programs

To review programs that you have already set up:

1. Press the MENU button to display the VCR Main Menu.

2. Press the down arrow button until *PROGRAM* is highlighted, and press OK (the Program menu appears).

3. Use the left and right arrow buttons to choose the program number you want to check or clear (1-8).

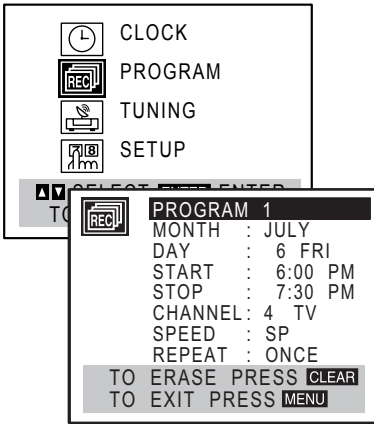• To erase a program, press CLEAR.

Time Counter

The time counter shows the actual time used when recording or playing a tape. The time counter helps locate the beginning or end of recorded events. It resets to 0:00:00 whenever a tape is ejected from the DVD/VCR.

For example, if you record a 30–minute program at the beginning of a tape, rewind it, and then want to go to the end of the first program to start another recording:

```
┌──────────────────────────────┐
│                              │
│                              │
│                              │
│                              │
│                              │
│       Hours    Minutes       │
│          \      /            │
│          0:30:00             │
│               \              │
│               Seconds         │
└──────────────────────────────┘
```
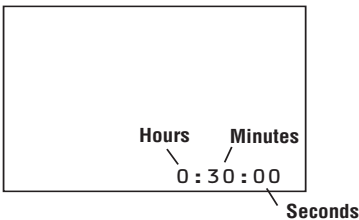
1. Press the INFO button **twice** to display only the time counter.

2. Press the CLEAR button to reset the time counter to 0:00:00.

3. Press the remote control's FORWARD button to advance a tape until the time counter reads 0:30:00.

4. Press the STOP button. This is the approximate end of a 30-minute program (you may want to press the PLAY button to verify). When the tape is cued correctly, you can begin recording.

5. Press the INFO button to remove the time counter from the screen and return to the normal display mode.

1

```
STOP                      CH2
SP




May 20, TUE          6:14PM
```
On-screen display (times out)

2

```




                    0:30:00
```

Time counter only (does not
time out)

3

```




```

No displays will appear (useful
for dubbing)

Info Display

To find out the status of the DVD/VCR, press the INFO
button on the remote control. Each time you press INFO,
different information appears on the screen. See the
following examples.

Note: The date and time must be set before they can be displayed.

1. Press the INFO button to show the on-screen displays.
   The time counter is displayed in the DVD/VCR's front
   panel for a short time.

2. Press INFO again to display just the time counter on the
   TV screen. The time counter remains in the DVD/VCR's
   display panel. This is useful for dubbing tapes.

3. Press the INFO button again to have no displays appear
   on the TV screen. The current time is displayed in the
   DVD/VCR's display panel.

   Note: Turning off the DVD/VCR player also resets the displays.

VCR Features

Index Search

The VCR has a VHS Index Search System that automatically records index marks on the tape every time you start a recording. During playback you can locate the program you want to play by the number of index marks or by scanning. The VCR will search forward or reverse from the location you are at on the tape.

To Activate Index Search:

1. While playing back, press the STOP button to stop the tape.
2. Press the SEARCH button on the remote control (*SCH_ _* appears on the display on the front of the unit) .
3. If you want to search through a certain number of index marks, press two number buttons to enter the number of marks you want to search. Press CLEAR to correct an entry.
4. Press the FORWARD button to search forward or REVERSE to search in reverse. The VCR will locate your index mark and begin playback. If you did not enter a specific index number, the VCR will locate the next index mark and begin playback.
5. Press STOP to stop Index Search.

Notes: Certain index marks may be missed by the VCR including:

- *Marks too close to the current location of the tape.*
- *Those at the beginning of a recording lasting five minutes or less.*
- *Index marks that start at the beginning of the tape.*

```
┌─────────────────────────────┐
│  🕐   CLOCK                  │
│                             │
│  📼   PROGRAM               │
│                             │
│  📡   TUNING                │
│                             │
│  🔢   SETUP                 │
│ ─────────────────────────── │
│ ▲▼ SELECT ENTER ENTER       │
│ TO EXIT PRESS MENU          │
└─────────────────────────────┘
```
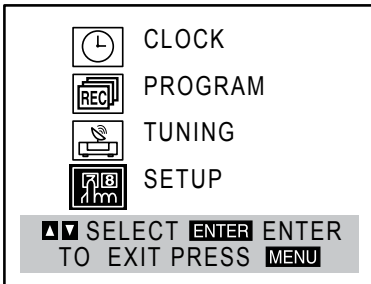
Explanation of the VCR Menu System

The on-screen menus you set up the first time you turned on your DVD/VCR were explained in Chaper 1. This chaper lists other menus that you can access through the VCR Main Menu (press VCR and then MENU on the remote control).

```
┌─────────────────────────────┐
│ 🕐  MONTH:   JANUARY         │
│     DAY   :   1  WED         │
│     YEAR  :  2003            │
│     TIME  :  12 : 00  AM     │
│ AUTO CLOCK SET :    ON       │
│ DAYLIGHT SAVING: AUTO        │
│ TIME ZONE:         AUTO      │
│ ─────────────────────────── │
│ ▲▼ SELECT    ◄► ADJUST       │
│ TO EXIT PRESS MENU           │
└─────────────────────────────┘
```
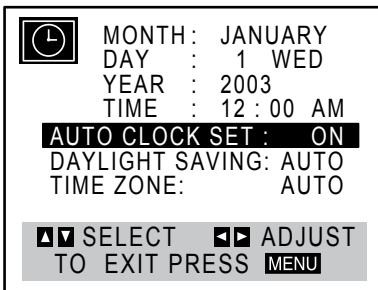
Clock Menu

The *CLOCK* menu options were set the first time you turned on the DVD/VCR and are explained on page 11.

```
┌─────────────────────────────┐
│ 📼  PROGRAM  1               │
│     MONTH  : JULY            │
│     DAY    :  6  FRI         │
│     START  :  6:00  PM       │
│     STOP   :  7:30  PM       │
│     CHANNEL: 4  TV           │
│     SPEED  : SP              │
│     REPEAT : ONCE            │
│ TO ERASE PRESS CLEAR         │
│ TO EXIT PRESS MENU           │
└─────────────────────────────┘
```
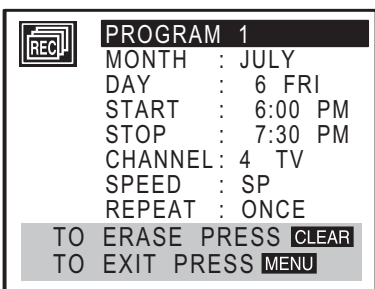
Program Menu

The *PROGRAM* menu options are explained in detail on page 31.

```
┌─────────────────────────────────────┐
│  ┌──┐                                │
│  │📡│                                │
│  └──┘                                │
│                                      │
│  AUTO CHANNEL SET                    │
│  TUNING BAND:          TV            │
│  CH. ADD/DEL: CH. 2  ADD             │
│  SOURCE SELECT:   TUNER              │
│                                      │
│  ▲▼ SELECT    ◄► ADJUST              │
│   TO EXIT PRESS MENU                 │
└─────────────────────────────────────┘
```
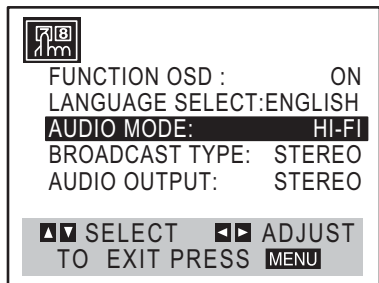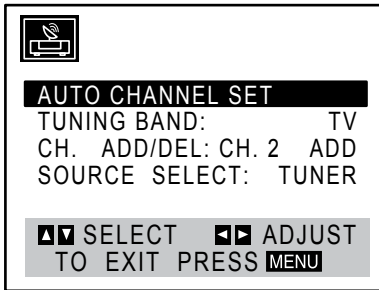
Tuning Menu

The Auto Channel Search procedure is explained in detail on page 11.

To add or delete channels from the VCR channel list:

1. Press MENU to display the VCR Main Menu.

2. Press the down arrow button until *TUNING* is highlighted, and press OK (the *TUNING* menu appears).

3. Press the down arrow button until *CH. ADD/DEL:* is highlighted, and press the right arrow button until the channel you want to add or delete is shown.

4. Press the OK button to add or delete the channel (it will be added or deleted).

5. Repeat steps 3-4 for any additional channels you want to edit.

```
┌─────────────────────────────────────┐
│  ┌──┐                                │
│  │🕐│                                │
│  └──┘                                │
│  FUNCTION OSD :         ON           │
│  LANGUAGE SELECT:ENGLISH             │
│  AUDIO MODE:         HI-FI           │
│  BROADCAST TYPE:  STEREO             │
│  AUDIO OUTPUT:    STEREO             │
│                                      │
│  ▲▼ SELECT    ◄► ADJUST              │
│   TO EXIT PRESS MENU                 │
└─────────────────────────────────────┘
```

Setup Menu

Use the Setup menu to change any of the settings in the initial setup procedure, such as language.

Press the VCR button on the remote, then press MENU to bring up the Main menu. Press the down arrow button to highlight *SET UP* and press OK (the *SETUP* menu appears.

Function OSD

Function OSD allows you to turn on or off the on-screen displays.

Use the right arrow button to choose the desired setting.

Language Select

Select your preferred language to determine how the on-screen displays will appear.

Use the right arrow button to choose the desired language.

Audio Mode

AUDIO MODE lets you select what type of audio that is played during playback. Choose from *HI-FI* and *NORMAL*.

Use the right arrow button to choose the desired setting.

Broadcast Type

You can select the type of audio signal the DVD/VCR receives and records. Choose from *STEREO*, *SAP*, and *MONO*.

Press the right arrow button to choose the desired setting. *STEREO* is used for normal or stereo broadcast recording. *MONO* is used if the signal is weak or the sound is too noisy. *SAP* is used to record a Second Audio Program, such as a bilingual program.

Audio Output

You can set how the audio is ouput to your TV.

STEREO is used for true separation of the sound to the left and right speakers.

LEFT is used when you want to hear the left channel sound from both speakers.

RIGHT is used when you want to hear the right channel sound from both speakers.

VCR Output Channel

Note: This is feature is not included in the VCR menu system. It is done from the front panel and is displayed on the front of the unit.

Use this option to change the VCR's output channel. The default channel is 3. To change the output channel to channel 4, follow the steps below.

1. Make sure the DVD/VCR is off (no indicators lit on the display).
2. Press and hold the CHANNEL + or – button on the front of the unit for 5 seconds (*RF3* appears on the front of the DVD/VCR).
3. Press CHANNEL + or – again to change the output channel to 4 (*RF4* appears).
4. To save the change, press the POWER button on the front of the unit.

Child Lock

You can lock the buttons on the front of the DVD/VCR to prevent children from using them.

To lock the buttons:

Press the LOCK button on the remote (*SAFE* appears on the front of the unit and flashes when a button on the front of the unit is pressed). Remember, the DVD/VCR can still be controlled by the remote, so put it in a safe place.

To unlock the buttons:

Press the LOCK button again to unlock the buttons on the front of the DVD/VCR.

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. If a screensaver is on the screen, press STOP or CLEAR. (Remember that you have to put the remote in DVD mode by pressing the DVD button if it's in VCR mode.)
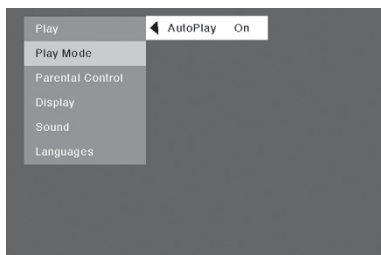
Use the arrow buttons on the remote to highlight different menu items. Use the OK button to select a menu that is highlighted.

Throughout the menu system, text appears at the bottom of the screen to explain what to do.

To return to a previous menu, press the left arrow button.
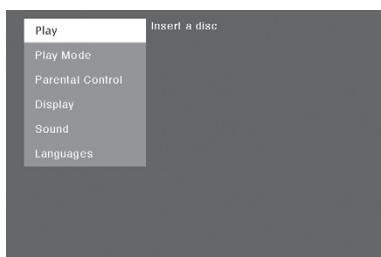
The DVD Main menu.

The *Play Mode* menu.

The Play Menu

The *Play* menu doesn't have submenus or options like the other man menu options. Instead, the status changes: if you're playing a disc and access the main menu, the menu appears as *Resume Play*; if you haven't started playing the disc, the title of the disc appears next to the *Play* menu.

The Play Mode Menu

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* menu. You must have a disc in the player with the disc tray closed in order to access all of the *Play Mode* items.

Note: All of the Play Mode options, expect for Program Play, can be accessed during playback via the DVD player's Info Display (see page 20).

Start

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

Program Play

With this option, you choose the order in which the chapters (or tracks) play.

1. Highlight *Program Play*, and press the OK button (the Program Playlist screen appears). Follow the on-screen instructions to create your program:

    1a. DVD: select a title using the and buttons and press the button to access the list of chapters. To select a chapter, press the and buttons.

    1b. Audio CD: select a track using the and buttons, or select *All* to start playing all the tracks.

Note: When a track is selected for more than two seconds, the first few seconds of the track plays.

1c. mp3 CD: select a folder using the and buttons, then press the button to access the list of files, then select a file using the and buttons.

Note: When an mp3 file is selected for more than two seconds, the first few seconds of the track plays.

2. Press OK to add the title, chapter (DVD), track (audio CD) or file (mp3) selected, to the list. Press the CLEAR button to remove the last title/chapter/track/file from the list. Press PLAY to start program play. Repeat steps 1 and 2 as often as necessary.

AutoPlay

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

Highlight *AutoPlay* and press OK (*On* appears next to the *AutoPlay* menu). To turn *AutoPlay* off, just press OK again while *AutoPlay* is highlighted.

Note: AutoPlay isn't available for mp3 discs (the mp3 menu will appear when you insert the disc).
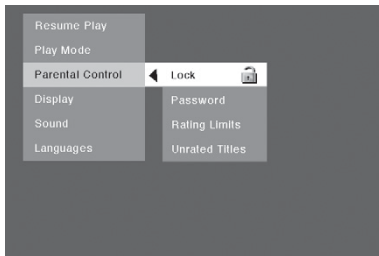
The *Parental Control* menu.

The Parental Control Menu

You can set up ratings limits and lock your player in order to control the type of content people watch on your DVD/VCR. The padlock icon 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 Parental Control 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/VCR

1. If you're playing a disc, press STOP (the DVD Player's main menu appears).

2. Press the down arrow button until *Parental Control* is highlighted, and press OK (the *Parental Control* menu items appear).

3. Since *Lock* 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 (if necessary, press the left arrow button to return to the previous menu).

Notes: Once the player is locked, you'll need to enter the password every time you access the Parental Control menu.

The player is shipped without any rating limits set. You need to set Ratings Limits (go to page 41 for instructions) in order for the player to prevent people from playing discs with certain ratings.
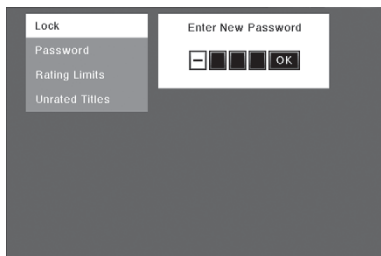
Unlocking your DVD/VCR

1. If you're playing a disc, press STOP (the DVD Player's main menu appears).

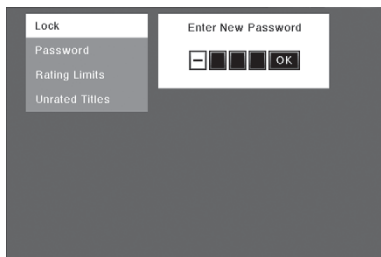2. Press the down arrow button until *Parental Control* is highlighted, and press OK (the *Enter Password* screen appears).

3. Use the number buttons to enter the password you created, and press OK (the *Parental Control* menu items appear).

4. Press the down arrow button until *Unlock* is highlighted, and press OK. If asked, enter your password to confirm that you want to unlock the player (if necessary, press the left arrow button to return to the previous menu).

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 arrow button until *Parental Control* is highlighted, and press OK. If asked, enter your current password (the *Parental Control* menu items appear).

3. Press the down arrow button to highlight *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.

Resetting Your Password

If you forget your password, you can reset it by following the steps below.

1. If a disc is playing, press STOP (the main menu appears).

2. Enter 321 and press OK (the unit resets to the factory defaults and *Factory Reset....Done* appears.

3. Press ON•OFF to turn the unit off.

4. Turn it on again (the *Language* screen appears). Highlight your desired language and press OK.

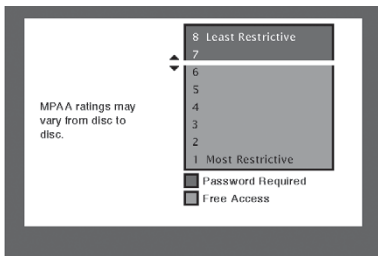| Resume Play	
Play Mode	
Parental Control	◄ Lock 🔒
Display	Change Password
Sound	Rating Limits
Languages	Unrated Titles
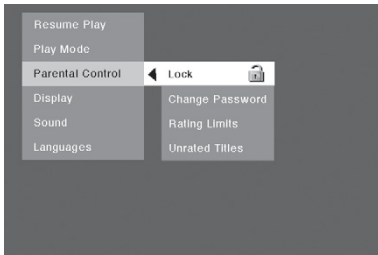
Explanation of Rating Limits

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/VCR must be locked and the disc you're playing must contain a movie (or a title) that is rated.

```
                        8  Least Restrictive
                    ▲   7
                    ▼   6
                        5
MPAA ratings may        4
vary from disc to       3
disc.                   2
                        1  Most Restrictive
                     ▪ Password Required
                     ▫ Free Access
```

To Set Ratings for Rated Titles:

The *Rating Limits* menu enables you to block discs that contain movies with a rating assigned to them (R, PG-13, PG, G, etc.) from being played unless you enter the password you created in the *Password* menu.

1. From the main menu, highlight *Parental Control* and press OK (enter your password if asked).

2. Highlight *Ratings Limits* and press OK (the 8-level rating list appears.

3. Use the up and down arrow buttons to move the bar to the rating level you find acceptable.

    Notes: Ratings that don't require a password (free access) appear under the bar. Ratings that require a password appear above the bar.

4. Press OK.

5. To return to the main menu, press the left arrow button until the main menu appears.

To Set Ratings for Unrated Titles:

Some discs contain titles that don't have a rating assigned to them. Sometimes, movies you might find the most explicit are unrated. You can restrict access by requiring a password for unrated titles.

1. From the main menu, highlight *Parental Control* and press OK (enter your password if asked).

2. Highlight *Unrated Titles* and press OK (another screen appears).

3. Press the down arrow button to highlight *Password Required*, and press OK. Now your password will be required to play unrated titles as long as you make sure to lock the player.

4. To return to the main menu, press the left arrow button until the main menu appears.

   Note: You must lock the player in order for rating limits to be enforced.

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/VCR.
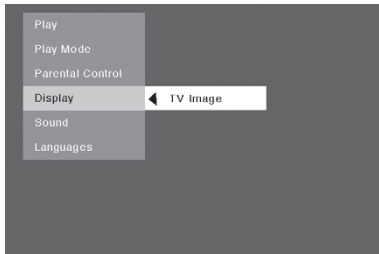
The *Display* menu.

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). If a disc is playing, press STOP.

2. Use the up and down arrow buttons to highlight *Display*. Press the OK button on the remote (the *Display* choices appear).

3. Since *TV Image* is the first submenu, it's already highlighted. Press the OK button (the *TV Image* options appear).

4. Use the up and down arrow buttons to highlight your choice (the options are explained below), and press OK to select.

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.

4 x 3 Standard – 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.

DVD Menu System

16 x 9 Widescreen – 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 sides of the screen will appear black.

Progressive Scan

You can change how the video signal is output to your TV as either progressive scan or interlaced.

1. With the player on (no disc playing), press MENU (the main menu appears). If a disc is playing, press STOP.

2. Use the up and down arrow buttons to highlight *Display*. Press the OK button on the remote (the *Display* choices appear).

3. Use the up and down arrow button to highlight *Progressive Scan*. Press the OK button (the *Progressive Scan* options appear).

4. Use the OK button to toggle between *Progressive Scan on* or *off*.

   Tip: You can also toggle progressive scan and interlace mode by pressing and holding the PAUSE button when a disc is not playing.

   Important: If you lose the picture signal when connected to your TV with component video cables, toggle the progressive scan/interlace mode as mentioned above.

Sound Menu

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

Sound Logic

The Sound Logic feature compresses the dynamic range (quietest sound to loudest sound) of a disc's soundtrack to even out the range of volume.

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 and press OK (the *Sound Logic* options appear).

3. Use the up and down arrow buttons to highlight a choice and press the OK button:

   Off – this is the default (Sound Logic is turned off).

   On – the volume range is compressed (loud sounds are quieter and soft sounds are louder).

   Note: The performance of the Sound Logic feature varies depending upon the equipment you have connected to your DVD/VCR and also the audio format of the disc you're playing.

Digital Output

If you connected your DVD/VCR to a receiver via the Digital Audio Out jacks (COAXIAL or OPTICAL) on the back of the player, choose both *Dolby Digital* and *DTS settings*.

1. If the main menu isn't on the screen, press the STOP button (the main menu appears).

2. Use the up and down arrow buttons to highlight *Sound*. Press OK.

3. Highlight the *Digital Output* menu. Press OK (the options appear).

4. 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.

   Note: If you choose the DTS setting and your receiver, decoder, or disc doesn't support the DTS format, you won't hear any audio.
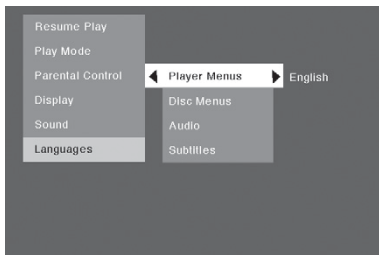
The *Languages* menu.
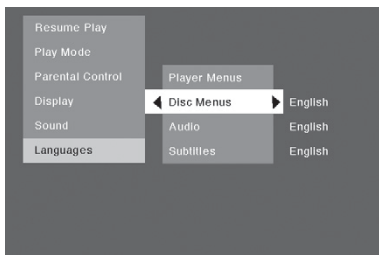
Languages Menu

The *Languages* menu enables you to set preferred language options for:

• *Player Menus* (the DVD Player's menu system)

• *Disc Menus*

• *Audio* (the dialogue of DVD titles)

• *Subtitles*

The way you choose languages is the same for each of the *Languages* submenus.

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. Use the up or down arrow buttons to highlight the option you want to change, and press OK (the languages appear).

3. Highlight the language you want to use and press OK.

4. To return to the previous menu, press the left arrow button if necessary.

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. 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 chose in the Subtitles menu, the discs default subtitle language will be chosen.

Child Lock

You can lock the buttons on the front of the DVD/VCR to prevent children from using them.

To lock the buttons:

Press the LOCK button on the remote (*SAFE* appears on the front of the unit and flashes when a button on the front of the unit is pressed). Remember, the DVD/VCR can still be controlled by the remote, so put it in a safe place.

To unlock the buttons:

Press the LOCK button again to unlock the buttons on the front of the DVD/VCR.

Troubleshooting

Most problems you encounter with your product can be corrected by consulting the following troubleshooting list.

Note: If you prefer, we can provide you with the name of an Authorized Service Representative who will visit your home for a fee to install your electronic entertainment system and to instruct you in its operation. For details about this service, call 1-888-206-3359. For additional assistance while using your RCA product, please visit www.rca.com/ customersupport.

General Problems

Player won't work
• Try unplugging the AC power cord and plugging it back in.

No power
• Plug in the DVD/VCR. Make sure both ends of the AC power cord are securely plugged into the player and into an AC outlet.
• Make sure the DVD/VCR isn't plugged into an outlet controlled by a light switch.

Player turns off automatically
• The power automatically turns off after the player has been in stop mode for approximately 30 minutes. Turn power back on.

No picture
• Turn your TV to its Video Input Channel (go to page 62).
• Turn on the TV.
• Make sure your player is connected properly.
• If you're using component video cables to connect to your TV, toggle the progressive scan/interlace mode (see page 44).

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 45. If you selected *DTS* and your DVD/VCR isn't connected to a DTS compatible decoder or receiver, either you won't hear any audio, or it will be distorted. Also, if you've connected a DTS compatible receiver or decoder and chose the correct setting in the *Digital Output* menu, and the disc doesn't support the DTS audio format, you won't hear any audio or you'll hear distorted audio.
• Turn your TV to its Video Input Channel (go to page 62).
• Sound is muted when you're using search features (fast forward, reverse, frame advance, etc.).
• If you connected an audio receiver to your DVD/VCR, make sure you chose the correct input setting on the receiver.

Additional Information

Remote control won't work

- You might be in the wrong mode. To operate the DVD functions of your DVD/VCR, press DVD on the remote before you press any other buttons. To operate the VCR, press the VCR button first. If you're operating the TV, press the TV button first, etc. (this remote operates most RCA, GE, and Proscan TVs).
- Check battery installation—the direction on the + and - on the batteries must match the information in the battery compartment cover.
- Insert new batteries in the remote.
- Operate the remote control at a distance of no more than 20 feet.
- Remove any obstacles between the remote and the DVD/VCR or other component. If your DVD/VCR is in an entertainment cabinet, the glass doors might obstruct the remote control from operating the unit. Open the doors.
- Reset the remote — remove the batteries; press and hold the 1 button for 60 seconds; replace the batteries and try the remote again.

General DVD Problems

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, DVD audio discs, Video CDs, CDs with mp3 files, discs with WMA files and/or JPEG files on the them, and audio CDs.
- If you're trying to play a disc with JPEG files on it, the player might not read the disc if it has larger files on it.
- 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.

Can't advance through a movie

- You can't advance through the opening credits and warning information that appear at the beginning of movies because the disc is programmed to prohibit that action.

The invalid icon appears on screen

The 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.

The picture is distorted

- The disc might be damaged. Try another disc.

Picture is distorted during forward and reverse scan

- It is normal for some distortion to appear while scanning.

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 43 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 43 for more information.

General VCR Problems

No power
- Make sure the DVD/VCR is plugged into a working outlet.
- Make sure connections between devices are correct and snug.

There's poor quality or no picture for normal TV viewing
- If using RF coaxial cables to connect the DVD/VCR to the TV, make sure the VCR indicator is not displayed on the DVD/VCR's front panel (press the remote control's TV/VCR button to toggle between VCR and TV-viewing modes).

  If using A/V jacks and cables to connect the DVD/VCR to the TV, press the remote control's INPUT button when in TV mode to access the TV's Video Input Channel.
- Tune the TV to an active channel.
- All cables should be securely inserted and connected to the proper jacks.

The buttons on the front of the unit won't work (and SAFE flashes)
- The buttons are locked. Press the LOCK button on the remote to unlock them.

Cannot select channels over 69
- Cable channels over 69 can only be selected if *TUNING BAND:* is set to *CATV* in the *TUNING* menu. Go to page 11 for instructions.

The timer indicator flashes on the DVD/VCR front panel
- The clock is not set. Go to page 11 for instructions.
- Make sure there is a tape in the DVD/VCR when a timer recording is set.

Rewind does not operate
- Make sure the tape isn't already rewound.
- Make sure the tape isn't damaged or broken.

The incorrect time or date is shown
- A power interruption may have occurred and Automatic Clock Set was not turned on or did not work properly. Check the time zone and Daylight-Saving settings in the *TIME* menu.
- Make sure the DVD/VCR player or cable box is tuned to the time data channel (check with your cable service provider for information about time data).
- Auto Clock Set is not supported in all areas or by digital satellite receivers. Set the time and date manually using the *TIME* menu. Go to page 11 for instructions.

The time did not adjust for Daylight-Saving Time
- Make sure the Daylight-Saving Time feature is set correctly in the *TIME* menu.

The DVD/VCR makes noise when it is stopped

• This is normal. The DVD/VCR removes the tape from the playheads when stopping. The cylinders inside the unit will continue to rotate for a few minutes after stopping.

The DVD/VCR won't find active channels correctly using the Auto Channel Search feature

• Make sure all cable connections are secure and correct.
• Make sure that *TUNING BAND*: is set correctly in the *TUNING* menu.
• Auto Channel Search may not be necessary if using a cable box to view all channels. Contact your local cable company for more information.

On-screen menus appear in a foreign language

• Check the *LANGUAGE* menu to choose a preferred on-screen language.

Recording Problems

Will not record

• Make sure there is a recordable tape in the DVD/VCR.
• Eject then reinsert the tape.
• Make sure the tape is not broken.
• Make sure the DVD/VCR player is not in pause mode. Press PAUSE or PLAY to return to normal playback.
• Make sure the tape's safety tab is intact.

Timer recording was not made or the wrong program was recorded

• Make sure the program was entered correctly (the wrong channel or times may be entered).
• Make sure the cable box or satellite receiver was turned on when recording was to begin.
• There may have been a power interruption. Reset the time and date.
• Check to see if time and date are correct – including AM/PM.
• Make sure the program did not exceed the tape's length and the tape was rewound beforehand.
• Make sure the DVD/VCR was turned off at the time recording started.
• Make sure there was a tape in the DVD/VCR with its safety tab intact.
• The DVD/VCR ejects tapes when the end is reached during a timer recording.

Playback Problems

Snowy or no picture during playback

• Press the remote control's TV/VCR button to activate VCR mode. *VCR* appears in the front panel display when active.
• Check the TV channel selected (3 or 4) to make sure it matches the VCR channel output setting.
• Check to make sure the TV's fine tuning is correct for the channel selected.
• If you use A/V cables and jacks to connect the DVD/VCR to the TV, check all connections for snug and correct connections.

Additional Information

- If you are using A/V cables, make sure the TV is set to the Video Input Channel. Go to page 62 for instructions.
- If you are not using A/V cables, make sure the DVD/VCR is not in Video Input Channel mode. Press INPUT on the remote control to return to normal viewing.
- Try another tape.
- Some snow/streaks are normal during search, stop action, frame advance, and slow-motion playback.

Streaks in picture during normal playback
- Press one of the CHANNEL +/- buttons on the front of the unit (or CH +/- on the remote) to move streaks up or down for the best picture.
- Make sure the tape is of good quality and not worn out.

Time counter not working or time counter not working in search modes
- The time counter does not advance during unrecorded portions of tape. When an unrecorded segment of tape is encountered, the time counter will hold its count until recorded material is detected again.
- A minus (–) will appear in front of the time if you rewind the tape farther back than a counter reading of 0:00:00.
- The time counter disappears during search; this is normal.

Tape won't play
- Make sure there is a tape in the DVD/VCR.
- Try ejecting and reinserting the cassette.
- Make sure the tape is not broken.
- Make sure the DVD/VCR is not in pause mode. Press PAUSE or PLAY to return to normal playback.

Auto Channel Search doesn't work
- Make sure the antenna connections are secure and correct.
- Make sure the *TUNING BAND:* feature is set correctly.
- May not be necessary if using a cable box for all channels. Contact your local cable company for more information.

Tape plays back in slow motion
- Press PLAY to return to normal playback.

Tape with safety tab removed doesn't start playing
- Make sure the AUTO PLAY ON/OFF feature is set to ON.

Time counter disappears during searching
- This is normal.

There is no stereo sound during playback
- Make sure the *AUDIO MODE* feature is set to *Hi-Fi* to hear stereo sound during playback.

- You must connect the DVD/VCR to the TV using A/V cables (not provided) to hear true stereo sound during playback. Go to page 7 for instructions.

The stereo Audio is too noisy

- The stereo signal is weak. Set the *BROADCAST TYPE:* to *MONO*.
- Press either the CHANNEL – or + button on the front of the unit (or CH +/- on the remote) to minimize picture noise.

Cannot copy discs to video tape

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

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 get an "Incompatible file" message when I try to play JPEG files

- Some JPEG files might be too large to be displayed, or a large file is blocking the player from displaying all the other JPEG files on the disc.

I forgot my password

- You need to reset the unit to its factory defaults to reset the password and enter a new one. See page 40).

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, 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/VCR

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.
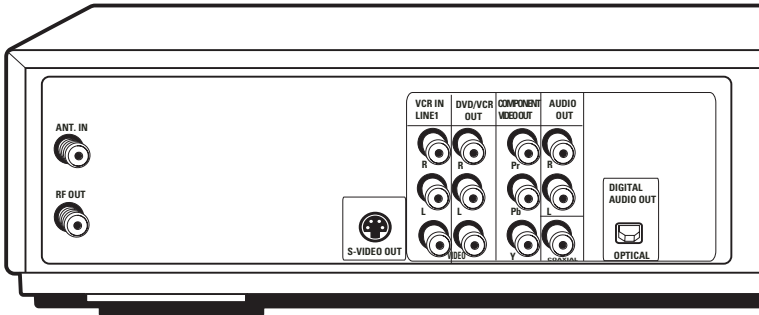
Description of Jacks (from left to right)

S-VIDEO OUT – If your TV has an S-VIDEO jack, connect an S-Video cable to the DVD/VCR'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. This connection is only for DVD signal. For the VCR signal, you must also connect the standard video cable.

VCR IN (AUDIO/VIDEO) – If you are using color-coded red, yellow and white RCA cables, connect these jacks to a video input component, such as a video game system or camcorder.

DVD/VCR OUT (AUDIO/VIDEO) – If you are using color-coded red, yellow and white RCA cables, connect these jacks to the corresponding jacks on your TV.

COMPONENT VIDEO OUT (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. This connection is only for DVD signal. For the VCR signal, you must also connect the standard video cable.

AUDIO OUT– Use these jacks to connect your DVD/VCR to an audio/video receiver.

DIGITAL AUDIO OUT (OPTICAL and COAXIAL)

Use one of these jacks to connect your DVD/VCR to a receiver or decoder with Dolby Digital or DTS capability. 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.

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. 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.

Additional Information

Description of Jacks (continued)

OPTICAL - connect an optical cable (SPDIF) to the OPTICAL jack on the DVD/VCR 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.
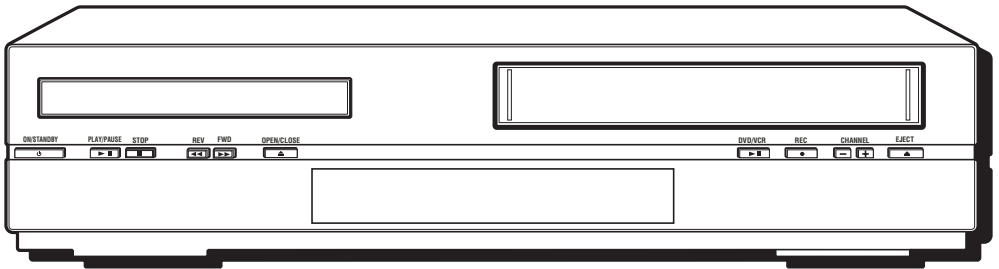
Front of the DVD/VCR (from left to right)

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

PLAY/PAUSE – Press to begin playback. During playback, press to pause.

STOP – Stops disc or tape play.

REV (Reverse) – Searches backward on a disc or tape.

FWD (Fast forward) – Searches forward on a disc or tape.

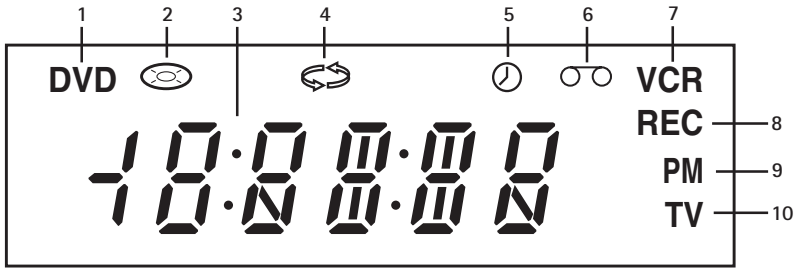OPEN/CLOSE – Opens and closes the disc tray.

DVD/VCR – Switches between DVD and VCR modes.

REC – In VCR mode, press to begin recording on a tape.

CHANNEL -/+ – Press to change the VCR channel.

EJECT – Ejects a tape.

Audio/Video Input jacks – Allows you to connect an external video component, such as a camcorder or video game system. (Found behind the door on the right side on the front of the unit.)

```
         1        2      3        4              5      6      7
```

DVD ◎   ⇆   🕐   🎞️   **VCR**
                                                REC —— 8
⎯⎰⎰⎱⎰⎱⎰⎱⎰⎱⎰⎱⎰⎱⎰⎱⎰   **PM** —— 9
                                                TV —— 10

Front Panel Display

1. DVD — The DVD mode is selected.

2. Disc icon — A disc is loaded. Flashes when no disc is loaded.

3. Number display — The current time, counter, remaining time on a video tape, time expired on a disc, or the current DVD/VCR status (PLAY, REC, etc.).

4. Repeat icon — The repeat mode is selected.

5. Timer icon — A timer recording is programmed or in progress.

6. Tape icon — A tape is loaded. If flashing, you need to insert a tape.

7. VCR — The VCR mode is selected.

8. REC — A recording is in progress.

9. PM — Time is PM (AM is not displayed).

10. TV — The TV mode is selected.

Display Messages

The following are some messages you might see in the DVD/VCR display.

CUE — Tape is searching forward during playback.

Disc (with Disc icon flashing) — No disc is loaded.

EJEC — Tape is ejecting.

FF — Tape is fast forwarding.

L1, L2 — The front or back video input channel is selected.

Open — Disc tray is opening.

PLAY — Playing a VCR tape.

Read — Loading a disc.

REC — Tape is recording.

REC-P — Recording is paused.

REV — Tape is searching backward during playback.

REW — Tape is rewinding.

SAFE — Child lock is active.

SCH — Tape is peforming a visual search.

SP, SLP — Tape recording speed.

STiLL — Tape is paused.

STOP — Tape is stopped.

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/VCR — you can purchase cables by calling 1-800-338-0376, details are on page 63, or order online at www.rca.com, or go to your local electronics store). There are several ways to connect your DVD/VCR 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 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/VCR 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/VCR 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).

FCC Declaration of Conformity and Industry Canada Information

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Trade Name: RCA
Model: DRC6100N
Equipment
Classification: TV Interface Device

Responsible Party: Thomson Inc.
                   10330 N. Meridian St.
                   Indianapolis, IN 46290
                   Phone: (580) 634-0151

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 the 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.

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

Industry Canada Compliance Notice

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B conforme à la norme NMB-003 du Canada.

Chapter 6   **59**

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:

• Provide you with a new, or at our option, a refurbished unit.The exchange unit is under warranty for the remainder of the original product's warranty period.

After the 90 days and within one year:

Provide you with a new or, at our option, refurbished unit.The exchange unit is under warranty for the remainder of the original product's warranty period. We will bill you a flat exchange charge to replace a defective unit.This charge covers the labor cost for its repair.

How to make a warranty claim:

• Properly pack your unit. Include any cables, etc., which were originally provided with the product. We recommend using the original carton and packing materials.

• 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.

• Also print your name and address and a description of the defect. Send via standard UPS or its equivalent to:

> Thomson Inc.
>
> 11721 B Alameda Avenue
>
> Socorro,Texas 79927

• Pay any charges billed to you by the Exchange Center for service not covered by the warranty.

• Insure your shipment for loss or damage.Thomson accepts no liability in case of damage or loss en route to Thomson.

• A new or refurbished unit will be shipped to you freight prepaid.

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.

Product Registration:

Please complete the online Product Registration on RCA.com/productregistration or complete and mail the Product Registration Card packed with your unit. 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 INC., ITS AGENTS OR EMPLOYEES SHALL CREATE A GUARANTY 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 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.

Additional Information

## How to find your TV's Video Input Channel

In order to see what's playing on your DVD/VCR, you need to tune the TV to the Video Input Channel that corresponds to the jacks you used to hook up the unit 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).
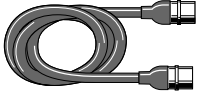
Video Input Channel Variations

Button/Switch on the TV	Button on the TV remote		Channel Number	
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

Accessories
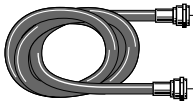
VH81 (3–ft)

VH82 (6–ft)

VH89 (6–ft)
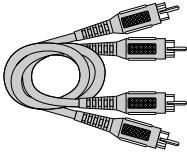
Gold–Tipped cable

VH83 (6–ft)
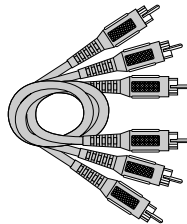
Gold–Tipped cable

VH84 (6–ft)

| Description	Part No.	Price
Screw-on antenna cable (3-ft)	VH81	$3.95
Screw-on antenna cable (6-ft)	VH82	$4.95
Push-on antenna cable (6-ft)	VH89	$5.95
Monaural VCR Dubbing Cable (6-ft)	VH83	$5.95
Stereo VCR Dubbing Cable (6-ft)	VH84	$9.95
Component Video Cables (6-ft) (not shown)	DT6DC	$24.95
Component Video Cables (12-ft) (not shown)	DT12DC	$34.95
S-Video Cable (6-ft)	VH976	$7.95
S-Video Cable (12-ft)	VH913	$14.95
2-way Signal Splitter	VH47	$3.95
Amplified Antenna	ANT200	$49.95
Remote Control (RCR311DA1)	260607	$24.99
Antenna Mixer (not shown)	193984	$11.15
Audio•Video Adapter (not shown)	228449	$4.45
Digital Optical Cable (6-ft) (not shown)	DV6	$19.95
Digital Coaxial Cable (6-ft) (not shown)	DV6MM	$19.95
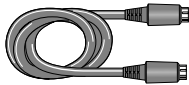
VH976 (6–ft)

VH913 (12–ft)

RCR311DA1
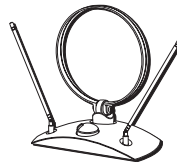
ANT200
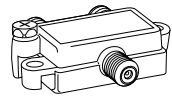
Splitter VH47

HOW TO ORDER

ON–LINE: Accessories may also be purchased at www.rca.com/accessories (subject to availability).

BY PHONE: To place your order by phone, have your Visa, MasterCard or Discover Card ready and call **1–800–338–0376**. Use this number only to place an order for accessory items listed on this page.

BY MAIL: mail money order or check in US currency (made payable to Thomson Inc.), along with ordering information (part numbers), phone number and shipping address, to the following address:

> **Video Accessories
> PO Box 8419
> Ronks, PA 17573**

All accessories are subject to availability.
Where applicable, we will ship a superseding model.

Visit the RCA website at www.rca.com

Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

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