RCA

TV/DVD
User's Guide

MODEL:RCRVD2022

Keep this manual for future reference.

1

Important Information

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

This symbol indicates that this product incorporates double insulation between hazardous mains voltage and user accessible parts. When servicing use only identical replacement parts.

Caution: To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

This symbol indicates important instructions accompanying the product.

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

Notes:

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

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.

WARNING

To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION

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

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

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

Caution: Using video games or any external accessory with fixed images for extended periods of time can cause them to be permanently imprinted on the picture tube (or projection TV picture tubes). ALSO, some network/program logos, phone numbers, etc. may cause similar damage. This damage is not covered by your warranty.

Cable TV Installer: This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Product Registration

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

CLASS 1 LASER PRODUCT

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. These numbers are located on the product.

Model No. _____ Serial No. _____Purchase Date: _____

Dealer/Address/Phone:_____

Connections and Setup

Things to Consider Before Connecting Components

Important Stand and Base Safety Information

Choose the location for your TV carefully. Place the TV on a stand or base that is of adequate size and strength to prevent the TV from being accidentally tipped over, pushed off, or pulled off. This could cause personal injury and or damage the TV. Refer to the Important Safeguards sheet packed with your TV.

Protect Components From Power Surges

• Connect all components before plugging any power cords into the wall outlet.

• Always turn off the TV and other components before you connect or disconnect any cables.

Position Cables to Avoid Audio Hum or Interference

• Insert all cable plugs firmly into their jacks.

• Place any Audio/Video (A/V) cables to the side(s) of the TV's back panel instead of straight down the back after connecting components.

• Try not to coil any twin-lead antenna cables and keep them away from all A/V cables as much as possible.

• Make sure all antennas and cables are properly grounded. Refer to the Safety Tips sheet packed with your unit for detailed information.
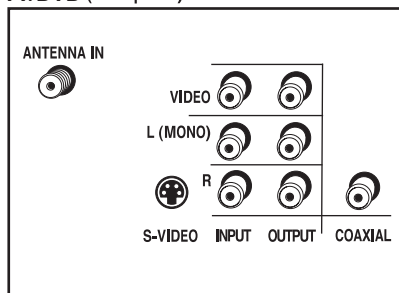
Protect Components From Overheating

• Never block ventilation slots in any component. Arrange the components so that air can circulate freely.

• Do not stack components.

• Allow adequate ventilation when placing components in a stand.

• Place an amplifier or other hot component on the top shelf of a stand so heated air rising from it will not flow around other components.
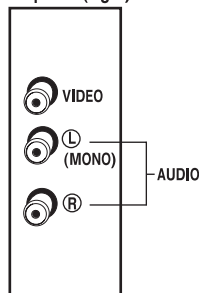
TV/DVD (back panel)

ANTENNA IN

VIDEO

L (MONO)

R

S-VIDEO   INPUT   OUTPUT   COAXIAL

side panel (right)

VIDEO

L (MONO)

R

AUDIO
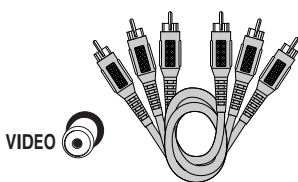
Explanation of Jacks and Cables (cables not included)

You can connect other components to your TV/DVD player such as a VCR, video camera, or audio receiver. There are several ways to connect your other components to your TV/DVD player depending upon the cables you have and the jacks that are on the back of the components. Different jacks and cables provide a different level of performance. The jacks on the back of your TV/DVD Player and the cables used to connect them are explained below.

Note: If you do not connect a cable, antenna, or another component to your TV, the TV will automatically shut off after 15 minutes to save power.

VIDEO

VIDEO Jack and Cable

The basic Video jack (usually color-coded yellow) is also referred to as composite video. Composite video is better than the video quality you get from an RF coaxial cable (the type used to plug the cable feed into a TV). Usually the video cable is bundled with the audio cables (white and red).

S-VIDEO

S-VIDEO Jack and Cable

The S-VIDEO (separate video) jack provides better picture quality than composite video (the VIDEO jack) because the color is kept separate from the black and white part of the video signal.

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

L (MONO)

R

AUDIO L (left) and R (right) Jacks and Cables

These jacks are used for audio connections of other components 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 TV/DVD player and the corresponding jacks on the component no matter which Video jack [AV1 (SVID), DVD, AV3 (side front)] you connect.

Note: If your component has only one audio output 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.

Connections and Setup

Digital Audio Out/Coaxial Jack

Use this jack to connect your TV/DVD Player to a Dolby* Digital or DTS receiver or decoder.

*Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
DTS is a registered trademark of Digital Home Theater Systems, Inc.

Front Panel Controls (from left to right)

If you cannot locate your remote, you can use the front panel buttons of your TV to operate many of the TV/DVD's features.

POWER   Turns the TV/DVD on and off.

PLAY/PAUSE   Plays and pauses disc playback.

STOP   Stops disc playback.

REV. (Reverse)   Searches backward through a disc while it is in play mode. Press and hold remote control to go to the previous chapter.

FWD. (Forward)   Searches forward through a disc while it is in play mode. Press and hold to advance to the next chapter.

OPEN/CLOSE   Opens and closes the disc tray.

INPUT   Toggles the Video Input Channels from [TV (AIR/CABLE), AV1 (SVID), DVD, AV3 (side front)].

MENU   Brings up the *PICTURE* menu.

VOL ▼   Decreases the volume. In the menu system, acts like the left arrow button on the remote control and adjusts menu controls.

VOL ▲   Increases the volume. In the menu system, acts like the right arrow button on the remote control and adjusts menu controls.

CH ▼   Scans down through the current channel list. In the menu system, acts like the down arrow button on the remote control and adjusts menu controls.

CH ▲   Scans up through the channel list. In the menu system, acts like the up arrow button on the remote control and adjusts menu controls.

Putting Batteries in the Remote

Remove the cover of the battery compartment. Insert batteries, with the polarities as indicated, inside the compartment. Replace the cover.

Note: If you are not going to use the remote for a long period of time, remove the batteries to avoid damage due to leakage.

The Buttons on the Remote Control

The remote control contains buttons that are dual purpose depending on which function (TV or DVD) is being used. In addition, some of the DVD buttons can be hidden when the remote is being used for the TV function. Slide the bottom portion of the remote control downward to reveal additional DVD buttons.

Note: The red button labels are used for DVD features.

TV Function Buttons

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

POWER   Turns the TV/DVD on and off.

TV   Puts the remote in TV mode.

（**Press "TV " button to activate TV function on remote control.**）

INPUT   **Press "INPUT" button to select input source.**
      [TV (AIR/CABLE), AV1, DVD, AV3].

SLEEP   Press to set the Sleep Timer. Repeatedly pressing the button advances the time in 10-minute increments up to 2 hours.

BROWSE   Press the button twice to begin channel scan. Press again to select the current channel.

INFO   Displays channel information. Press again to remove the information from the screen.

PIC Brings up picture presets.

CLEAR   Removes a menu or display from the screen and returns you to TV viewing. For menus with digit inputs, pressing CLEAR will clear the last number entered.

0-9 (Number buttons)   Use the number buttons to enter channel numbers. To enter a two-digit channel, press the two digits. To enter a three-digit channel, press and hold the first digit for two seconds until two dashes appear to the right of the number, then add the second two. Example: to tune a channel 123, press and hold 1 for two seconds, press 2, then press 3.

CCD   Turns closed captioning on and off. When playing discs with closed captioning, press this button to set closed captioning to on or off.

GO BACK   Returns to the previous channel. If you are in the menu system, GO BACK takes you to the previous menu screen.

MENU   Displays the Picture menu, first menu of the TV on-screen menu system.

Arrow buttons (VOL◀/▶ and PROG. ▲/▼)   Press the arrow buttons to navigate through the on-screen menu system.

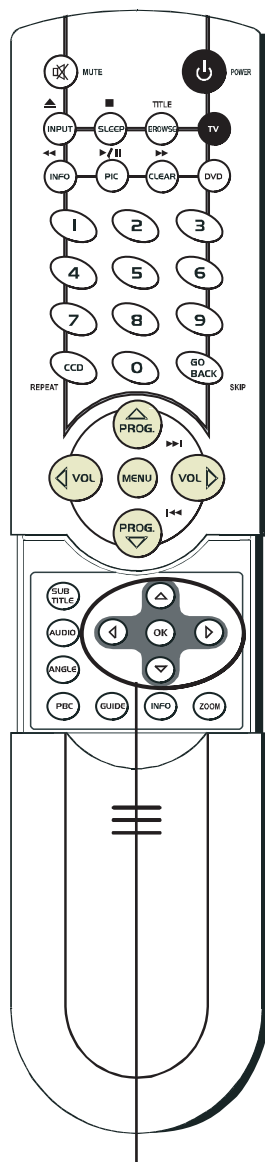**VOL ◀/▶ (Volume buttons)**   Decreases or increases the volume.

PROG. ▲/▼ (Channel buttons)   Scans up or down through the current channel list. Press once to change the channel; press and hold to continue changing channels.

Arrow Buttons for
TV Menu System

NOTE: When in DVD mode, to switch back to TV mode, please press the "TV" button on the remote control,then press on the "INPUT" button and select TV.

The Remote Control

DVD Function Buttons

Note: The red button labels are used for DVD features.

POWER   Turns the TV/DVD on and off.

DVD   Puts the remote in DVD mode.
（**Press "DVD " button to activate DVD function on remote control.**）

⏏ (OPEN/CLOSE)   Press this button to open and close the DVD tray.

■ (STOP)   Stops disc play.

TITLE   Press to display the Title menu during disc playback, if available.

◀◀ (REVERSE)   Searches backward through a disc during playback. Press repeatedly to increase speed.

▶/⏸ (PLAY/PAUSE)   Begins disc play (closes disc tray if opened) or pauses disc play. When disc play is paused, press PLAY/PAUSE to resume playback.

▶▶ (FAST FORWARD)   Searches forward through a disc during playback. Press repeatedly to increase speed.

0–9 (Number buttons)   Use to input information such as chapter and track numbers.

REPEAT   Press to repeat a chapter or title on DVD, or an audio CD track.

SKIP   Advances the title, chapter, or time counter to a specific location on a DVD. See page 15 for more information.

▶▶⏐ (PROG.)   Advances to the next chapter or track.

⏐◀◀ (PROG.)   Reverses to the preceding chapter or track.

MENU   Displays menus and other options that are available on the current disc (if the disc contains this information).

Arrow buttons (◀ / ▶/▲/▼)   Press the arrow buttons to move through the on-screen DVD menu system.

OK button   When a menu is on the screen, press OK to select the item that is highlighted on or off.

SUBTITLE   Selects a subtitle language, if available on the disc.

AUDIO   Selects an audio subtrack language, if available on the disc.

ANGLE   Selects the camera angle, if available on the disc.

PBC (Playback Control)   Turns Navigate feature ON or OFF. In the OFF mode, the disc begins playback without entering the disc's menu. In the ON mode, you must select play in the disc's menu.

GUIDE   Displays the DVD player setup menu when the DVD player is in the stop mode.

INFO Displays the title, chapter, and elapsed time information during playback. Press again to remove information from the screen.

ZOOM   Zooms in on the picture when playing DVD discs.

MUTE and VOL ◀ / ▶   Functions the same in DVD mode as in TV mode.

TV Menus

TV menus let you control picture quality and features available for TV viewing. There is a different menu system for DVD features, described on page 16.

Note: Remember to use the TV arrow buttons when accessing the TV's menu system.

TV Menu Navigation

1. To bring up the TV's menu system, press the MENU button.

2. Use the TV arrow buttons (◄ / ►) on the remote (or the VOL ▲/▼ buttons on the front of the TV) to highlight the different TV menu options (*PICTURE, SOUND, TIMER, FUNCTION, TUNING, PASSWORD* and *PARENTAL GUIDE*).

3. Press the ▲/▼ buttons on the remote (or CH ▲/▼ on the front of the TV) to select the option.

4. Use the arrow buttons (◄ / ►) on the remote (or the VOL ▲/▼ buttons on the front of the TV) to change the setting of the option.

5. Press the MENU button on the remote to exit the menu system.

PICTURE	
CONTRAST	50
BRIGHTNESS	87
COLOR	50
SHARPNESS	76
TINT	0
COLOR TEMP	NORMAL

The PICTURE Menu

The *PICTURE* menu allows you make adjustments to your picture settings.

CONTRAST   Adjusts the contrast between the light and dark areas of the picture.

BRIGHTNESS   Adjusts the brightness of the picture.

COLOR   Adjusts the color intensity or saturation.

SHARPNESS   Adjusts the sharpness of the picture.

TINT   Adjusts the balance between the red and green levels.

COLOR TEMP   Provides three color adjustments: NORMAL, COLD (for more blue in the picture), and WARM (for more red in the picture).

Using TV Menus

```
SOUND
PRESET            USER
BASS              50
TREBLE            50
BALANCE           0
SURROUND          OFF
```

The SOUND Menu

The *SOUND* menu offers different audio options.

PRESET   Provides four preset audio settings
              (*USER /SPEECH/THEATER/MUSIC*).

BASS   Decreases/increases low-pitched sound.

TREBLE   Decreases/increases high-pitched sound.

BALANCE   Adjusts left/right speaker balance.

SURROUND   Turns the surround sound on or off.

```
TIMER

SLEEP TIMER            120
```

The TIMER Menu

The *TIMER* menu is used to set the *SLEEP TIMER*.

SLEEP TIMER   Use the arrow buttons to turn the TV
                   automatically off after a given time. Press
                   the ▶ arrow button to add 10 minutes to the
                   clock (up to two hours).

```
FUNCTION
LANGUAGE          ENGLISH
BACKGROUND        ON
BLACK STRETCH     OFF
NOISE REDUCE      OFF
CLOSE CAPTION     CC1
CC   ON   MUTE
```

The FUNCTION Menu

The *FUNCTION* menu is used to set up specific features of the TV including language and closed captioning.

LANGUAGE   Selects the language (ENGLISH, FRANCAIS,
                   ESPAÑOL) you want the TV menus to
                   be displayed in.

BACKGROUND   Turns the background function (screen
                   saver) on or off (only when using video
                   input channels).

BLACK STRETCH   Turns the black stretch function on or off.

NOISE REDUCE   Turns the noise reduce function on or off.

CLOSE CAPTION   Offers eight closed captioned modes,
                   including four text modes.

CC ON MUTE   When turned on, automatically brings
                   up close captioning when the MUTE
                   button is pressed.

```
TUNING
SOURCE              AIR
CHANNEL             8
CHANNEL NAME        <  >
DELETE CH           YES
FINE TUNE
AUTO SEARCH
```

The TUNING Menu

The *TUNING* menu is used to adjust the signal source, channel setup, and reception of the TV.

SOURCE Selects AIR or CABLE. Select AIR to receive a broadcast signal. Select CABLE to receive a CATV signal.

CHANNEL Use the VOL ◄ / ► buttons on the remote (or the VOL ▲/▼ buttons on the front of the TV) to scroll through the channels available. You can enter the channel number directly using the number buttons.

CHANNEL NAME Assign a label to channels 2 through 11 for off AIR only. Use the VOL ◄ / ► buttons on the remote or front of the TV to select (scroll) a character for   the five-character label for channels 2-11. Use the VOL ▲/▼ to go to the next digit.

DELETE CH Select YES to remove the channel. Select NO to enter to the channel.

FINE TUNE Fine tunes a channel for best reception. Use the VOL ◄ / ► buttons on the remote to adjust for fine tuning.

AUTO SEARCH Starts channel search and stores the channels automatically. Use the VOL ◄ / ► buttons on the remote to begin the auto search. If you wish to stop the search before completed, press MENU.

```
PASSWORD
PASSWORD
```

The PASSWORD Menu

You need a password to enter the *PARENTAL GUIDE* menu. The initial password is "1234." The first time you use this menu you should change the password. If you happen to forget the password, enter the default password "5898" to create a new password. After you enter a correct password, the *PARENTAL GUIDE* menu is displayed.
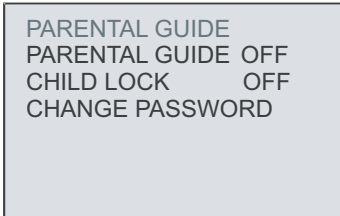
Parental Control and V–Chip

The *PARENTAL GUIDE* menu allows you to program your TV/DVD so that children cannot see certain programs and channels. The software inside your TV/DVD (V-Chip) allows you to "block" TV programs and movies based on violence, sex, or other content you think children should not view. It lets you program your TV so it will not display certain programs. You can "unblock" programs by entering a password. Broadcasters are not required to provide content themes, so programs received with no content themes will only be blocked if you block their age-based rating. You can also block out programs that have been given a rating of "not rated," and programs that are considered "unrated" because no code has been sent by the broadcaster.

When the Parental Controls feature is turned ON the software reads a code that most broadcasters send with programs. That code tells the software the program's age-based rating (TV-MA, TV-14, etc.) and content themes (Violence (V), Adult Language (L), etc.). See "Age-Based Ratings" tables on page 12.
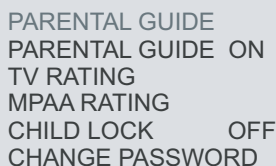
The PARENTAL GUIDE Menus

The *PARENTAL GUIDE* options allow you to limit viewing of certain channels, lock the control buttons on the main unit, and change your password. You may want to remove the remote control to prevent any changes to your parental control settings. To display one of the *PARENTAL GUIDE* menus, you must first enter your password in the *PASSWORD* menu. With the Parental Guide menu turned OFF, only the basic menu appears. With the *PARENTAL GUIDE* turned ON, the TV and Movie Rating options are included.

PARENTAL GUIDE
PARENTAL GUIDE OFF
CHILD LOCK   OFF
CHANGE PASSWORD

Parental Guide OFF

PARENTAL GUIDE
PARENTAL GUIDE ON
TV RATING
MPAA RATING
CHILD LOCK   OFF
CHANGE PASSWORD

Parental Guide ON

PARENTAL GUIDE	Select OFF to turn off the *GUIDE*. Select ON to activate V-CHIP.
TV RATING	Select the *TV RATINGS* and content themes that you want to Unblock or Block. See "Age-Based Ratings" and "Content Themes" tables on page 12.
MPAA RATING	Select the *MPAA* (Movie) *RATINGS* that you want to Unblock or Block. See MPAA Rating Table on page 13.
CHILD LOCK	Disables the TV's front panel controls. Select OFF to turn *CHILD LOCK* off. Select ON to activate it. **The CHILD LOCK feature takes effect after the TV is turned off and back on again.**
CHANGE PASSWORD	Use this option to create a new password after you've entered the initial password.

Notes: If you do not activate the PARENTAL GUIDE, none of the settings for V-Chip (Parental Control) takes effect.

If you forget your password, you can reset it. Enter 5898 as the password and then change it to a new one.

Turn On PARENTAL GUIDE

1. Press MENU (the *PICTURE* menu appears).
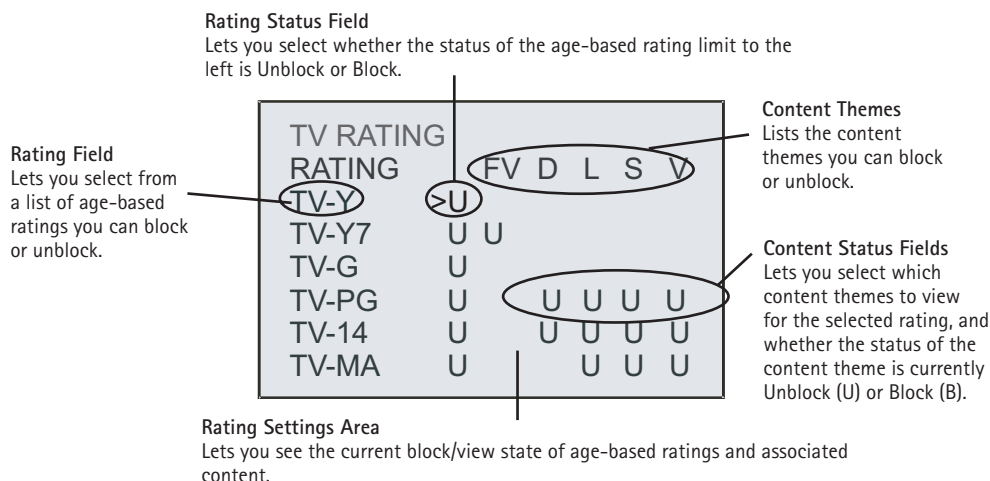2. Press the ▶ button until the PASSWORD menu appears.

3. Press the ▼ button on the remote to highlight *PASSWORD*, then press the ▶ button to access the password entry.

4. Enter your password using the number buttons on the remote (the *PARENTAL GUIDE* menu appears).

5. Press the ▼ button to highlight *PARENTAL GUIDE*.

6. Press the ▶ button to turn it on. Now you can select the TV and Movie Ratings.

The TV Rating Limit Screen Rating Screen

Rating Status Field
Lets you select whether the status of the age-based rating limit to the left is Unblock or Block.

Rating Field
Lets you select from a list of age-based ratings you can block or unblock.

Content Themes
Lists the content themes you can block or unblock.

Content Status Fields
Lets you select which content themes to view for the selected rating, and whether the status of the content theme is currently Unblock (U) or Block (B).

```
TV RATING
RATING           FV  D  L  S  V
TV-Y       >U
TV-Y7       U  U
TV-G        U
TV-PG       U       U  U  U  U
TV-14       U          U  U  U  U
TV-MA       U          U  U  U
```

Rating Settings Area
Lets you see the current block/view state of age-based ratings and associated content.

Blocking TV Ratings

You can automatically block all program ratings above a specified TV rating level when the PARENTAL GUIDE is turned ON. To block channels with higher ratings:

1. Press MENU on the remote control (the *PICTURE* menu appears).

2. Press the ▶ button until the *PASSWORD* menu appears.
   Note: If you forget your password, you can reset it. Enter 5898 as the password and then change it to a new one.

3. Press the ▼ button on the remote to highlight *PASSWORD*, then press the ▶ button to access the password entry.

4. Enter your password using the numbers buttons on the remote (the *PARENTAL GUIDE* menu appears).

5. Press the ▲/▼ button until *TV RATING* is highlighted, then press the ▶ button (the TV RATING screen shown above appears).

6. Use the ▲/▼ button to select the rating, then press the ▶ button to change the status of a TV program rating or content theme from *U* (Unblock) to *B* (Block).

7. Press OK (or MENU button on the TV's front panel) to return to the PARENTAL GUIDE menu.

The following sections give you more details about how to change the status of TV program limits.

Rating	Description and Content Themes for Age-Based Ratings
TV-MA	Mature Audience Only. Specifically designed to be viewed by adults; may be unsuitable for children under 17. Contains one or more of the following content themes: **crude indecent language (L), explicit sexual activity (S), or graphic violence (V).**
TV-14	Parents Strongly Cautioned. Contains some material that parents would find unsuitable for children under 14. Parents are strongly urged to exercise greater care in monitoring this program and are cautioned against letting children under the age of 14 watch unattended. This program contains one or more of the following content themes: **intensely suggestive dialogue (D), strong coarse language (L), intense sexual situations (S), or intense violence (V).**
TV-PG	Parental Guidance Suggested. Contains material that parents may find unsuitable for younger children. Parents may want to watch it with their younger children. The program contains one or more of the following content themes: **some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V) .**
TV-G	General Audience. Most parents would find this program suitable for all ages. Contains **little or no sexual dialogue (D), no strong language (L) little or no sexual situations (S), or violence (V).**
TV-Y7	Designed for children ages 7 and above. May be more appropriate for children who have acquired the developmental skills needed to distinguish between make-believe and reality. Themes and elements in this program may include mild **fantasy violence (FV)** or comedic violence, or may frighten children under the age of 7.
TV-Y	All Children. Themes and elements in this program are designed for a young audience, including children from ages 2-6. It is not expected to frighten younger children.

Content Themes

D	**Sexually Explicit Dialogue**
L	**Adult Language**
S	**Sexual Situations**
V	**Violence**
FV	**Fantasy Violence**

Blocking Specific Content Themes

You can block programs based on their content. (Content is represented by the FV, D, L, S, and V on your screen.) When you block a content theme for a particular rating, you automatically block that content theme for higher rated programs as well.

To block program content:

1. Determine the content themes you want to block.
2. Press and hold the ▼ button until the content theme you want to change is highlighted.
3. Press the ► button to change its status to B (Block).
4. Press OK to return to the previous menu.

Notes: Broadcasters are not required to provide content themes or age-based ratings.

You must remember to activate PARENTAL GUIDE for rating limits to take effect.

```
MPAA RATING
G                      B
PG                     B
PG-13                  B
R                      B
NC-17                  B
X                      B
```

MPAA Ratings	
G	**General Audience**
PG	**Parental Guidance**
PG-13	**Parents Strongly Cautioned**
R	**Restricted Under 17**
NC-17	**No One 17 & Under**
X	**X-Rated**

V–Chip Movie Rating Limit

Set movie rating limits by blocking movies rated above a specified level.

To access the MPAA RATING (Movie Rating Limit) menu:

1. Press MENU on the remote control (the PICTURE menu appears).

2. Press the ▶ button until the *PASSWORD* menu appears.

3. Press the ▼ button until *PASSWORD* is highlighted, then press the ▶ button to access the password entry.

4. Enter your password using the numbers buttons on the remote (the *PARENTAL GUIDE* menu appears).

5. Press the ▼ button until *PARENTAL GUIDE* is highlighted, then press the ▶ button to turn it ON.

6. Press the ▼ button until *MPAA RATING* is highlighted, then press the ▶ button (the *MPAA RATING* screen appears).

7. Use the ▼ button to select the rating, then press the ▶ button to change the status of a TV program rating or content theme from *U* (Unblock) to *B* (Block).

8. Press the OK button on the remote control to return to previous menu.

   Notes: If you forget your password, you can reset it. Enter 5898 as the password and then change it to a new one.

   You must remember to activate PARENTAL GUIDE for rating limits to take effect.

Playing Discs

DVD Basics

Regional Coding

The DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. This unit's code is **Region 1**. Discs with other regional codes can't be played in this unit.

Using Different Menus

Each disc is programmed with different features. There are two separate menu systems that you can use to access DVD features: the disc's menu and the DVD player's menu (separate from the TV's menu system). Remember that a feature only works if the disc was programmed with that feature. For example, if you choose subtitles, the subtitles only appear if the disc was created with subtitles. The DVD menu system is explained on page 16.

- **The Disc menu** – The disc menu is part of each disc and is separate from the DVD player's menu system. The contents of each disc's menu vary according to how the disc was created and what features are included. Sometimes a disc's menu appears automatically when you insert the disc, or you can access it by pressing the MENU button.

Types of Discs Your DVD Will Play

- DVD discs – Contain video.
- Audio discs – Contain musical or sound content only (such as CD, CD-R, CD-RW).
- mp3 discs – Contain audio files (for example, a CD-R with downloaded mp3 files).
- VCDs, JPEG files.

Before you load a disc, make sure that it is compatible with the player. Note that the following discs CANNOT be used with this player:

- Laserdisc
- CD-I, CD-ROM, DVD-ROM
- MiniDisc
- CD-G discs play audio only, not graphics

To Load and Play a Disc

1. Press the DVD button on the remote to make sure the unit is in the DVD mode.
2. Press the ▲ **(OPEN/CLOSE)** button on the remote to open the disc tray. 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).
3. Press the ▲ **(OPEN/CLOSE)** button again to close the disc tray.

The player reads the disc's table of contents, and then one of following happens depending on how the disc was programmed:

- No disc menu appears, a screen saver is displayed. (Press the DVD button to put the player in DVD mode.)
- The disc menu appears. (Highlight the PLAY option and press OK.)
- The disc menu appears on the screen when you press ▶/❙❙. (Highlight PLAY and press OK.)
- The disc starts playing automatically.

If no picture or screen saver is displayed, press the DVD button to put the player in the DVD mode.

Search Options

You can use the following search features with some discs:

Picture Scan
When you're playing a disc, each time you press ▶▶ (Forward) or ◀◀ (Reverse), your DVD player scans the disc faster until you reach the fastest scan speed. To resume normal playback, press ▶/❚❚ .

Chapter Advance
While a DVD is playing, press ▶▶❙ to advance to the next title or chapter. Press the ❙◀◀ button to go to the previous title or chapter.

Playback Options

With some discs, you can access playback features directly from the remote control.

Repeat

For DVD discs, press the REPEAT button on the remote to repeat a chapter. Press once more to repeat a title. Press three times to repeat the entire disc, and press four times to cancel repeat.

For audio CDs, press REPEAT to repeat a *TRACK.* Press REPEAT twice to repeat the entire (*ALL*) disc, and three times to cancel repeat.

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 up to 4X. Continuing to press ZOOM reduces the image by 1/2, 1/3, and 1/4 and then back to normal playback

2. To see other parts of the picture when you've zoomed in on the image, try pressing the ◀/▶/▲/▼ buttons to go in corresponding directions.
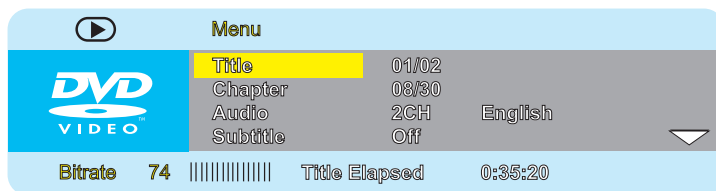
DVD Info Menu

You can display information about the disc during playback using the SKIP button. It allows you to access certain functions. Remember to use the DVD arrow buttons when changing the functions--not the TV.

Select an option using the ▲ and ▼ buttons and press OK to bring up the submenu, if supported by the DVD. Then use the ▲ and ▼ buttons on the remote control to scroll through the submenu options or the numeric buttons to enter numbers. Press OK to confirm the selection. Press the SKIP button to return to playback.

Title / Chapter

To directly access a title or a chapter:

1. Select *Title* or *Chapter* using the ▲ and ▼ button and press OK.

2. Enter a title or chapter number using the numeric buttons.

Note: Many discs only have one title.

Audio

Some discs have several audio tracks used for different languages.

To change the track and language during playback:

1. Select *AUDIO* with the ▲ and ▼ buttons and press OK.

2. Choose a language with the ▲ and ▼ buttons.

Notes: You can also change the dialogue language during playback by pressing the AUDIO button repeatedly on the remote control.

This option is only available if the disc offers a number of dialogue languages.

When you change the dialogue language using the DVD Info Menu, your choice of language is only applicable to the disc being played. When you eject the disc or switch off the player, the dialogue language will revert to the one you selected in the Preferences menu (see page 20).

Subtitles

Subtitles are disabled by default. To enable the subtitle function while the disc is playing:

1. Select *Subtitle* with the ▲ and ▼ buttons and press OK.

2. Choose a language using the ▲ and ▼ buttons or OFF.

Notes: You can also change the language of subtitles by pressing the SUBTITLE button repeatedly during playback.

When you change the language of the subtitles using the DVD Info Menu your choice of language only applies for the disc currently being played. When you eject the disc and switch off the player, the subtitles will be displayed again in the subtitle language you selected in the Preferences menu (see page 20).

Angle

Some discs offer different camera angles for specific scenes. To change the camera angle during playback:

1. Select *Angle* with the ▲ and ▼ buttons and press the OK button.

2. Enter an angle number using the numeric buttons.

Notes: You can also change a camera angle by pressing the ANGLE button.

If the disc was recorded using a single camera angle, this function is not available. There are very few discs offering more than one angle.

TT Time / CH Time

To directly access a location on the disc which does not correspond to the start of a title or a chapter:

1. Select *TT Time* or *CH Time* with the ▲ and ▼ buttons and press OK.

2. Enter a time with the numeric buttons (format h:mm:ss).

Repeat

To select a playback mode while the disc is playing:

1. Select *Repeat* with the ▲ and ▼ buttons and press OK.

2. Select a repeat playback mode with the ▲ and ▼ buttons: *Chapter, Title, ALL* or *Off.*

Note: You can also select a repeat playback mode by pressing the REPEAT button repeatedly (see page 15).

Time Display

To change the type of time display while the disc is playing:

1. Select *Time Disp.* with the ▲ and ▼ buttons and press OK.

2. **Choose a type of display with the ▲ and ▼ buttons: Title elapsed, Title remain, Chapter elapsed and Chapter remain.**

Display Info

Press the INFO button repeatedly during playback to show:

DVD: Title elapsed time, Title remaining time, Chapter elapsed time, Chapter remaining time, Display Off.

VCD, SVCD and audio CD: Single elapsed time, Single remaining time, Total elapsed time, Total remaining time, Display Off.

Note: A title or chapter can also be accessed by entering the number in the on-screen display.

DVD Menu System

The DVD player menu system lets you set up features for your DVD player. There is a different menu system that controls TV features (see page 7). The DVD setup menu is accessed with the GUIDE button.

Note: Remember to use the DVD arrow buttons when accessing the DVD player's menu system.
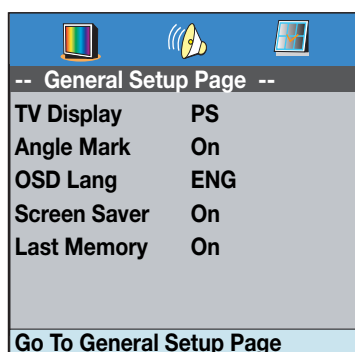
Playing Discs

DVD Menu Navigation

1. Make sure the remote is in the DVD mode by pressing the DVD button.

2. Press GUIDE. The General Setup Page menu is displayed.

3. Use the ◀ and ▶ buttons to display the different setup menus.

4. Use the ▲ and ▼ buttons to highlight a menu or option item. Use ▶ button to access the submenu and the ▲ and ▼ buttons to highlight your selection. (Use the ◀ to go back through the menu.)

5. Press the OK button to confirm your selection.

6. Press GUIDE to exit the DVD menu system.

Setup Menus

These menus are used to set up TV screen format for DVD viewing and other DVD functions.

General Setup Page 🖼️


```
-- General Setup Page --

TV Display        PS
Angle Mark        On
OSD Lang          ENG
Screen Saver      On
Last Memory       On


Go To General Setup Page
```

TV Display
TV Display is used only when the TV/DVD is connected to another TV. Choose one of the following options:

- **Normal/PS (Pan Scan):** Select this option when the TV/DVD is connected to a standard 4:3 aspect ratio TV. A 16:9 wide screen picture is shown with some of picture partly cut off.

- **Normal/LB (Letter Box):** Select this option when the TV/DVD is connected to a standard 4:3 aspect ratio TV. A full16:9 wide screen picture is shown with black bars on the top and bottom.

- **Wide:** Select this option when the TV/DVD is connected to a wide screen TV.

Angle Mark
The *ANGLE MARK* option is used when DVD discs contain scenes which have been shot simultaneously from a number of different camera angles.

Notes: Currently, very few discs have this feature.

Use the ANGLE button on the remote to access the Angle Mark.

- **ON:** Select if the DVD disc contains camera angles. An angle symbol appears on the screen.

- **OFF:** Select if the DVD disc does not contain angles.

OSD Lang
The *OSD Lang* controls the language used to display text in the DVD system menus. The default setting is English. Language options available are English, French, Italian, Portuguese, Spanish and Russian.

Screen Saver

The Screen Saver is a graphic that randomly moves around the screen to guard against screen burn-in.
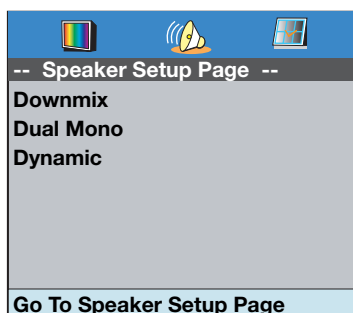
- **ON:** Screen saver turned on.

- **OFF:** Screen saver turned off.

Last Memory

The Last Memory feature enables you to resume play at the same point at which you stopped playback, even if the disc is removed and re-inserted.

- **ON:** Resumes play from where the disk was last stopped.

- **OFF:** Plays from the beginning.

The Speaker Setup Page

-- Speaker Setup Page --

Downmix
Dual Mono
Dynamic

Go To Speaker Setup Page

Downmix

Downmix allows you to downmix audio to a receiver and generate a multi-channel or stereo sound.

- **LT/RT: Select this option when connecting the TV/DVD to an audio system with Dolby Pro-Logic.**

- **Stereo: Select this option when connecting the TV/DVD to an audio system that does not have Dolby Pro-Logic.**
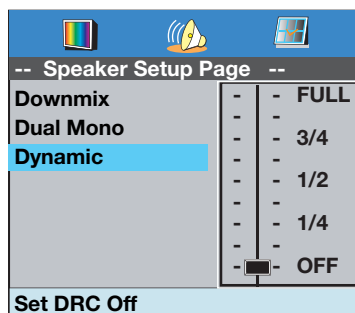
Dual Mono

Dual Mono give you a fuller, better balance of audio based on the disc that you are playing.

- **Stereo:** Select this option to output audio from the left and right channels to the left and right speakers.

- L-Mono: Select this option to output audio from the left channel to the two front speakers.

- R-Mono: Select this option to output audio on the right channel to the two front speakers.

- Mix-Mono: Select this option to hear a mixture of the left and right channels on each of the two speakers.

Playing Discs

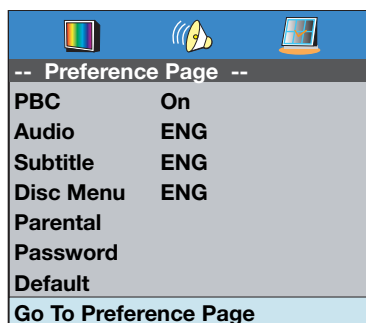|		
-- Speaker Setup Page --		
Downmix	-	- FULL
Dual Mono	-	-
	-	- 3/4
Dynamic	-	-
	-	- 1/2
	-	-
	-	- 1/4
	-	-
	- ■-	OFF
Set DRC Off		

Dynamic

This feature allows you to reduce the range between loud and low sounds to your personal preference. It increases the lowest sounds and quiets the loudest sounds. Default setting is OFF.

Use the arrow buttons to access and change the dynamic setting and press OK to confirm.

Preference Page 🖥

-- Preference Page --	
PBC	**On**
Audio	**ENG**
Subtitle	**ENG**
Disc Menu	**ENG**
Parental	
Password	
Default	
Go To Preference Page	

PBC (Playback Control)

The Playback Control function turns the Navigate feature ON or OFF. In the OFF mode, the disc begins playback without entering the disc's menu. In the ON mode, you must select play in the disc's menu.

• OFF: The disc begins playback without entering the disc's menu.

• ON: You must select *Play* in the disc's menu.

Audio

Some discs are recorded with different languages. You can select a default language so discs will play in the language of your choice, if the disc was recorded with multiple tracks. Language choices are: English, French, German, Spanish, Chinese, Japanese, Korean.

Notes: Discs are created differently and not all discs are recorded with multiple languages.

The DVD player cannot 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 is chosen.

Subtitle

This option allows you to select a language used to display subtitles (if subtitles are turned on and are available on the disc). Language choices are: English, French, German, Spanish, Chinese, Japanese, Korean Russian.

Note: Not all discs offer subtitles with multiple languages.

Disc Menu

This option allows you to select a default language for the disc's menu. Language choices are: English, French, German, Spanish, Chinese, Japanese, Korean Russian.

```
        🖼         🔊          🖥

--  Preference Page  --
PBC           On      1 KID SAF
Audio         ENG     2 G
Subtitle      ENG     3 PG
Disc Menu     ENG     4 PG 13
Parental              5 R
Password              6 NC17
Default
Set Parental Control
```

Parental Control

You can control access to the player and the type of discs your family watches with the *Parental Control* feature. DVD viewing is blocked if its rating exceeds the level that you selected. A four-digit password is required to change the level, disable the feature, or view the DVD.

Password

You must enter a valid password to gain access to Parental Controls and can change the password at any time. The default password is "8888."

To change the password, enter the current four-digit password in the *Old Password* box. Then enter the new password in the *New Password* box and again in the *Confirm Password* and press OK.

Default

The *DEFAULT* option restores the setup options to the factory settings, with the exception of *Password.* This option is available only in the stop mode or when the disc tray is open.

Playing Audio CDs

Your DVD player has many of the same features as an audio CD player. This section explains how to play audio CDs in your TV/DVD player.

Scan Disc

You can scan through the disc when you're playing it by doing the following:

1. Press the ▶▶ (Fast Forward) or ◀◀ (Reverse) button on the remote.

2. Press the button again to scan at a faster speed.

3. Press the ▶/❙❙ PLAY button at any time to resume normal playback.

Track Advance or Reverse

1. Press the ▶❙ or ❙◀ button on the remote when you're playing a disc.

2. Each time you press the button, the CD advances (or reverses) one track.

Pause

1. Press the ▶/❙❙ PLAY/PAUSE button when a disc is playing to pause the disc.

2. Press it again to resume normal playback.

Playing Discs

Playing mp3 Discs

When an mp3 disc is inserted in the player, the Disc Navigation screen appears automatically. You can change folders and songs through the Disc Nav screen. The player plays the songs in the order they were burned onto the disc.

1. Insert the mp3 disc. The folder selection screen appears.

2. Use the ▲ / ▼ buttons to select the folder you want to play and press the OK button.

3. Use the ◄ / ► / ▲ / ▼ buttons to select the files (or tracks) you want to play and press the OK button. The selected files (or tracks) play.

4. Press the STOP button to stop playback.

    Note: When you play an audio CD or mp3 disc, you can also use number buttons to select tracks, files, and folders.

Playing Picture CDs

Insert a picture CD into the disc tray. The pictures on the CD are played in a slide show.

1. To stop on a certain picture, press ▶/❙❙ **PLAY/**PAUSE.

2. Press the arrow keys to rotate the picture.

Playing CD files (JPEG or mp3)

When a CD with JPEG or mp3 files is inserted, a File Manager window is displayed. The DVD player automatically begins playback of the files on the disc. Use the arrow buttons to navigate through the folders and select files for playback.

•   When displaying JPEG files, press ►► (Fast Forward) repeatedly to change the speed of the slide show.

•   When a JPEG is displayed, use the arrow keys to rotate the picture.

    Note: This feature may not be available on all discs.

Troubleshooting

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

TV Problems

TV won't turn on
• Press the POWER button.

• Make sure the TV is plugged in.

• Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in something else.

• Something might be wrong with your remote control. Press the POWER button on the front of the TV. If the TV turns on, check the remote control solutions on page 24.

Buttons don't work
• If you're using the remote control, press the TV button first to make sure the remote is in TV mode.

• Unplug the TV for two minutes and then plug it back in. Turn the TV on and try again.

TV turns off unexpectedly
• Sleep timer might have been activated.

• Electronic protection circuit may have been activated because of a power surge. Wait 30 seconds and then turn on again. If this happens frequently, the voltage in your house may be abnormally high or low.

• Unplug TV. Wait five minutes. Plug it in again.

Blank screen
• Try another channel.

No sound, picture okay
• Maybe the sound is muted. Try pressing the volume up button to restore sound.

Can't select certain channel
• Channel may be blocked or not approved through the v-chip (Parental Control).

Noisy stereo reception
• May be a weak station. Access the SOUND menu (see page 8), highlight MODE and then choose MONO.

No picture, no sound but TV is on
• Maybe the signal type (SOURCE) is set wrong. Go to page 9 for detailed instructions.

• The channel might be blank — change channels.

• If in DVD mode, press TV, then the INPUT button twice for the CABLE or AIR channels.

Sound okay, picture poor
• Check antenna connections. Make sure all of the cables are firmly connected to the jacks.

• Try adjusting sharpness function to improve weak signals.

Black box appears on the screen
• Closed caption might be on.

NOTE: When in DVD mode, to switch back to TV mode, please press the "TV" button on the remote control,then press on the "INPUT" button and select TV.

Other Information

The Remote Control Doesn't Work

- Something might be between the remote and the remote sensor on the component. Make sure there is a clear path.

- Maybe batteries in remote are weak, dead, or installed incorrectly. Put new batteries in the remote.

- You might need to reset the remote: remove batteries and press the number 1 button for at least 60 seconds. Release the 1 button, and replace the batteries.

- Make sure remote is in the correct mode (TV or DVD).

Problems with V-Chip/Parental Controls

The rating limits don't work
- You must activate the settings.

I don't remember my password and I want to unlock the TV
- If you forget your password you can reset it. Enter 5898 as the password and then change it to a new one.

DVD Problems

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.

- If you're using forward or reverse buttons, it is normal for some distortion to appear while scanning.

A screen saver appears on the TV/DVD screen
- 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, go to the *General Setup Page* menu and turn the Screen Saver feature to off.

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 DVD player's menu.

The menu is displayed in a foreign language
• The *OSD Lang* option is set to that language. Go to the *General Setup Page* menu and select the *OSD Lang*. Select the language you prefer.

Play doesn't begin
• The rating of the title on the disc exceeds the rating limit set in the *PARENTAL* feature. Go to the *Preference Page* menu and select the *Parental*. Change the rating limit in the menu.

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.

Disc won't eject
• When you put a disc into the player, the player might 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.

Change Password
• The default password is "8888" if you forget your password. See page 21.

Switching back to TV mode when in DVD mode
• Press the TV button on the remote and then the INPUT button until the Cable/Air channels are displayed.

Other Information

Recommendations and Information Concerning Discs

CD-R and CD-RW Discs

This player can play most CD-R and CD-RW discs. However, depending on the recorder of the discs of your personal computer, the type of disc and recording method used, some discs might not play, or the performance might not meet the expected standard of quality. When playing a CD-R disc, it is completely normal for the unit to take up to 20 seconds to recognize the disc before it plays. If the disc is not recognized after a period of 20 seconds, remove the disc, and then insert it again. If after several trials, the disc cannot be recognized, make sure you have followed the recommendations below or try another type of disc.

• Whatever the actual recording capacity of a disc, do not fill it to maximum capacity.

• Use CD-R discs rather than CD-RW (re-recordable CDs), as replay of CD-RWs may sometimes not work properly.

• Use a reliable and good quality recording software.

• Before recording on a disc, close all applications on you personal computer in order to optimize the quality and reliability of recordings on the disc.

CD-R and CD-RW Discs with mp3 Format "Music" Files

In the case of discs that include mp3 files, follow not only the general recommendations for CD-R and CD-RW discs, but also the following specific recommendations:

• The format of your mp3 files should be ISO 9660 or JOLIET. These files are compatible with DOS and Windows applications as well as with Mac applications.

• Your mp3 files must have a name no longer than 12 characters as well as the suffix ".mp3". They must be recorded in the form: title.mp3. Ensure that you do not leave spaces or use special characters such as (. , / , \ , = ,+) in the name.

• Do not attempt to record protected mp3 files. Such files are coded and protected.

• Use a decompression transfer rate of at least 128 kb/sec (kilobytes/second) when recording mp3 files. Sound quality with mp3 files basically depends on the rate of compression/ decompression you choose. Getting audio CD quality sound requires an analog/digital sampling rate, that is conversion to mp3 format, of at least 128 kb/sec and up to 160 kb/sec.

However, choosing higher rates, like 192 kb/sec or more, only rarely give even better sound quality. Conversely, files with sampling rates below 128 kb/sec will not be played properly.

Important: The above recommendations cannot be taken as a guarantee that the DVD player will play mp3 recordings, or as an assurance of sound quality. You should note that certain technologies and methods for mp3 file recording on CD-Rs prevent optimal playback of these files on your DVD player (that is degraded sound quality and even, in some cases, inability of the player to read the file or files).

Information updated in December 2002

Additional Information

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 data 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 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.

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 a disc in the disc tray.

• Exterior influences such as lightning and static electricity can affect normal operation of this player. If this occurs, turn the player off and on again with the POWER button, or disconnect and then reconnect the AC power cord to the AC power outlet. The player will operate normally.

• Be sure to remove the disc and turn off the player after use.

RCA

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