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RCA

TV/VCR/DVD User's Guide

Changing Entertainment. Again.

IMPORTANT INFORMATION

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

CAUTION
THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN 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 player is designed and manufactured to respond to the Region Management Information. If the Region number of a disc does not correspond to the Region number of this DVD player, this DVD player cannot play the disc. The Region number for this player is Region No. 1.

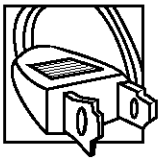
CLASS 1 LASER PRODUCT

CAUTION
RISK OF ELECTRIC SHOCK. DO NOT OPEN.

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

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

This symbol indicates important instructions accompanying the product.



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

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.

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

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

Product Registration
Please fill out the product registration card (packed separately) and return it immediately, or register on-line at www.rca.com. Returning the card 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 model numbers in case you need them. These numbers are located on the product.

Model No. _____ Serial No. _____
Purchase Date: _____
Dealer/Address/Phone: _____

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Chapter One

YOUR NEW 3WAY COMBINATION UNIT

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/VCR/DVD and/or component 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 TV/VCR/DVD.

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/VCR/DVD, route all cables down the side of the back of the TV/VCR/DVD instead of straight down the middle.
- 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.

Important Stand and Base Safety Information

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

Use Indirect Light

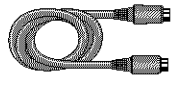
Don't place the TV/VCR/DVD where sunlight or room lighting will be directed toward the screen. Use soft or indirect lighting.

Cables Needed to Connect Components to Your TV/VCR/DVD

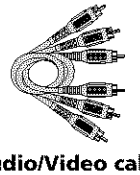
The pictures below show the cables needed for the connections represented in this book.

Notes: Audio/Video cables (A/V cables for short) are usually sold as a bundled set, but the connection picture in this book shows each cable separately for better visibility.

This TV/VCR/DVD's OPTICAL DIGITAL OUT jack fully complies with the international standard governing this type of jack (IEC958), and is designed for connection to a Dolby Digital (AC-3® or PCM) receiver or Dolby Digital (AC-3 or PCM) decoder. Older equipment, some of which is not fully compliant with IEC958, may not be compatible with the Dolby Digital bitstream. Such a connection using anything other than Dolby Digital AC-3 or PCM receiver or decoder could create a high noise level, causing damage to headphones or speakers.

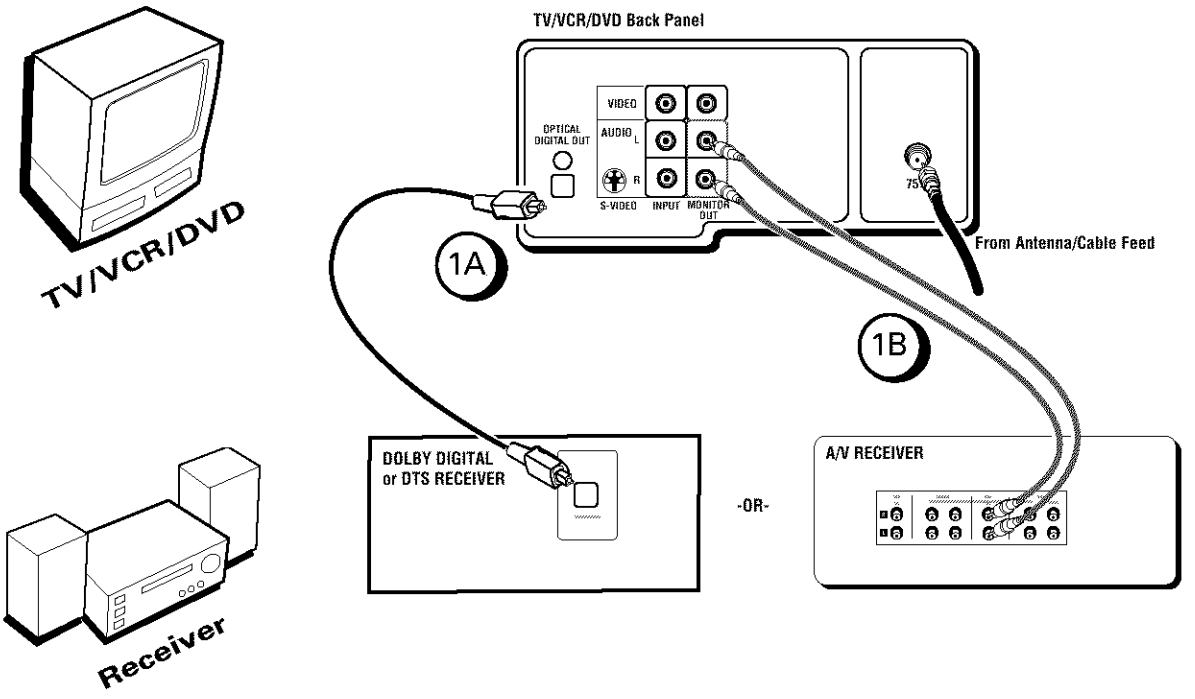


Coaxial cable



Audio/Video cable

Optical Digital cable



Dolby Digital® and DTS®

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 original movie the disc was recorded from was encoded in the Dolby Digital or DTS format.

Please Read this Before Using the OPTICAL DIGITAL OUT Jack!

This TV/VCR/DVD'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.

Make sure the Optical Out setting in the TV/VCR/DVD's sound menu is on (go to page 11).

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** DTS IS A REGISTERED TRADEMARK OF DIGITAL HOME THEATER SYSTEMS, INC.

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TV/VCR/DVD + Receiver

1A. Connect the Dolby Digital or DTS receiver to the TV/VCR/DVD

If you have a Dolby Digital or DTS receiver with a Digital Input jack, connect an optical digital cable (not provided) into the OPTICAL DIGITAL OUT jack on the TV/VCR/DVD player and to the Digital Input jack on the back of the receiver. You must also set the digital output setting in the DVD setup menu (Chapter 3 has details).

or

1B. Connect the A/V receiver to the TV/VCR/DVD

Connect the A/V cables to an A/V (audio/video) receiver. Connect audio cables to the TV/VCR/DVD's MONITOR OUT AUDIO (L and R) jacks and the other ends to the receiver's corresponding Audio Input jacks.

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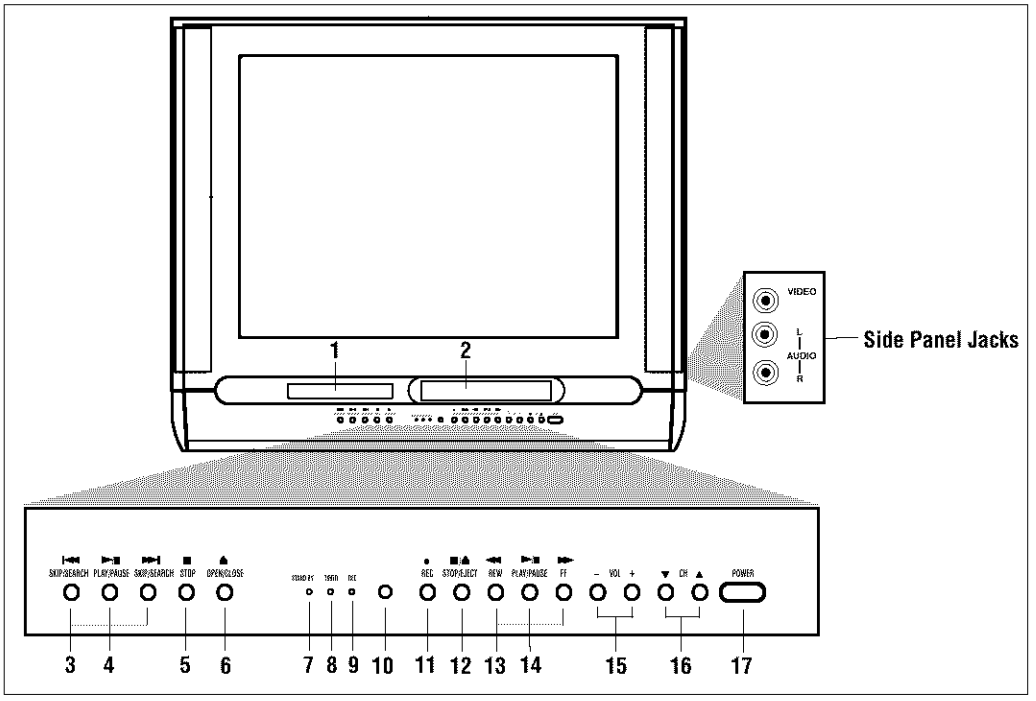
Familiarizing Yourself with The 3way Combination Unit

Front Panel Buttons

The buttons on the front panel control your 3way Combination Unit's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.



1 Disc tray
Load the disc here.

2 VCR deck
Insert a standard VHS video tape.

3 SKIP/SEARCH (DVD)
Press to skip or search the title, chapter or track.

4 PLAY/PAUSE (DVD)
Press to play or pause the disc

5 STOP (DVD)
Press to stop the disc

6 OPEN/CLOSE (DVD)
Press to open and close the disc tray.

7 STAND BY indicator
Lit when TV power is Off.

8 Timer indicator
Lit when the program times are stored.

9 REC indicator
Lit when the VCR is recording.

10 Remote Control Sensor
Aim the remote control towards this spot on the TV.

11 REC (VCR)
Press to begin recording.

12 STOP/EJECT (VCR)
Press to stop a video tape during play, record, rewind, or fast forward. Press to eject a video tape if the tape is stopped.

13 REW/FF (VCR)
Press to rewind/fast forward a videotape.

14 PLAY/PAUSE (VCR)
Press to play or pause a video tape.

15 VOL –, +
Press to increase or decrease the volume.

16 CH ▼ and ▲
Press to change channels.

17 POWER
Press to turn the TV on and off.

YOUR NEW 3WAY COMBINATION UNIT

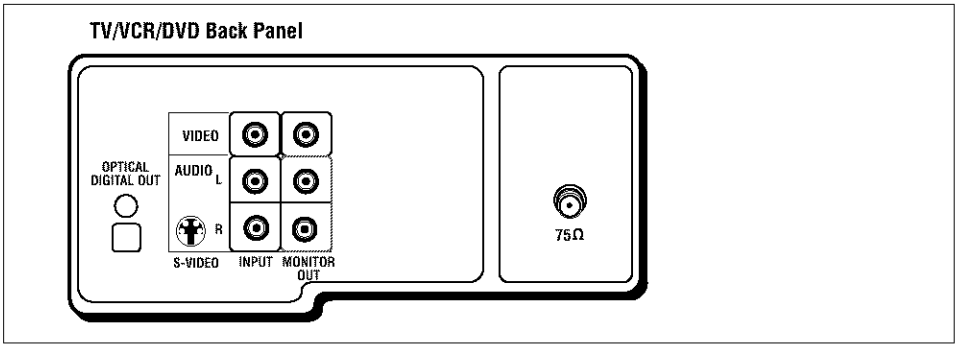
Side Panel Jacks

You can use the Side panel jacks to connect an A/V component that is used only occasionally, such as a camcorder or video game.

VIDEO IN Jack Used to connect a video signal from a camcorder or video game.
AUDIO IN Jacks Used to connect the audio signals from a camcorder or video game.

Rear Panel Jacks

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a camcorder.



75 Ω (Ant/Cable) Receives a signal from an antenna or cable system when the TV/VCR/DVD is attached with an RF cable.
AUDIO (L and R) and VIDEO INPUT Receives signals from another component, such as another VCR or camcorder, when the component is connected to these jacks. To see the content coming from the component connected to these jacks, press the INPUT button on the remote until AV appears on the screen.
AUDIO (L and R) and VIDEO MONITOR OUT Sends signals from the TV/VCR/DVD to another component, like a stereo amplifier or speakers when the other component is connected to these jacks. These jacks are shared between the DVD player output and VCR player output. The output is from the DVD player when the TV/VCR/DVD is in the DVD mode. The output is from the VCR player when the TV/VCR/DVD is in the VCR mode.
OPTICAL DIGITAL OUT Use a digital optical cable (not provided) or a shielded coaxial cable (not provided) to connect your TV/VCR/DVD player to a compatible Dolby Digital or DTS receiver or decoder. You must set Optical Out to On (instructions on page 11). Digital output is only available during DVD playback.
S-VIDEO Provides better picture quality than the VIDEO INPUT jacks because the color part of the signal is separated from the black and white part of the picture. When using S-VIDEO, make sure to connect left and right audio cables to the AUDIO L and R INPUT jacks.

YOUR NEW 3WAY COMBINATION UNIT

Remote Control (TV Function Buttons)

You can use the remote control up to about 23 feet from the TV. When using the remote, always point it directly at the TV.

1 POWER
Turns the 3way Combination Unit on and off.

2 +100
Press to select channels over 100. For example, to select channel 121, press "+100," then press "2" and "1."

3 VOL +, VOL -
Press to increase or decrease the volume.

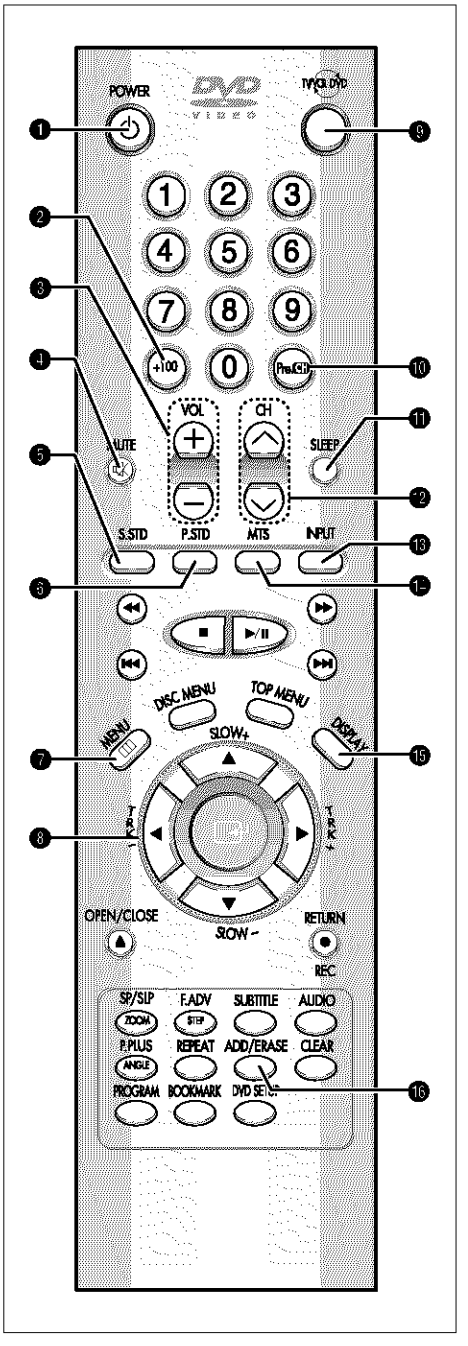
4 MUTE
Press to temporarily cut off the sound.

5 S.STD
Adjust the TV sound by selecting one of the preset factory settings (or select your personal, customized sound settings).

6 P.STD
Adjust the TV picture by selecting one of the preset factory settings (or select your personal, customized picture settings).

7 MENU
Displays the main on-screen menu.

8 Arrow buttons (up, down, left, right)
Press to move through the on-screen menus.



9 TV/VCR ↔ DVD selection
Press to switch between TV/VCR, and DVD mode.

10 PRE-CH
Tunes to the previous channel.

11 SLEEP
Press to select a preset time interval for automatic shutoff.

12 CH∨ and CH∧ (Channel Down/Up)
Press to change channels.

13 INPUT
Press to watch the TV picture or a picture from a connected component (VCR, camcorder etc...)

14 MTS (Multichannel Television Stereo)
Press to choose stereo, mono or Separate Audio Program (SAP broadcast).

15 DISPLAY
Press to see the channel, time, current disc mode, audio/video settings etc., on-screen.

16 ADD/ERASE
Press to add or erase channels in the TV's memory.

YOUR NEW 3WAY COMBINATION UNIT

Remote Control (DVD Function Buttons)

1 Search
Press to search forward/backward through a disc.

2 Stop
Press to stop a disc.

3 DISC MENU
Press to display the disc menu.

4 ENTER
Confirms a selection.

5 OPEN/CLOSE
Press to open or close the disc tray.

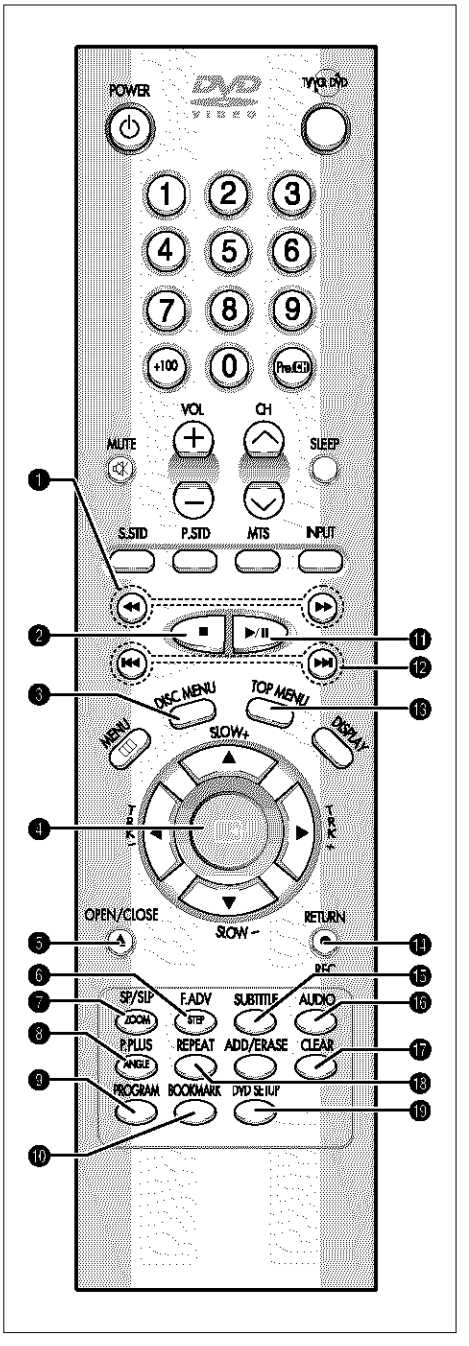
6 STEP
Press to advance play one frame at a time.

7 ZOOM
Press to zoom-in during playback, slow motion or pause mode on the selected area of a scene.

8 ANGLE
Press to access various camera angles on a DVD.

9 PROGRAM
For random and program play.

10 BOOKMARK
Press to memorize scenes for replay.



11 Play/pause
Press to play or pause disc play.

12 Skip
Press to skip the title, chapter, or track.

13 TOP MENU
Press to display the top menu on a DVD or CD/VCD disc.

14 RETURN
Press to return to a previous menu or exit.

15 SUBTITLE
Press to display the subtitle language on-screen.

16 AUDIO
Press to access various audio functions on a disc.

17 CLEAR
Press to clear on-screen displays.

18 REPEAT
Press to repeat a title, chapter, track, or disc.

19 DVD SETUP
Displays the DVD Setup menu.

YOUR NEW 3WAY COMBINATION UNIT

Remote Control (VCR Function Buttons)

1 REW/FF
Press to rewind/fast forward a video tape.

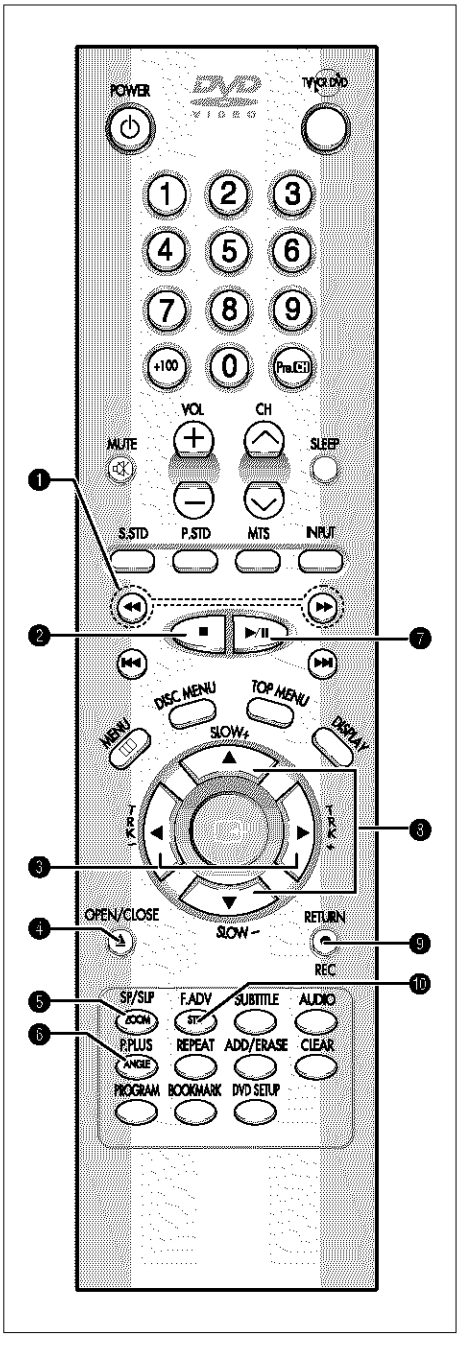
2 Stop
Press to stop a video tape.

3 TRK+, – (tracking)
Press to adjust tape tracking.

4 OPEN/CLOSE
Press to eject a tape.

5 SP/SLP
Press to select the tape recording speed.

6 P.PLUS
Press to compensate for a poor rental tape.



7 Play/pause
Press to play or pause a tape.

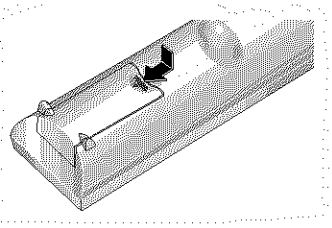
8 SLOW+, –
Press to watch a tape in slow motion.

9 REC
Press to begin recording.

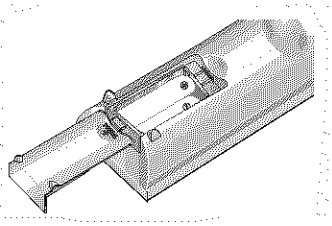
10 F.ADV (frame advance)
Press to advance a tape frame-by-frame.

Installing Batteries in the Remote Control

1
Slide the cover out completely.

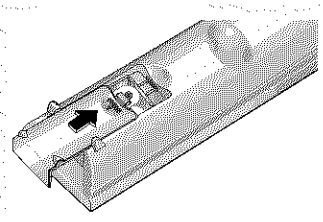


2
Install two AA size batteries.



Make sure to match the "+" and "–" ends of the batteries with the diagram inside the compartment.

3
Replace the cover.



Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

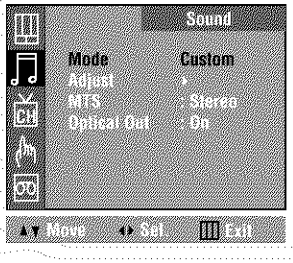
The remote control can be used up to about 23 feet from the TV.

(Assuming typical TV usage, the batteries last for about one year.)

Setting the Optical Out jack (Only DVD mode)

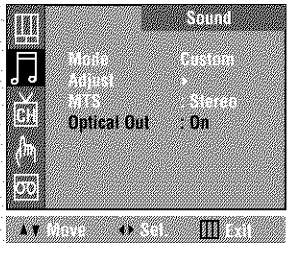
1
Press the **MENU** button.

Press the DOWN arrow button to select the Sound icon, then press the RIGHT arrow button to access the Sound menu options.



2
Press the DOWN arrow button to select "Optical", then press the RIGHT arrow button to select "On" or "Off".

Press the **MENU** button to exit.



Note: The Optical Out function in the menu doesn't appear while a normal TV channel (RF channel) is being watched.

Chapter Two

TV Operation

Turning the TV On and Off

Press the **POWER** button on the remote control.

You can also use the Power button on the front panel.

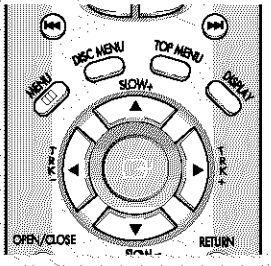
Viewing the Menus and On-Screen Displays

Viewing the Menus

1

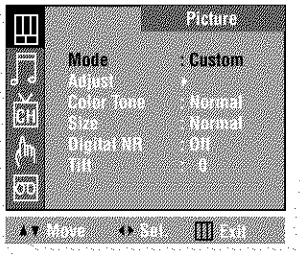
With the power on, press the **MENU** button.

The main menu appears on the screen: Picture, Sound, Channel, Function and VCR setup.



2

Use the UP/DOWN buttons to select one of the 5 items. Then press the LEFT/RIGHT buttons to access the item's sub-menu.



3

Press the **MENU** button to exit.

The on-screen menus disappear from the screen after about thirty seconds.

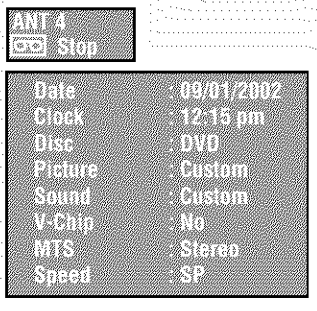
Viewing the Display

The display identifies the current channel and the status of certain audio-video settings.

1

Press the **DISPLAY** button on the remote control.

The TV will display the channel, Time, disc mode, the status of certain picture and sound settings, V-chip and the type of sound.



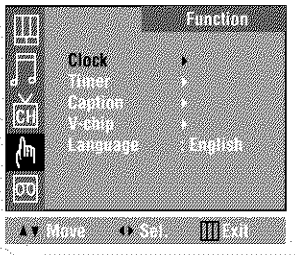
The on-screen displays disappear after about ten seconds.

Selecting a Menu Language

1

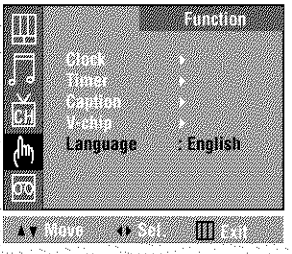
Press the **MENU** button to display the menu.

Press the DOWN arrow button to select the Function icon. Press the RIGHT arrow button once to access the Function menu options.



2

Press the DOWN arrow button to select "Language".
Press the RIGHT arrow button to select the appropriate language: English, Spanish, or French.



3

Press the **MENU** button to exit.

Memorizing the Channels

Your TV can memorize and store all of the available channels for both "off-air" (antenna) and cable channels. After the available channels are memorized, use the CH up and down buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).

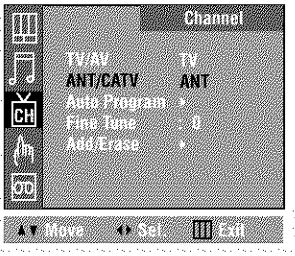
Selecting the Video Signal-source

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).

1

Press the **MENU** button to display the menu.

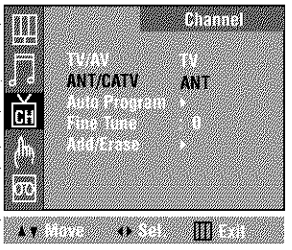
Press the DOWN arrow button to select the Channel icon.
Press the RIGHT arrow button once to access the Channel menu options.



2

Press the DOWN arrow button to select "ANT/CATV".

Repeatedly press the RIGHT arrow button to cycle through these choices: ANT (antenna), STD, HRC or IRC (all cable TV).



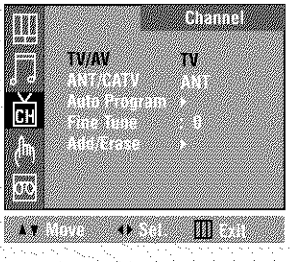
Note: STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.

Storing Channels in Memory (Automatic Method)

1

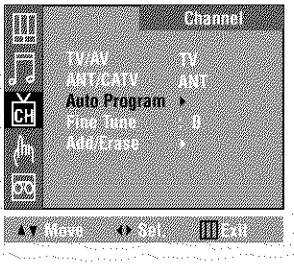
Make sure the correct signal source (ANT, STD, HRC, IRC) has been selected. See steps 1~2 on previous page.

Press the DOWN arrow button to select the Channel icon, then press the RIGHT arrow button to access the Channel menu options.



2

Press the DOWN arrow button to select "Auto Program".



3

Press the RIGHT arrow button. The TV begins memorizing all of the available channels.

4

After all the available channels are stored, the Auto program menu disappears. Press the **MENU** button to exit.

The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes.

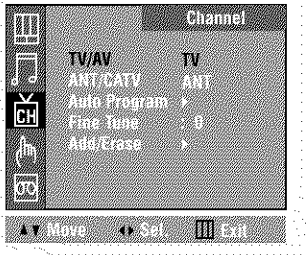
Press the RIGHT button at any time to interrupt the memorization process and return to the Channel menu.

Adding and Erasing Channels (Manual Method)

1

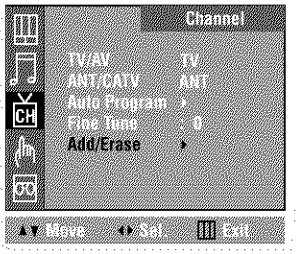
Press the **MENU** button to display the menu.

Press the DOWN arrow button to select the Channel icon.
Press the RIGHT arrow button once to access the Channel menu options.



2

Press the DOWN arrow button to select "Add/Erase", then press the RIGHT arrow button to access the Add/Erase menu.



3

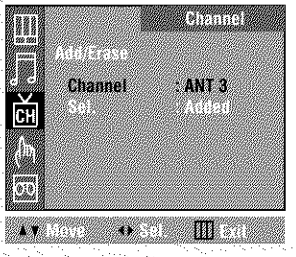
Press the LEFT/RIGHT arrow buttons to select the channel you want to add or erase.

4

Press the DOWN arrow button to select "Sel.".

Press the RIGHT arrow button to select "Added" or "Erased".

Press the **MENU** button to exit.



You can view any channel (including an erased channel) by using the number buttons or UP/DOWN buttons on the remote control.

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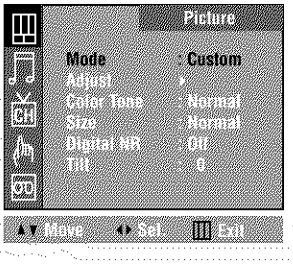
Customizing the Picture

You can use the on-screen menus to change the contrast, brightness, tint, color, and sharpness according to personal preference. (Alternatively, you can use one of the "automatic" settings. See next page.)

1

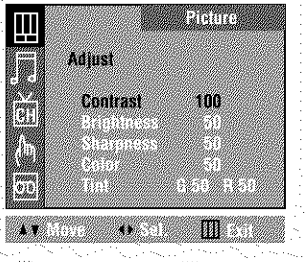
Press the **MENU** button to display the menu (the Picture menu is automatically displayed). Press the RIGHT arrow button to select Mode.



2

Repeatedly press the RIGHT arrow button until "Custom" is selected.

Press the DOWN arrow button to select "Adjust", then press the RIGHT arrow button to display the Adjust menu.



3

Press the UP/DOWN arrow buttons to select the item you want to adjust.
Press the LEFT/RIGHT arrow buttons to increase or decrease the value of a particular item.

4

Press the **MENU** button to exit.

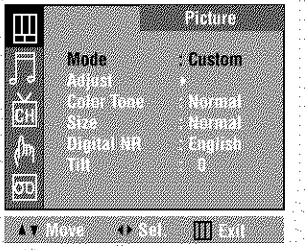
After adjusting an item, the gauge will automatically disappear (after about 3 seconds).

Using Automatic Picture Settings

Your TV has automatic picture settings ("Dynamic", "Standard" and "Movie) that are preset at the factory. You can activate these by pressing P.STD (or by making a selection from the menu). Or, you can select "Custom" which automatically recalls your personalized picture settings.

1

Press the **MENU** button to display the menu. (the Picture menu is automatically displayed) Press the RIGHT arrow button to select Mode.



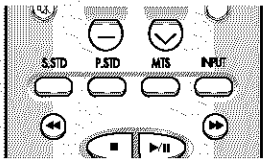
2

Press the RIGHT arrow button to select the "Dynamic" "Standard," "Movie" or "Custom" picture setting.

Press the **MENU** button to exit.

Alternate method:

Simply press the **P.STD** button on the remote control to select one of the standard picture settings.



- Choose *Dynamic* for viewing the TV during the day or when there is bright light in the room.
- Choose *Standard* for the standard factory settings.
- Choose *Movie* when viewing a movie.
- Choose *Custom* if you want to adjust the settings according to personal preference.

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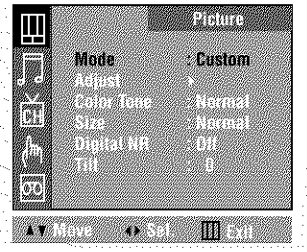
Changing the Color Tone

1

Press the **MENU** button to display the menu.

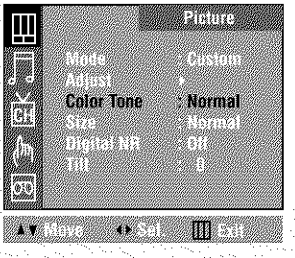
Press the RIGHT arrow button to access the Picture menu options.



2

Press the DOWN arrow button to select Color Tone.

Press the RIGHT arrow button to select "Cool2", "Cool1", "Normal", "Warm1" or "Warm2" according to personal preference.



3

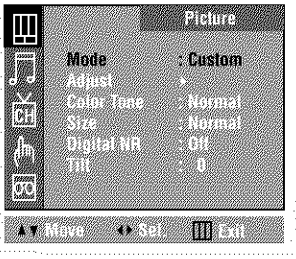
Press the **MENU** button to exit.

Changing the Screen Size

1

Press the **MENU** button to display the menu.

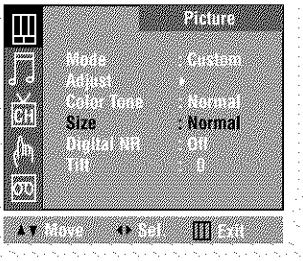
Press the RIGHT arrow button to access the Picture menu options.



2

Press the DOWN arrow button to select "Size".

Press the RIGHT arrow button to select "Normal", "Zoom" or "16:9".



3

Press the **MENU** button to exit.

- Normal : Sets the picture to 4:3 normal mode. This is a standard TV screen size.
- Zoom : Sets the picture to Zoom mode.
- 16:9 : Sets the picture to 16:9 mode.

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Fine Tuning Channels

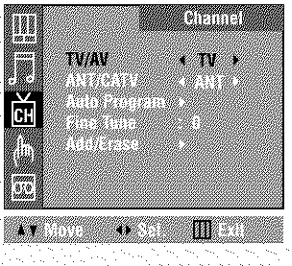
Use fine tuning to manually adjust a particular channel for optimal reception.

1

Select the appropriate channel.

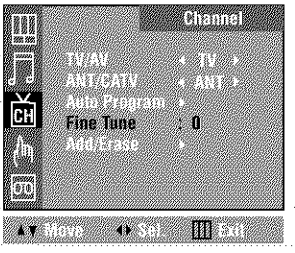
Press the **MENU** button to display the menu.

Press the DOWN arrow button to select the Channel icon. Press the RIGHT arrow button to access the Channel menu options.



2

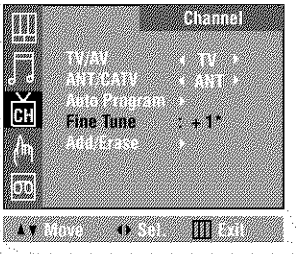
Press the DOWN arrow button to select "Fine tune". Press the LEFT/RIGHT buttons to adjust the fine tuning.



3

To store the fine tuning setting in the TV's memory, press the **UP** button. (An asterisk "*" will appear.)

To reset the fine tuning to "0," press the **DOWN** button.



4

Press the **MENU** button to exit.

◄ After you adjust the fine tuning, the color of Channel No. will turn red if you press the DISPLAY button while watching this channel.

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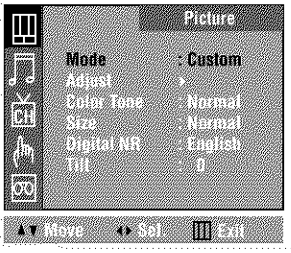
Digital Noise Reduction

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

1

Press the **MENU** button to display the menu.

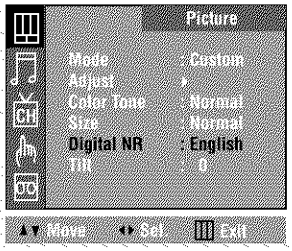
Press the RIGHT arrow button to access the Picture menu options.



2

Press the DOWN arrow button to select "Digital NR".

Press the RIGHT arrow button to select Digital NR "On".



3

Press the **MENU** button to exit.

◄ Pressing the LEFT/RIGHT buttons will alternate between "On" and "Off".

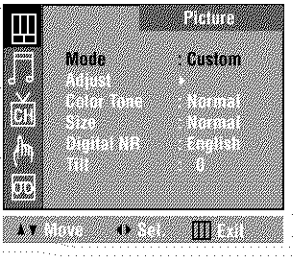
Tilt

Due to the Earth's magnetic field there may be some minor image tilt depending on the TV's location. When this occurs, follow the steps below.

1

Press the **MENU** button to display the menu.

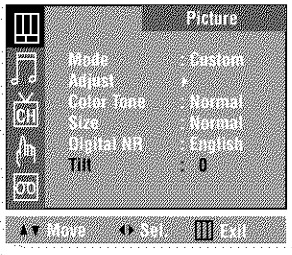
Press the RIGHT arrow button to access the Picture menu options.



2

Press the DOWN arrow button to select "Tilt".

Press the LEFT/RIGHT arrow button to adjust the Tilt.



3

Press the **MENU** button to exit.

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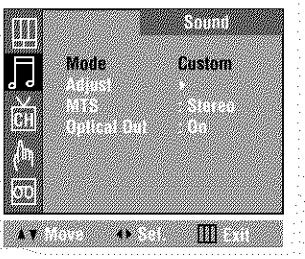
Customizing the Sound

The sound settings can be adjusted to suit your personal preferences. (Alternatively, you can use one of the "automatic" settings. See bottom of the page.)

1

Press the **MENU** button to display the menu.

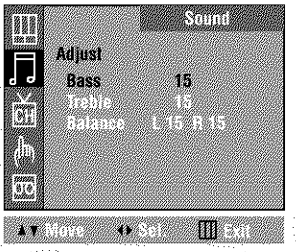
Press the DOWN arrow button to select the Sound icon, then press the RIGHT arrow button to access the Sound menu options.



2

Press the right arrow until Custom is chosen.

Press the DOWN arrow button to select "Adjust", then press the RIGHT arrow button to access the Adjust menu options.



3

Press the UP/DOWN arrow buttons to select a particular item.

Press the LEFT/RIGHT arrow buttons to increase or decrease the value of a particular item.

4

Press the **MENU** button to exit.

◄ After adjusting an item, the gauge will automatically disappear (after about 3 seconds).

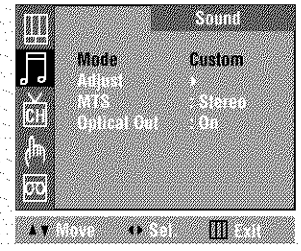
Using Automatic Sound Settings

Your TV has four automatic sound settings ("Standard," "Music," "Movie" and "Speech") that are preset at the factory. You can activate any of them by pressing the S.STD button (or by making a selection from the on-screen menu). Or, you can select "Adjust," which automatically recalls your personalized sound settings.

1

Press the **MENU** button to display the menu.

Press the DOWN arrow button to select the Sound icon, then press the RIGHT arrow button to access the Sound menu options.



2

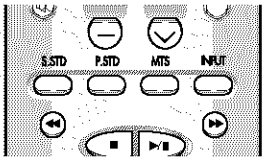
Press the RIGHT arrow button to select the "Standard," "Music," "Movie," "Speech" or "Custom" sound setting.

Press the **MENU** button to exit.

- Choose *Standard* for the standard factory settings.
- Choose *Music* when watching music videos or concerts.
- Choose *Movie* when watching movies.
- Choose *Speech* when watching a show that is mostly dialogue (i.e., news).
- Choose *Custom* to recall your personalized settings.

Alternate method:

Simply press the **S.STD** button on the remote control to select one of the standard sound settings.



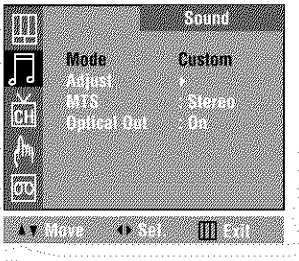
Choosing a Multi-Channel Soundtrack (MTS)

Depending on the particular program being broadcast, you can listen to stereo, mono, or a Separate Audio Program. (SAP audio is usually a foreign-language translation. Sometimes SAP has unrelated information like news or weather.)

1

Press the **MENU** button to display the menu.

Press the DOWN arrow button to select the Sound icon. Press the RIGHT arrow button to access the Sound menu options.



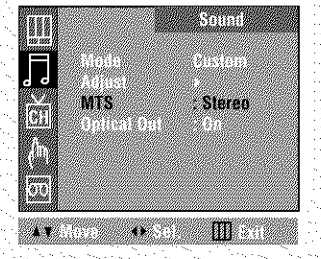
2

Press the DOWN arrow button to select "MTS".

Press the RIGHT arrow button repeatedly to select "Mono," "Stereo" or "SAP".

3

Press the **MENU** button to exit.



- Choose *Mono* for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose *Stereo* for channels that are broadcasting in stereo.
- Choose *SAP* to listen to the Separate Audio Program, which is usually a foreign-language translation.

Alternate method:

You can also change the MTS setting by pressing the "MTS" button on the remote control.

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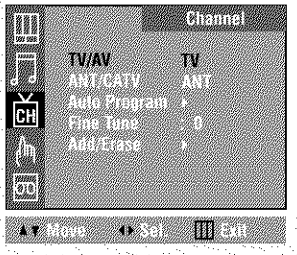
Viewing a VCR or Camcorder Tape

You must select the appropriate mode in order to view the VCR or Camcorder signal on the TV.

1

Press the **MENU** button to display the menu.

Press the DOWN arrow button to select the Channel icon, then press the RIGHT arrow button to access the Channel menu options.



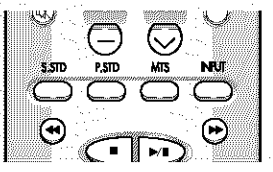
2

Press the RIGHT arrow button to switch between viewing the signals coming from equipment connected to the TV's A/V jacks, and the TV signal.

Press the **MENU** button to exit.

Alternate method:

Simply press the **INPUT** button on the remote control one or more times until the required input is displayed.



Setting the Clock

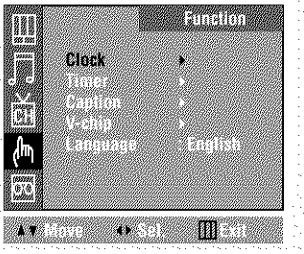
Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV (press the DISPLAY button).

Option 1: Setting the Clock Manually

1

Press the **MENU** button to display the menu.

Press the DOWN arrow button to select the Function icon, then press the RIGHT arrow button to select Clock. Press the RIGHT arrow again to set the clock.



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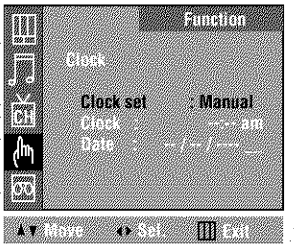
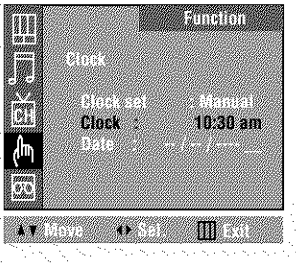
2
Press the RIGHT arrow button to select "Manual".



3
Press the DOWN arrow button to select "Clock", then press the RIGHT arrow button to highlight the hour setting.

Press the UP/DOWN arrow buttons repeatedly until the correct hour appears.

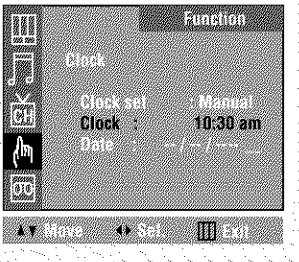


◄ When selecting the hours, be sure to select the proper time of day (am or pm).

You can change the hours by pressing the **UP** or **DOWN** arrow button repeatedly (or by holding down either of these buttons).

4
After the hour is entered, Press the RIGHT arrow button (the minutes setting is highlighted). Press the UP/DOWN arrow buttons to select the correct minutes.

After selecting the correct minutes, press the RIGHT arrow button.

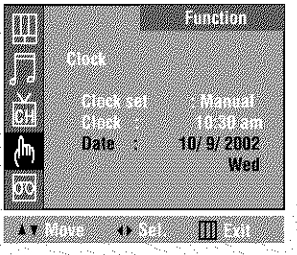


◄ The time will appear every time you press the DISPLAY button.

Setting the Date

5
Press the DOWN arrow button to select "Date", then press the RIGHT arrow button to highlight the month setting.

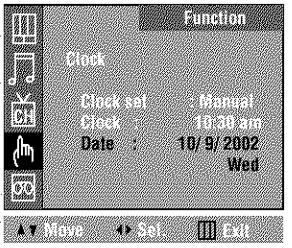
Press the UP/DOWN arrow buttons to set the current month.



6
Press the RIGHT arrow button, then press the UP/DOWN arrow buttons to set the current day.

7

Press the RIGHT arrow button, then press the UP/DOWN arrow buttons to set the current year.

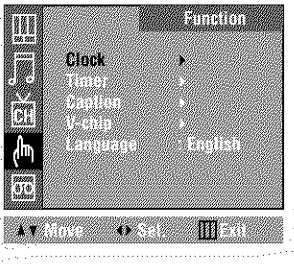


◄ If you make a mistake, press the LEFT arrow to move back to the incorrect item. Press the UP/DOWN arrow buttons to change the item.

Option 2: Using the Local PBS Channel to Automatically Set the TV Clock

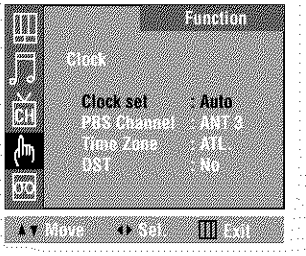
1

Follow Step 1 from Option 1: Setting the Clock Manually.



2

Press the RIGHT arrow button to select "Auto".

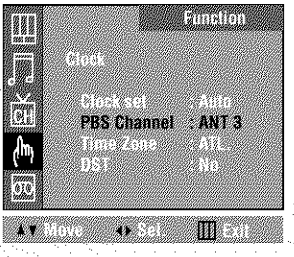


3

Press the DOWN arrow button to select "PBS channel", then press the RIGHT arrow button to activate the channel-number field.

Press the UP/DOWN arrow buttons to select your local PBS channel.

Press the RIGHT arrow button.



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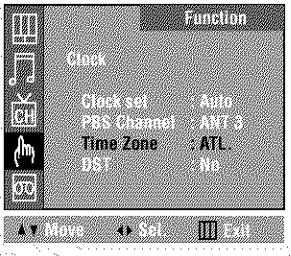
4

Press the DOWN arrow button to select "Time Zone", then press the RIGHT arrow button to change the Time zone. Sequence: ATL., EAST, CEN., MTN., PAC., ALAS., HAW..

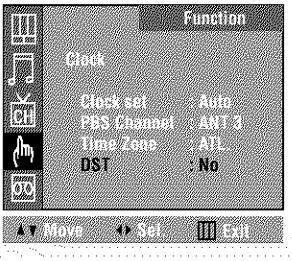


5

Press the DOWN arrow button to select "DST" (Daylight saving time), then press the RIGHT arrow button to indicate "Yes" or "No".

The clock is set.

Press the **MENU** button to exit.

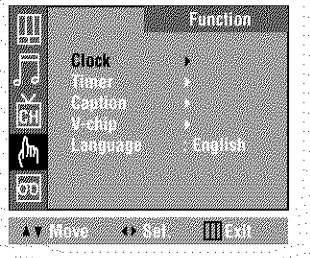


Setting the On/Off Timer

1

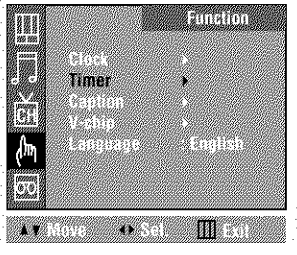
Press the **MENU** button to display the menu.

Press the DOWN arrow button to select the Function icon. Press the RIGHT arrow button to access the Function menu options.



2

Press the DOWN arrow button to select "Timer", then press the RIGHT arrow button.



◄ Before using the timer, you must set the TV's clock. (See Setting the Clock on page 23).

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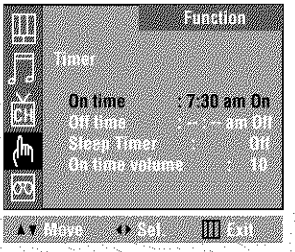
3

Press the DOWN arrow button to select "On Time."

Press the RIGHT arrow button to highlight the hours setting.

Press the UP/DOWN arrow buttons repeatedly to select the appropriate hour (i.e., the hour when the TV will turn on.)



◄ When you set the hours, make sure the correct time of day (am or pm) appears to the right of the hour.

4

Press the RIGHT arrow button to highlight the minutes setting.

Press the UP/DOWN arrow buttons repeatedly to select the appropriate minutes.

5

Press the RIGHT arrow button to highlight "Off".

Press the DOWN arrow button to turn the on timer "On." (Repeatedly pressing the UP/DOWN arrow buttons will alternate between On and Off.)

◄ To deactivate the "On time," select "Off" during this step.

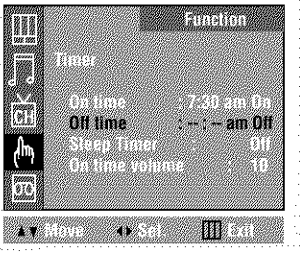
6

When finished, press the RIGHT arrow button.

7

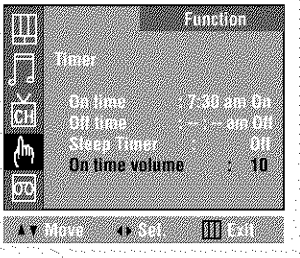
To set the Off time, press the DOWN arrow button to select "Off Time".

Press the RIGHT arrow button to set the hour and minutes. (Follow the same procedure as in steps 3~6.)



8

If you want to set the volume level when the TV turns on, press the DOWN arrow button to select "On time volume". Press the LEFT/RIGHT arrow buttons to set the volume level you want when the TV turns on.



9

When finished setting the timer, press the **MENU** button to exit.

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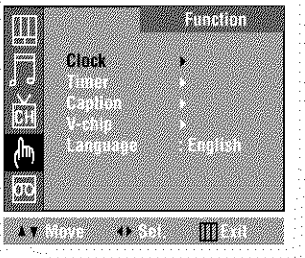
Setting the Sleep Timer

The sleep timer automatically shuts off the TV after a preset time (from 15 to 180 minutes).

1

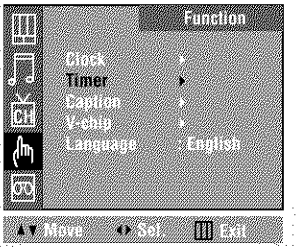
Press the **MENU** button to display the menu.

Press the DOWN arrow button to select the Function icon. Press the RIGHT arrow button to access the Function menu options.



2

Press the DOWN arrow button to select "Timer", then press the RIGHT arrow button to display the Timer menu options.

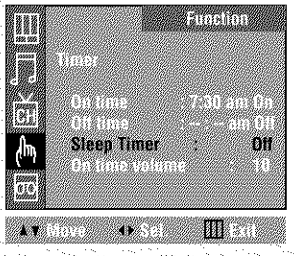


3

Press the DOWN arrow button to select "Sleep Timer."

Press the RIGHT arrow button repeatedly until the appropriate time interval appears (any of the preset values from "Off" to "180").

Press the **MENU** button to exit.



Alternate method:

Simply press **SLEEP** repeatedly until the appropriate time interval appears (any of the preset values from "Off" to "180"). After about 3 seconds, the sleep display will disappear from the screen, and the time interval will be set.

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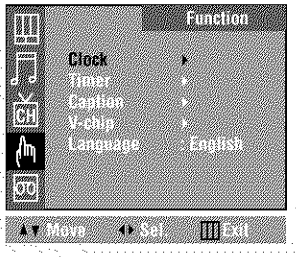
Viewing Closed Captions

Your TV decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most DVDs and pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging: CC .

1

Press the **MENU** button to display the menu.

Press the DOWN arrow button to select the Function icon. Press the RIGHT arrow button to access the Function menu.

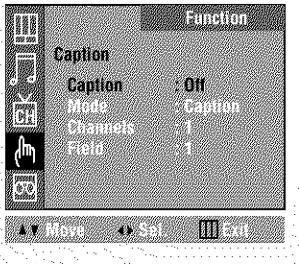


2

Press the DOWN arrow buttons to select "Caption", then press the RIGHT arrow button to display the Caption menu options.

3

Press the RIGHT arrow buttons to turn closed captioning on/off.

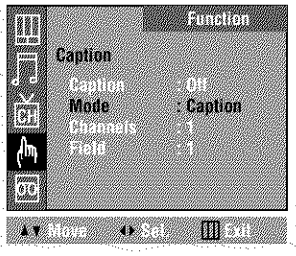


◄ Misspellings and unusual characters sometimes occur during closed caption transmissions, especially those of live events. There may be a small delay before captions appear when you change channels. These are not malfunctions of the TV.

4

Press the DOWN arrow buttons to select "Mode".

Press the RIGHT arrow button to select "Caption" or "Text."



◄ In **caption mode**, captions appear at the bottom of the screen, and they usually cover only a small portion of the picture.

In **text mode**, information unrelated to the program, such as news or weather, is displayed. Text often covers a large portion of the screen.

5

Depending on the particular broadcast, it might be necessary to make changes to "Channels" and "Field":
Use the UP/DOWN arrow buttons and LEFT/RIGHT arrow buttons to make the changes. (Follow the same procedure as in steps 3~4 above.)
Press the **MENU** button to exit.

◄ Different channels and fields display different information: Field 2 carries additional information that supplements the information in Field 1. (For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish.)

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Using the V-Chip

The V-Chip feature automatically locks out programming that is deemed inappropriate for children. The user must first enter a PIN (personal ID number) before any of the V-Chip restrictions can be set up or changed.

How the V-Chip Works

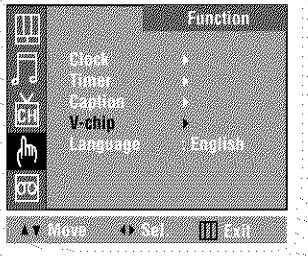
When the V-Chip software is activated (or turned on), it reads a code that most broadcasters send with programs. That code tells the software the program's age-based rating (TV-MA, TV-14, etc.) and content themes [(Violence (V), Adult Language (L), etc.)]. If you have blocked the rating and/or content themes that the program contains, a message appears and the channel won't be available for viewing. Broadcasters aren't required to provide content themes, so programs that aren't tagged with a content theme can only be blocked if you block their age-based rating.

Setting Up Your Personal ID Number (PIN)

1

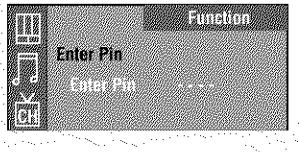
Press the **MENU** button to display the menu.

Press the DOWN arrow button to select the Function icon. Press the RIGHT arrow button to access the Function menu options.



2

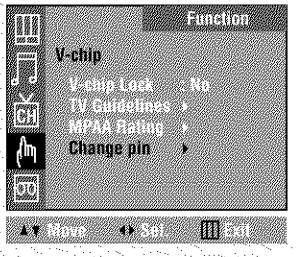
Press the DOWN arrow button to select "V-Chip". Then press the RIGHT arrow button.



The "Enter pin" screen will appear. Enter your 4-digit PIN number. Note: The default PIN number for a new TV set is "**0-0-0-0.**"

3

After entering a valid PIN number, the "V-chip mode" screen will appear. Press the DOWN arrow buttons to select "Change pin". Press the right arrow to display the Change Pin screen.



4

Choose any 4-digits for your PIN and enter them.

As soon as the 4 digits are entered, the "Confirm new pin" screen appears. Re-enter the same 4 digits. When the Confirm screen disappears, your PIN has been memorized. Press the **MENU** button to exit.

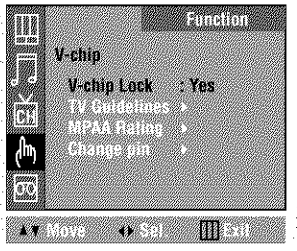
Note: If you forget the PIN, press the remote control buttons in the following sequence, which resets the pin to 0-0-0-0: POWER OFF → MUTE → 8 → 2 → 4 → POWER ON.

TV OPERATION

How to Enable/Disable the V-Chip

1
Follow Steps 1-2 from Setting Up Your Personal ID Number (PIN).

2
To enable the V-Chip feature, press the RIGHT arrow button so that the "V-Chip Lock" field is Yes. (Pressing the LEFT/RIGHT arrow buttons will alternate between Yes and No.)

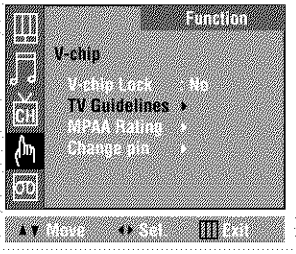


How to Set up Restrictions Using the "TV guidelines"

First, set up a personal identification number (PIN), and enable the V-Chip. (See previous page.) Parental restrictions can be set up using either of two methods: The TV guidelines or the MPAA rating.

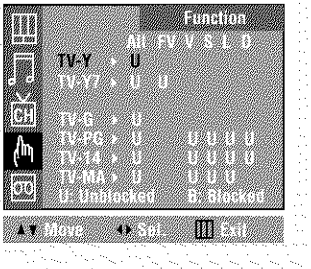
1
Again, follow Steps 1-2 from Setting Up Your Personal ID Number (PIN).

2
Press the DOWN arrow button to select "TV Guidelines".



3
Press the RIGHT arrow button. The "TV guidelines" screen appears. Press the DOWN arrow button to select one of the six age-based categories:

TV-Y	Young children
TV-Y7	Children 7 and over
TV-G	General audience
TV-PG	Parental guidance
TV-14	Viewers 14 and over
TV-MA	Mature audience



◄ Note: These categories consist of two separate groups: TV-Y and TV-Y7 (young children through age 7), and TV-G through TV-MA (everybody else).

The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group. (See next step.)

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4

At this point, one of the TV-Ratings is selected.

Press the RIGHT arrow button: Depending on your existing setup, a letter "U" or "B" will be selected. (U= Unblocked, B= Blocked)

While the "U" or "B" is selected, press the UP/DOWN arrow buttons to block or unblock the category. Press the RIGHT arrow button to save the TV guidelines. A TV-Rating will be selected. To select a different TV-Rating, press the UP/DOWN arrow buttons and then repeat the process.

Note 1: The TV-Y7, TV-PG, TV-14 and TV-MA have additional options. See the next step to change any of the following sub-ratings:

FV: **F**antasy **v**iolence
D: Sexual suggestive **d**ialog
L: Adult **l**anguage
S: **S**exual situation
V: **V**iolence

Note 2: The V-Chip will automatically block certain categories that are "more restrictive."For example, if you block "TV-Y" category, then TV-Y7 will automatically be blocked. Similarly, if you block the TV-G category, then all the categories in the "young adult" group will be blocked (TV-G, TV-PG, TV-14 and TV-MA). The sub-ratings (D, L, S, V) work together similarly. (See next section.)

5

How to set the FV, D, L, S and V sub-ratings.

First, select one of these TV-Ratings: TV-Y7, TV-PG, TV-14 or TV-MA (See Step 4, on previous page).
Next, while the TV-Rating is selected, repeatedly press the RIGHT arrow button. This will cycle through the available sub-ratings (FV,L, S, D or V).

A letter "U" or "B" will be displayed for each sub-rating. While the "U" or "B" is selected, press the DOWN arrow button to change the sub-rating. Press the RIGHT arrow button to save the TV guidelines. A TV-Rating will be selected. To select a different TV-Rating, press the UP/DOWN arrow buttons and then repeat the process.

Note: The V-chip will automatically block certain categories that are "More restrictive". For example, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.

6

Press the **MENU** button to clear all the screens. (Or proceed to the next section, and set up additional restrictions based on the MPAA codes).

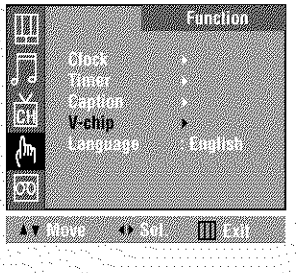
How to Set up Restrictions using the MPAA Ratings: G, PG, PG-13, R, NC-17, X

The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies. (Eventually, movie videocassettes and DVDs will be encoded with MPAA ratings.) When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable ratings (either MPAA or TV-Ratings).

1

Press the **MENU** button to display the menu.

Press the DOWN arrow button to select the Function icon, then press the RIGHT arrow button to access the Function menu options.



2

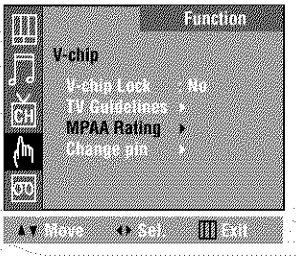
Press the DOWN arrow button to select "V-Chip".

3

Press the RIGHT arrow button to enter your 4-digit PIN number.

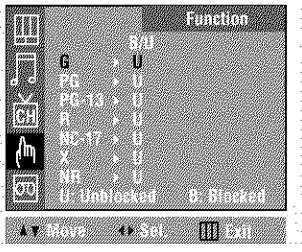
4

Press the DOWN arrow button to select the "MPAA Rating." Press the RIGHT arrow button to display the MPAA Rating screen.



5

Repeatedly press the UP/DOWN arrow buttons to select a particular MPAA category.



G	General audience (no restrictions).
PG	Parental guidance suggested.
PG-13	PG-13 (Parents strongly cautioned).
R	R (Restricted. Children under 17 should be accompanied by an adult).
NC-17	No children under age 17.
X	X (Adults only).
NR	Not rated.

While a particular category is selected, press the **LEFT/RIGHT** arrow buttons to activate it. A letter ("U" or "B") will be selected. Press the **DOWN** arrow button to select "U" or "B".

Press the **RIGHT** arrow button to save the settings and press the **MENU** button to exit.

Note: The V-Chip will automatically block any category that is "more restrictive." For example, if you block the "PG-13" category, then "R," "NC-17," and "X" will automatically be blocked also.

How to Reset the TV after the V-Chip Blocks a Channel ("Emergency Escape")

If the TV is tuned to a restricted channel, the V-Chip will block it. The screen will go blank and the following message will appear: "Excessive rating."

To resume normal viewing, tune to a different channel using the number buttons. Under certain conditions (depending on the rating of the local TV programs) the V-Chip might lock out all the channels. In this case, use the V-Chip button for an "emergency escape":

1. Select V-Chip from the Function menu.
2. Enter your PIN number, and press the RIGHT arrow button to temporarily disable the V-Chip Lock.

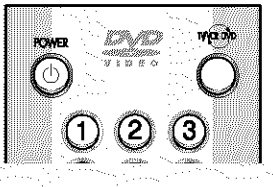
Chapter Three

DVD OPERATION

Playing a Disc

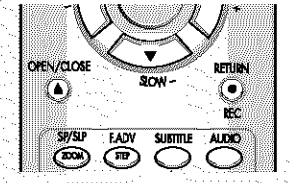
Playback

1
Press the TV/DVD VCR button to switch the DVD mode.

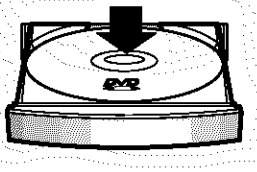


2
Press the **OPEN/CLOSE** button.

3
Place a disc gently into the tray with the disc's label facing up.

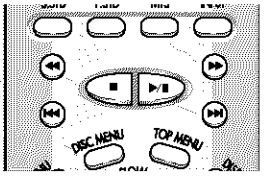


4
Press the **PLAY/PAUSE (▶/II)** or **OPEN/CLOSE** button to close the disc tray.



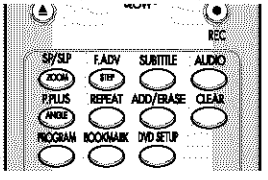
Pausing Playback

Press the **PLAY/PAUSE(▶/II)** or **STEP** button on the remote control during playback.
- Screen stops, no sound.
- To resume again, press the **PLAY/PAUSE(▶/II)** button once again.



Step Motion Playback (Excel CD)

Press the **STEP** button on the remote control during playback.



- Each time the button is pressed, a new frame will appear.
- No sound is heard during STEP mode.
- Press the PLAY/PAUSE(▶/II) button to resume normal playback (You can only perform step motion playback in the forward direction).

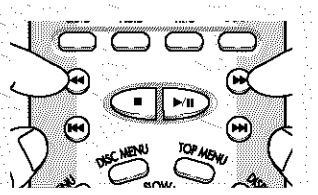
◄ RESUME function

When you stop disc play, the player remembers where you stopped, so when you press the PLAY again, it will pick up where you left off (unless the disc is removed, the STOP(■) button is pressed twice or the set is unplugged).

If the player is left for 5 minutes in pause mode, it will stop.
This ⊘ icon indicates an invalid button press.

Slow Motion Playback (Except CD)

Press the **FWD(▶▶)** SEARCH button on the remote control during PAUSE or STEP mode.

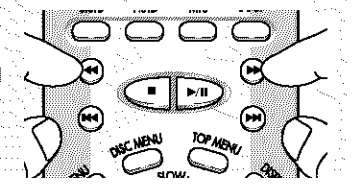


- By pressing the FWD SEARCH button, you can select slow motion playback for 1/8, 1/4 or 1/2 of normal speed.
- No sound is heard during slow mode.
- Press the PLAY/PAUSE(**▶/II**) button to resume normal playback.
- When playing a VCD, the reverse slow motion play will not work.

Using the Search and Skip Functions

Searching through a Chapter or Track

Press the **FWD(▶▶)** or **REW(◀◀)** SEARCH button on the remote control during playback.

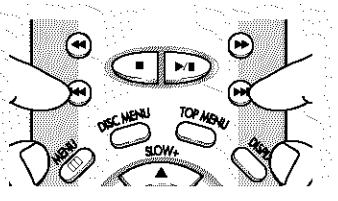


◄ When in search mode (2X/4X/8X/16X/32X/128X) on a DVD or high-speed playback on a VCD, no sound will be heard.

- Press the FWD(▶▶) or REW(◀◀) SEARCH button on the remote control and press again to search at a faster speed (2X/4X/8X/16X/32X/128X) on a DVD, (4X/8X) on a VCD and (2X/4X/8X) on a CD.
- To return to normal speed playback, press the PLAY/PAUSE(**▶/II**) button.

Skipping Tracks

During playback, press the **NEXT SKIP(▶▶I)** or **BACK SKIP(I◀◀)** button.



- Each Title on a DVD can be divided into chapters (similar to tracks on an audio CD).
- A DVD may contain several different titles. For example, if a disc contains four different movies, each might be considered a title.

- When playing a DVD, if you press the NEXT SKIP (▶▶I) button, it moves to next chapter. If you press the BACK SKIP (I◀◀) button, it moves to the beginning of the chapter. One more press makes it move to the beginning of the previous chapter.
- When playing a VCD 2.0 in MENU OFF mode, a VCD1.1 or a CD, if you press the NEXT SKIP(▶▶I) button, it moves to next track. If you press the BACK SKIP(I◀◀) button, it moves to the the beginning of the track. One more press makes it move to the beginning of the previous track.
- If a track exceeds 15 minutes when playing a VCD and you press the NEXT SKIP(▶▶I) button, it moves forward 5 minutes. If you press the BACK SKIP(I◀◀) button, it moves backward 5 minutes.
- When playing a VCD 2.0 in the MENU MODE or Track View function, if you press the NEXT SKIP(▶▶I) button, it moves to the next MENU or the next Track View display. If you press the BACK SKIP(I◀◀)button, it moves to the previous MENU or the previous Track View display.

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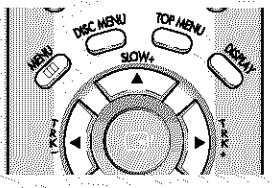
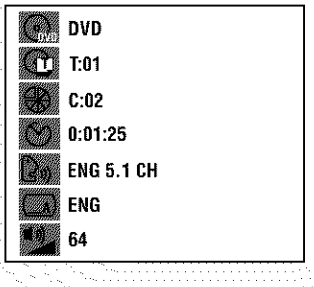
Using the Display Function

1
During playback, press the **DISPLAY** button.

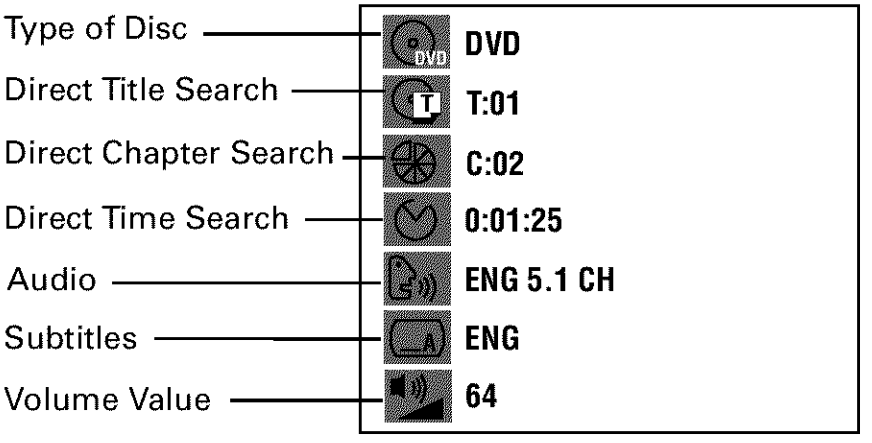
Each feature is illustrated with an icon. Use the up or down arrow button on the remote to highlight the icon.



2
When an icon is highlighted, use the LEFT or RIGHT arrow button to display other options if they are available. If necessary, press the ENTER button to select the highlighted option.



3
To make the screen disappear, press the **DISPLAY** button again.

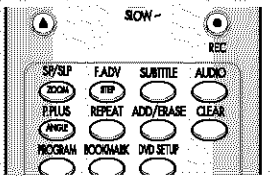


Repeat Play

Repeat the current track, chapter, title, a chosen section (A-B), or all of the disc.

1

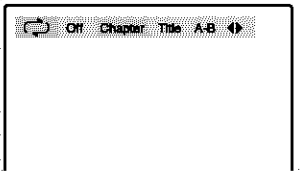
Press the **REPEAT** button.
Repeat screen appears.



2

Select Chapter, Title or A-B pressing the LEFT/RIGHT arrow buttons.

Press the **ENTER** button

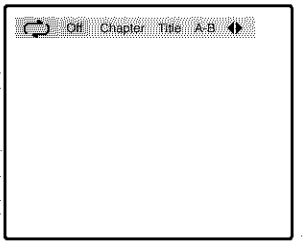


A-B Repeat

1. Press the **REPEAT** button. Select A-B on screen with the LEFT/RIGHT arrow buttons.
2. Press the **ENTER** button at the point where you want the repeat play to start (A).
   The B is automatically highlighted.
3. Press the **ENTER** button at the point where you want the repeat play to stop (B).
4. The A-B Repeat that you set plays until you turn Repeat off.

3

To return to normal playback, press the **REPEAT** button.
Press the LEFT/RIGHT arrow buttons to select "Off", then press the **ENTER** button.



Note

- DVD repeats playback by chapter or title, CD and VCD repeat playback by disc or track.
- Depending on the disc, the Repeat function may not work.
- If the title or track is completed before marking the end (B), the end of title or track becomes B automatically.
- When in VCD 2.0 mode (Menu On mode), this function does not work.

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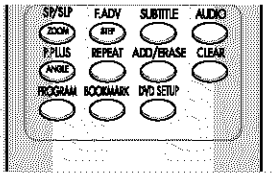
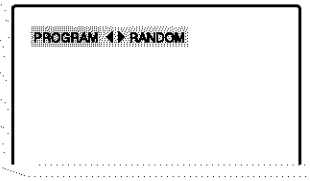
Program Play and Random Play

Program Playback

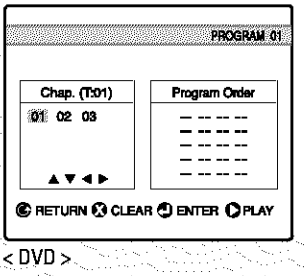
1
Press the **PROGRAM** button.



2
Press the LEFT/RIGHT arrow buttons to select "PROGRAM".
Press the **ENTER** button.

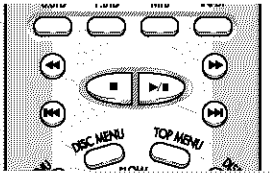


3
Press the LEFT/RIGHT arrow buttons to select the first chapter (or track) to add to the program.
Press the **ENTER** button.
The selection numbers appear in the Program Order box.



< DVD >

4
Press the **PLAY/PAUSE** (▶/❚❚) button.
The disc will be played back in programmed order.



◄ Depending on the disc, the Program and Random Playback function may not work.

When in VCD 2.0 mode (Menu On mode), these functions do not work.

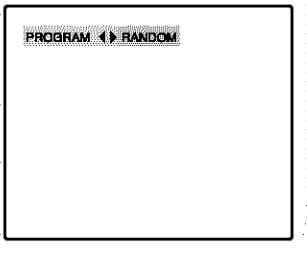
To resume normal playback, press the CLEAR button.

Random Playback

1
Press the **PROGRAM** button.

2
Press the LEFT/RIGHT arrow buttons to select "RANDOM".
Press the **ENTER** button.

The disc will be played back in random order.



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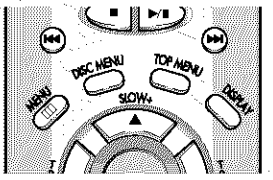
Using the Disc View Function (VCD)

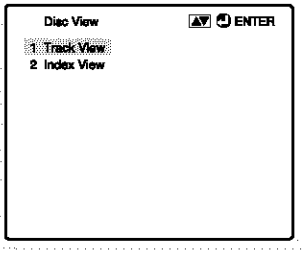
Track View/Index View

Displays the beginning view of each track and the track number (Track View).
Displays the equally divided 9 views of the current playing track (Index View).

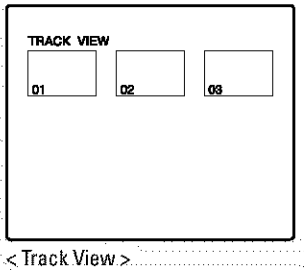
1
During playback, press the **TOP MENU** button.



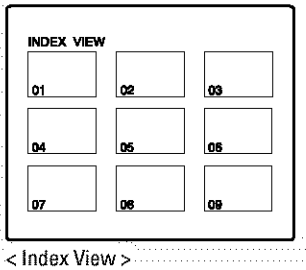
2
Press the UP/DOWN arrow buttons to select "Track View" or "Index View".
Press the **ENTER** button.



3
Select the desired view by pressing the UP/DOWN arrow or LEFT/RIGHT arrow buttons.
Press the **ENTER** button.



< Track View >



< Index View >

◄ When pressing the TOP MENU button with a DVD; the disc's TITLE MENU function comes up. A disc must have at least two titles for the TITLE MENU function to work.

When pressing the TOP MENU button with a CD; the unit enters the INTRO mode. INTRO lets you listen to the beginning of each track for about 10 seconds.

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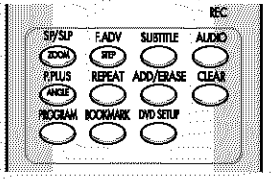
Selecting the Audio Language

Using the AUDIO Button

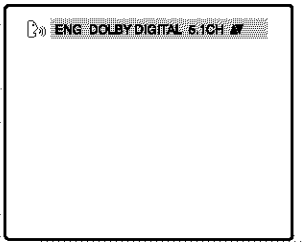
You can select a desired language quickly and easily with the AUDIO button.

1
Press the **AUDIO** button.

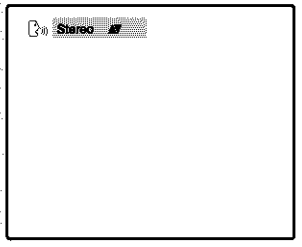


2
Press the UP/DOWN arrow buttons to select the desired language on a DVD.

The audio languages are represented by abbreviations.



3
Press the UP/DOWN arrow buttons to select Stereo, Right or Left (On VCD/CD).



◄ This function depends on what languages are encoded on the disc and may not work with all DVDs.

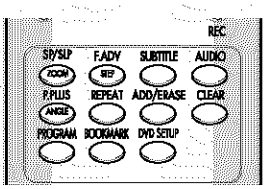
A DVD disc can contain up to 8 audio languages.

To have the same audio language come up whenever you play back a DVD, go to the next page.

Using the DVD SETUP Button (When in the DVD mode)

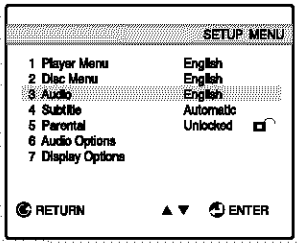
1

Press the **DVD SETUP** button.



2

The SETUP MENU is displayed.
Press the DOWN arrow button to select "Audio".
Press the **ENTER** button.

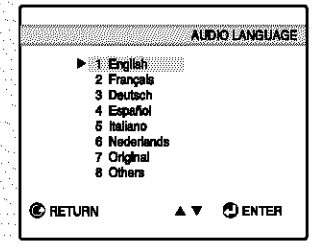


3

Press the DOWN arrow button to select the appropriate language, then press the **ENTER** button.

4

Press the **RETURN** button to exit.



◄ Select "Original" if you want the default soundtrack language to be the original language the disc is recorded in.

If the selected language is not recorded on the disc, the original pre-recorded language is selected.

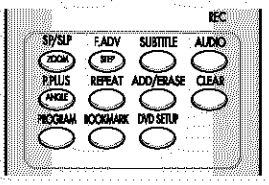
Selecting the Subtitle Language

Using the SUBTITLE button

You can select a desired subtitle quickly and easily with the SUBTITLE button.

1

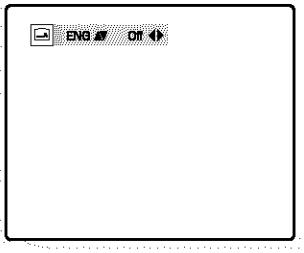
Press the **SUBTITLE** button.



2

Press the DOWN arrow button to select the desired subtitle language.

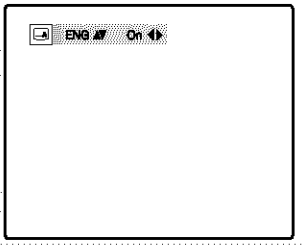
The subtitle languages are represented by abbreviations.



3

Press the LEFT/RIGHT arrow buttons to determine whether or not the subtitle will be displayed.

Initially, the subtitling will not appear on screen.



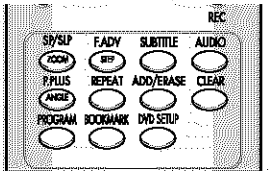
◄ This function depends on what languages are encoded on the disc and may not work with all DVDs.

A DVD disc can contain up to 32 subtitle languages.

To have the same subtitle language come up whenever you play back a DVD, go to the next page.

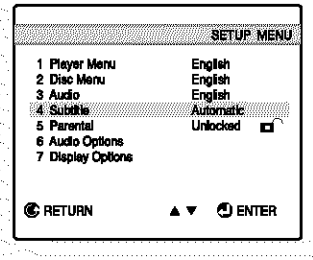
Using the DVD SETUP Button (When in the DVD mode)

1
Press the **DVD SETUP** button.

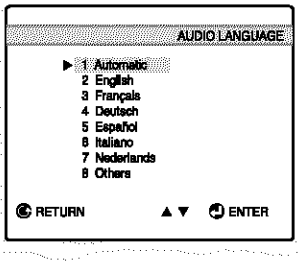


2
The SETUP MENU is displayed.

Press the DOWN arrow button to select "Subtitle". Press the **ENTER** button.



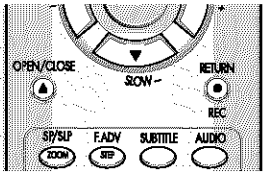
3
Press the DOWN arrow button to select the appropriate language, then press the **ENTER** button.



◄ Select "Automatic" if you want the subtitle language to be the same as the language selected as the audio preference.

If the selected language is not recorded on the disc, the original pre-recorded language is selected.

4
Press the **RETURN** button to exit.



Setting up the Language Features

If you set the player menu, disc menu, audio and subtitle language in advance, it will come up automatically every time you watch a movie.

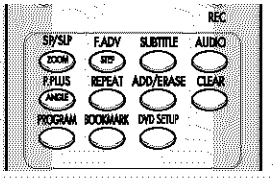
Using the Player and Disc Menu

Use the Player preference menu to select the language for the player's on-screen displays.

Use the Menu preference menu to select the language for a DVD's disc menu.

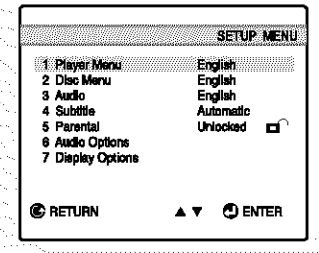
To change the Audio or Subtitles language through the menu, see the previous pages.

1
Press the **DVD SETUP** button.



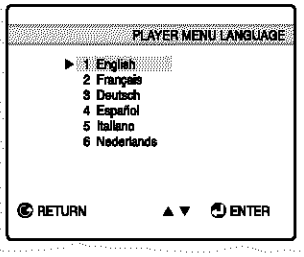
2

The SETUP MENU is displayed.
Press the DOWN arrow button to select "Player Menu" or "Disc Menu".
Press the **ENTER** button.



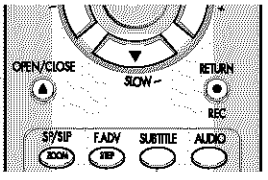
3

Press the DOWN arrow button to select the appropriate language, then press the **ENTER** button.



4

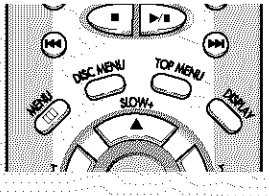
Press the **RETURN** button to exit.



Using the Master Volume Control Function

Press the **DISPLAY** button, then press the DOWN arrow buttons to select master volume control.

Press the LEFT/RIGHT arrow buttons to select a suitable volume.



- Master Volume Control function lets you adjust the volume of the player's output. This is useful for matching the player's output level to other equipment in your system.
- Volume control is only operative when using the Analog Audio outputs.
- There are up to 64 levels. Lowering each level reduces the audio level by 0.5dB.

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Changing the Camera Angle

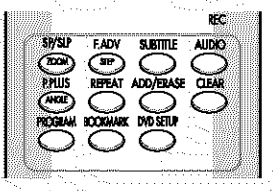
When a DVD contains multiple angles of a particular scene, you can select the Angle function.

Using the ANGLE button

Press the ANGLE button to see if an ANGLE ( ) mark is present at the upper right hand corner of the screen.

1

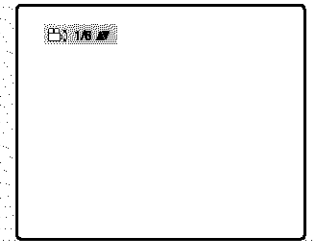
When an ANGLE mark is shown, press the **ANGLE** button, then an ANGLE select icon will appear at the upper left hand corner of the screen.



2

Press the UP/DOWN arrow buttons to select the desired screen angle,then press the **ENTER** button.

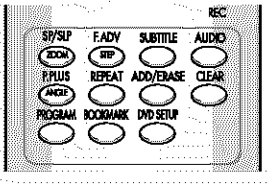
To turn off the display, press the **ANGLE** button again.



Using the Zoom Function (DVD/VCD)

1

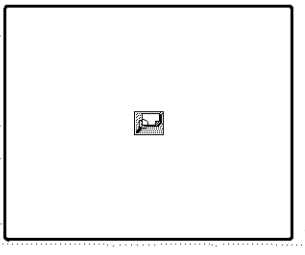
During playback or pause mode, press the **ZOOM** button on the remote. A square will be displayed on screen.



2

Press the UP/DOWN or LEFT/RIGHT arrow buttons to select the part of the screen you want to zoom.

Press the **ENTER** button.



- During DVD playback, press the ENTER button to zoom in 2X/4X/2X in order.
- During VCD playback, press the ENTER button to zoom in 2X.

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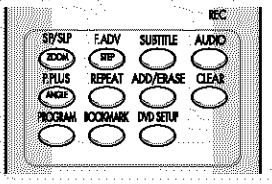
Using the Bookmark Function

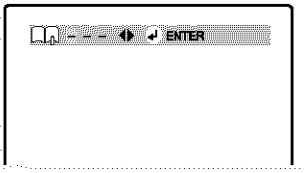
The Bookmark function lets you select parts of a DVD or VCD (MENU OFF mode) so that you can quickly find the section at a later time.

Using the Bookmark Function (DVD/VCD)

1
During playback, press the **BOOKMARK** button.
A marker will be displayed.

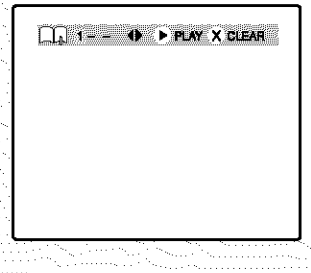


2
Press the LEFT/RIGHT arrow buttons to move to the desired bookmark icon.



3
When you reach the scene you want to mark, press the **ENTER** button.
The icon will change to a number (1, 2, or 3).

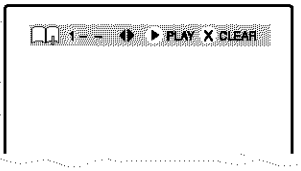
Press the **BOOKMARK** button to turn off the display.



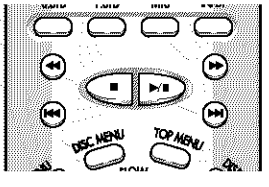
Recalling a Marked Scene

1
During playback, press the **BOOKMARK** button.
A marker will be displayed.

2
Press the LEFT/RIGHT arrow buttons to select a marked scene.

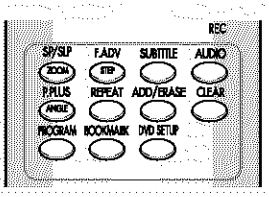


3
Press the **PLAY/PAUSE** (▶/II) button to skip to the marked scene.

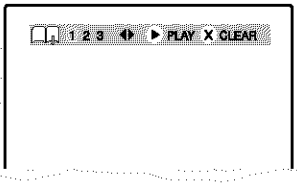


Clearing a Bookmark

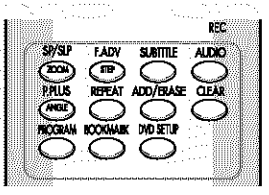
1
During playback, press the **BOOKMARK** button.
A marker will be displayed.



2
Press the LEFT/RIGHT arrow buttons to select the bookmark number you want to delete.



3
Press the **CLEAR** button to delete a bookmark number.
Press the **BOOKMARK** button to turn off display.



- Up to three scenes may be marked at the same time.
- When in VCD 2.0 mode (Menu On mode), this function does not work.
- Depending on the disc, the Bookmark function may not work.

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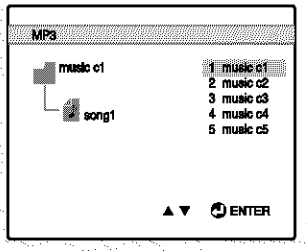
MP3 Play

When an MP3 Disc is inserted into the DVD player, the first song file of the first folder plays.

MP3 Play Function

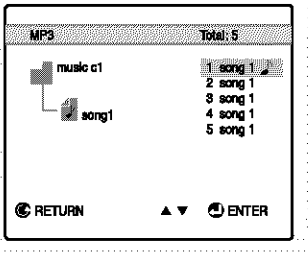
1

Press **STOP** to stop playback of the first song file, then press **RETURN** to display the music folder menu on the right side of the screen. Up to 8 music folders can be displayed at a time. If you have more than 8 folders on a disc, press the RIGHT arrow button to bring them up on the screen.



2

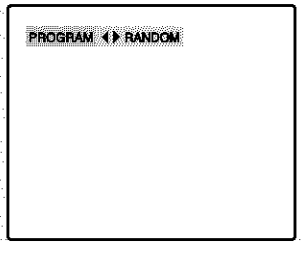
Press the UP/DOWN arrow buttons to select the desired music folder, then press ENTER. Press the UP/DOWN arrow buttons again to select a song file. Press ENTER to begin playback of the song file.



Program/Random playback

1

Press the **PROGRAM** button to switch between the RANDOM and PROGRAM modes. See page 38 for more information on these modes.



Notes:

- A musical note is displayed next to the file currently playing.
- Press the REPEAT button to hear only music continuously and press it once again to release.

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CD-R MP3 discs

In the case of CD-R MP3 discs, please follow all the recommendations for CD-R above, plus the comments below:

- **Your MP3 files should be ISO 9660 or JOLIET format**.

  ISO 9660 format and Joliet MP3 files are compatible with Microsoft's DOS and Windows, and with Apple's Mac. These two formats are the most widely used.

- **When naming your MP3 files do not exceed 8 characters, and place ".mp3" as the file extension.**

  General name format of: Title.mp3. When composing your title, make sure that you use 8 characters or less, have no spaces in the name, and avoid the use of special characters including: (.,/,\,=,+).

- **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 better sound quality. Conversely, files with sampling rates below 128 kb/sec will not be played properly.

- **Do not try recording copyright protected MP3 files.**

  Certain "secured" files are encrypted and code protected to prevent illegal copying. These files are of the following types: Windows Media™ (registered trade mark of Microsoft Inc) and SDMI™ (registered trade mark of The SDMI Foundation). You cannot copy such files.

- **Your DVD player only accepts one level of file directory.**

  Consequently you must choose:

  - either to save all your MP3 recording files at the root of the disc;

  - and/or create folders in the directory for each artist or music type (e.g.classical, rock, jazz, etc)

- **Important:**

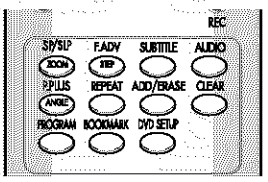
  The above recommendations cannot be taken as a guarantee that the DVD player will play MP3 recordings, or as an assurance of sound quality. You should note that certain technologies and methods for MP3 file recording on CD-Rs prevent optimal playback of these files on your DVD player (degraded sound quality and in some cases, inability of the player to read the files).

Setting up the Parental Control

The Parental Control function works in conjunction with DVDs that have been assigned a rating - which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

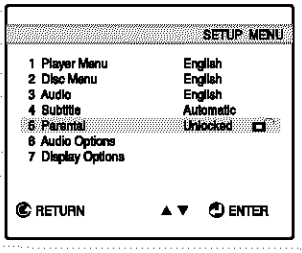
1

Press the **DVD SETUP** button (the SETUP MENU is displayed).



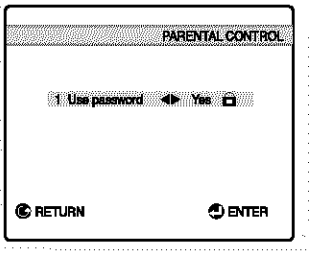
2

Press the DOWN arrow button to select "Parental". Press the **ENTER** button.



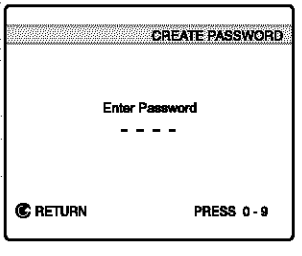
3

Press the RIGHT arrow button to select "Yes" if you want to use a password, then press the **ENTER** button (the Enter Password screen appears).



4

Enter your password. The Re-enter Password screen appears to confirm the password. Enter you password again. The Parental Control screen appears.



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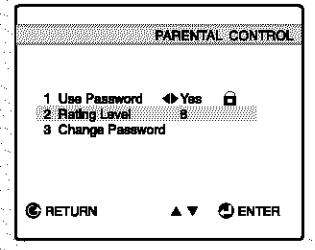
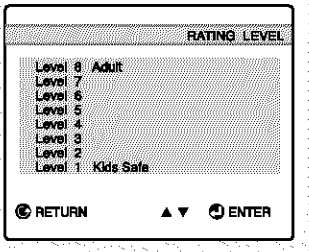
5

About the Rating Level:

The Rating Level will work only when use password is set to "Yes". To unlock the player, press RIGHT arrow button to select "No".



- Press the DOWN arrow button to select the "Rating Level", then press the **ENTER** button.
- Press the UP/DOWN arrow buttons to select the Level(e.g. Level 8), then press the **ENTER** button. Disc that contain Level 7 will now not play.

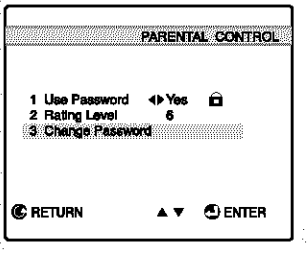


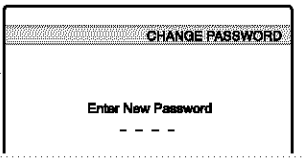
To cancel the rating level, press the LEFT/RIGHT arrow button to select No in Use Password.

6

About Change Password:

- Press the DOWN arrow button to select "Change Password" and press ENTER. The Change Password screen appears.
- Enter your new password. Re-enter the new password again.





7

Press the **RETURN** button to exit.

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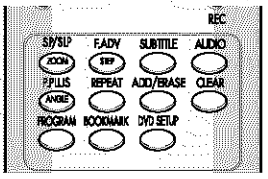
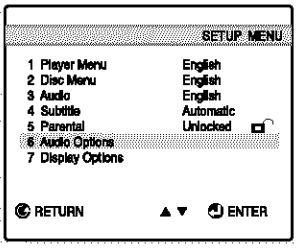
Setting up the Audio Options

1
Press the **DVD SETUP** button (The SETUP MENU is displayed).

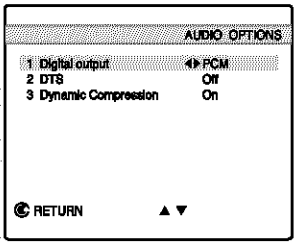


2
Press the DOWN arrow button to select "Audio Options". Press the **ENTER** button.



3
Press the DOWN arrow button to select the desired item, then press the RIGHT arrow button.

4
Press the **RETURN** button to exit.



• Digital output

PCM: Converts to PCM(2CH) 48kHz/16Bit audio. Select PCM when using the Analog Audio Outputs.

Bitstream: Converts to Dolby Digital BITSTREAM - 5.1CH (if MPEG-2, 7.1CH). Select BITSTREAM when using the Digital Audio Output.

• DTS

On: Outputs DTS BITSTREAM via digital output only. Select DTS when connecting to a DTS DECODER.

Off: Doesn't output digital signal.

• Dynamic Compression

On: To select dynamic compression.

Off: To select the standard range.

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"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

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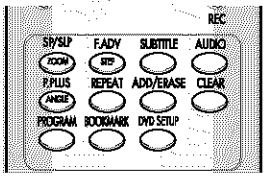
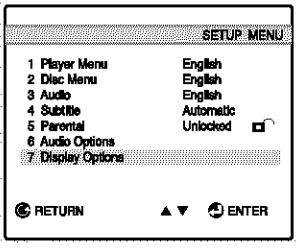
Setting up the Display Options

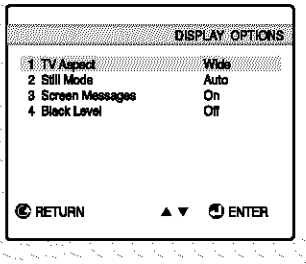
1
Press the **DVD SETUP** button (the SETUP MENU is displayed).



2
Press the DOWN arrow button to select "Display Options". Press the **ENTER** button.



3
Press the DOWN arrow button to select the desired item, then press the ENTER button to view TV Aspects or press the RIGHT arrow button to toggle between choices for other Display Options.



4
Press the **RETURN** button to exit.

• TV Aspect

4:3 Letter Box : Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.

4:3 Pan Scan : Select this for conventional size TVs when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)

16:9 Wide : You can view the full 16:9 picture on your widescreen TV.

• Still Mode

Field : Select this feature when the screen shakes in the Auto mode.

Frame : Select this feature when you want to see small letters more clearly in the Auto mode.

Auto : When selecting Auto, Field/Frame mode will be automatically converted.

• Screen Messages

Use to turn on-screen messages on or off.

• Black Level

Adjusts the brightness of the screen.(On/Off)

Chapter Four

VCR Operation

In this chapter, you will learn how to play a video cassette tape, how to use the time counter and memory stop features, and how to record a program as you are watching TV.

Using the Safety Tab

Most video cassette tapes have a safety tab that prevent accidental erasure. The safety tab is on the end opposite from where the arrow points.

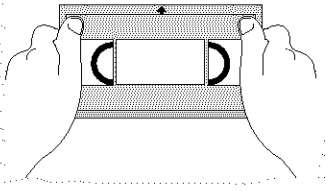
The tab must be intact to record. You can repeatedly record over on the same tape as long as the tab is intact. If you want to protect a tape from accidental erasure, break off the tab.

If you want to erase a recorded tape or record on a cassette with the tab removed, cover the hole with cellophane tape.

Inserting and Ejecting a Video Cassette Tape

To insert a video cassette tape:

1
Hold the video cassette tape window-side up with the arrow pointing away from you.

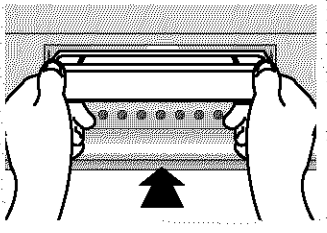


◄ Don't try to insert a tape upside down or backwards.

Use only video tapes labeled "VHS." European PAL VHS video tapes and S-VHS pre-recorded tapes aren't compatible with this unit. Choose brand name, high quality tapes for best results.

2
Gently push the tape through the compartment door until you feel the VCR pull it.

The VCR loads the tape automatically.

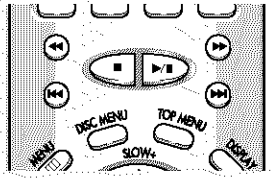


◄ If the power is off when you insert a tape, the TV turns on automatically.

If the safety tab of your video tape has been removed, the tape begins to play automatically. You don't have to press PLAY.

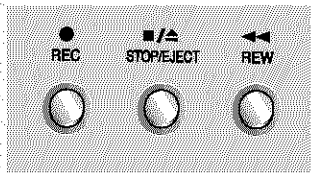
To eject a video cassette tape,

1
Press the **STOP(■)** button to stop playing the tape.



◄ When you're finished playing a pre-recorded video tape, it's best to rewind it to the beginning and remove it from the VCR to protect it from wear and tear.

2
Press the **STOP/EJECT** button on the front control to eject the tape.



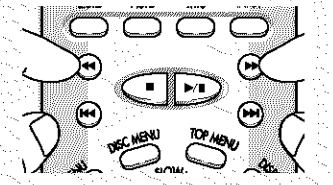
◄ After ejecting a tape, you should remove it completely from the compartment and turn off the VCR.

Using Picture Search

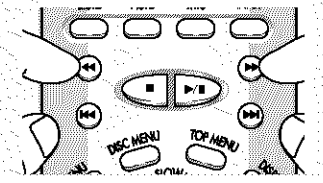
Picture search lets you quickly search a pre-recorded video tape for a particular scene.

1
While playing a tape, press and release the **FWD(▶▶)** or **REW(◀◀)** button.

The images from the tape are displayed on the screen at a high speed.



2
When you find the scene you want, press and release the **FWD(▶▶)** or **REW(◀◀)** button again to resume playing the tape at regular speed.



◄ There's no sound while you search for a picture at high speeds.

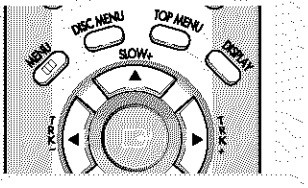
There may be some horizontal streaks on the screen while you search.

This technique is good if you're searching through only a small amount of tape. If you want to search through a large amount of tape, stop the tape before pressing FWD or REW.

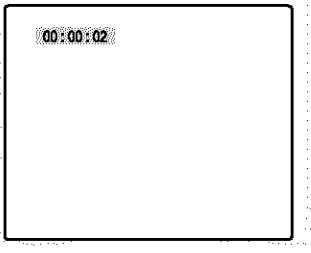
Using the Time Counter

The time counter allows you to keep track of how much time (in hours, minutes, and seconds) has elapsed on the video tape you're watching. The counter can also be useful if you want to find a specific point on a pre-recorded tape.

1
While a tape is playing, press the **DISPLAY** button twice.



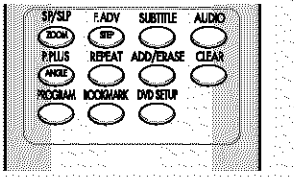
2
The time counter appears in the upper left corner of the screen.



◄ The counter displays time only for recorded sections of tape. Blank tapes or blank sections of tapes do not affect the counter display.

3
Press the **CLEAR** button to set the counter to "00:00:00."

4
Press the **DISPLAY** button twice again to remove the time counter from the screen.

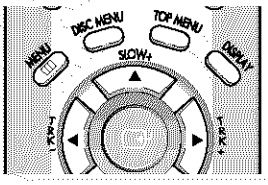


◄ The VCR automatically resets the counter to "00:00:00" when you eject a tape.

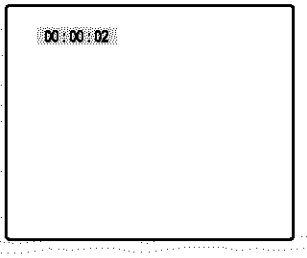
Using Memory Stop

Memory stop makes it easy for you to find a particular scene in a video tape. The VCR automatically stops rewinding or fast forwarding when the memory counter is at "00:00:00," so you simply need to mark the desired scene as "00:00:00." Then, you'll be able to search for that place the next time you watch the tape.

1
While playing a tape, when you reach the scene you want, press the **DISPLAY** button twice.

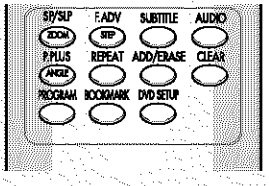


2
The time counter appears in the upper left corner of the screen.

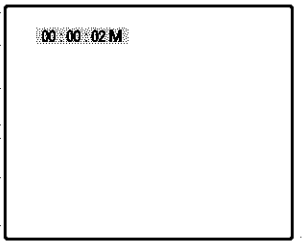


3
Press the **CLEAR** button to reset the timer to "00:00:00."

4
Press **DISPLAY** again to enter the scene into memory.



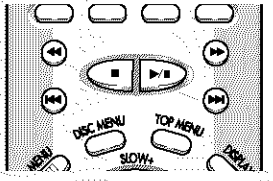
5
The letter "M" appears beside the time counter.



◄ If you want to remove the time counter memory from the screen and cancel the memory stop feature, just press the DISPLAY button again.

To return to the scene you marked,

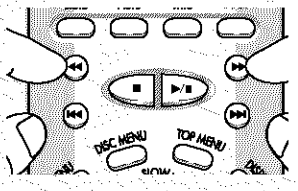
1
Press the **STOP(■)** button.



◄ For this feature to work, the time counter and the letter "M" must still be on the screen. If this isn't the case, press the DISPLAY button until the time counter and the letter "M" are both on the screen.

2
Press the **FWD(▶▶)** or **REW(◀◀)** button to return to the scene you marked.

The VCR stops the tape when the counter reaches "00:00:00M."



3
Press the **PLAY/PAUSE (▶/II)** button.
to view the scene again.

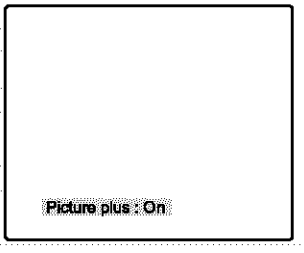
Using P.PLUS

Press P.PLUS to compensate for a poor rental tape.

1
Insert a tape and press the **PLAY/PAUSE (▶/II)** button.

2
Press the **P.PLUS** button ("Picture plus Off" appears on-screen.)

Press the **P.PLUS** button again to turn to "Picture plus On". Picture Plus functions only when a tape is being played.



◄ If the tape is ejected and reinserted, the Picture Plus feature will be Off.

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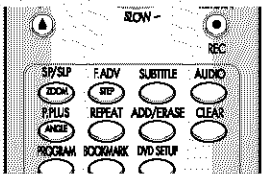
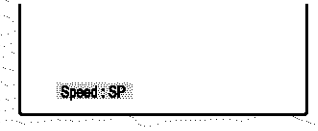
Recording TV Programs As You Watch

Recording

1 With your VCR turned on, and with a tape in the unit, press the **SP/SLP** button.

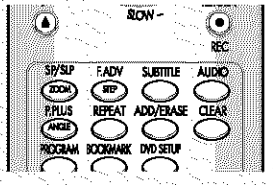


The tape speed appears in on-screen.



◄ Be sure the record safety tab is in place. For information on the record safety tab, see page 54.

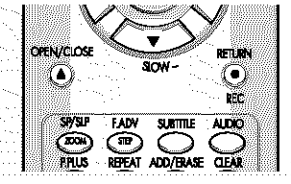
2 Press the **SP/SLP** button repeatedly until the speed you want (SLP or SP) appears.



3 Select the TV channel you want to record.

◄ SP (Standard Play) is the most common speed for recording. For more information on tape speeds, see page 68.

4 Press the **REC** button. The record indicator on the control panel illuminates and the VCR begins recording.



Notes:

- The VCR automatically stops recording and rewinds when it reaches the end of the tape.
- Press the STOP button at any time to stop recording.
- We don't recommend changing tape speeds while a recording is in progress. Doing so may cause distortion of the picture during playback.
- When you're finished recording, rewind the tape to the beginning and remove it from the VCR to protect the tape.
- When pressing the REC button on the front panel during DVD playback, the DVD will be recorded on the VCR tape. If your DVD title has been equipped with a Copy Protect technology, it can't be recorded on the VCR tape.
- You can play a DVD by switching into the DVD mode during channel recording.
- You can't play a DVD by switching into DVD mode during A/V recording.
- Mode Switching doesn't operate during recording in DVD mode.

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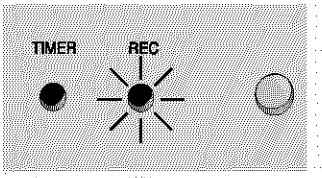
Editing While Recording

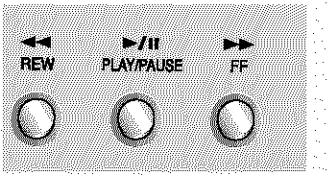
You can edit while recording, selecting only those scenes you want to record from the current television program. This is especially helpful if you want to record a program without the commercials.

1
Be sure you have begun recording and that the record indicator light on the front panel is illuminated.



◄ For information on recording, see page 58.

2
Press the **PLAY/PAUSE** (▶/II) button on the front panel to temporarily stop recording.



◄ After ten minutes in the pause mode, the VCR automatically stops the tape and switches to TV mode to protect the video heads from excessive wear. If this happens, press REC to resume recording.

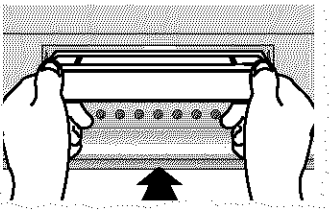
3
To resume recording, press the **REC** button on the front panel or remote control again.

Using Advanced Recording Features

Using One-Touch Recording

One-touch recording (OTR) lets you record television programs with the touch of a button. You can even program the length of time (up to four hours) that you want to record.

1
Insert a video cassette tape, set the tape speed, and select the channel you want to record.

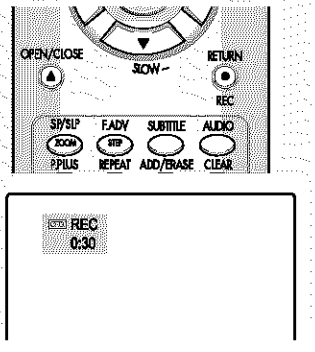


◄ For information, see "Recording Programs As You Watch" on page 58.

The VCR won't record on a video cassette tape if the record safety tab on the tape has been removed. For information on the record safety tab, see page 68.

2
Press the **REC** button repeatedly until the length of time you want to record appears.

The VCR begins recording.



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Your recording time options are: 30 minutes, 1 hour, 1 hour and 30 minutes, 2 hours, 3 hours, or 4 hours.

You can increase the length of time you want to record at any time during the recording process by pressing the REC button again and choosing additional time.

If you want to stop recording before the time is up, press the REC button until the OTR display shows "0:00." The recording stops after a few seconds. Or, press the POWER button on the front panel, then immediately press the STOP/EJECT button.

Note: In DVD mode, the OTR function doesn't operate with the REC button on the front panel. A normal recording only operates.

Recording at a Later Time

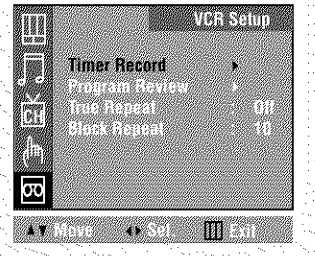
You can set the built-in timer for unattended recording of up to eight different TV programs. The timer can turn on the TV at the time you select, record for a selected length of time, and then turn off the TV – all without you being there.

You can also choose to record a program one time, daily (every day, Monday through Friday), or weekly (the same day every week.)

1

Press the **MENU** button.

Press the DOWN arrow button to select the VCR Setup icon, then press the RIGHT arrow button (Timer Record is highlighted).

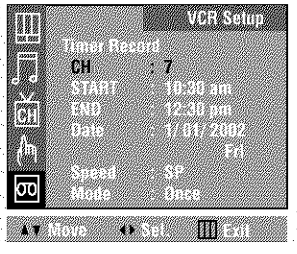


2

Press the RIGHT arrow button to display the Timer Record menu.

3

Press the LEFT/RIGHT arrow buttons to select the channel you want to record.



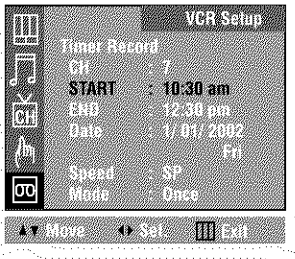
◄ The clock must be set to the correct time and date before you program the timer. For more information on setting the clock, see page 23.

VCR Operation

4

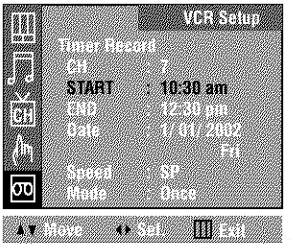
Press the DOWN arrow button to select "START".

Press the RIGHT arrow button. (The hour setting is highlighted).
Press the UP/DOWN arrow buttons to select the hour when you want to begin recording.



5

Press the RIGHT arrow button, then press the UP/DOWN arrow buttons to select the minute when you want to begin recording.

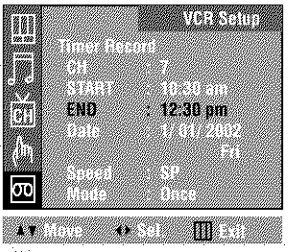


◄ The VCR automatically selects am or pm for the starting time.

6

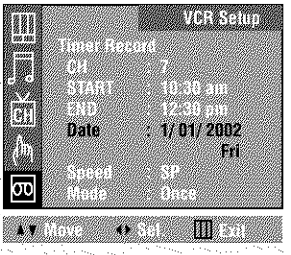
Press RIGHT arrow when you START time has been set, then press the DOWN arrow button to select "END".

Repeat the process used to set the Start time.



7

Press the RIGHT arrow button to highlight the month setting.
Press the DOWN arrow button to select the month when you want to begin recording.

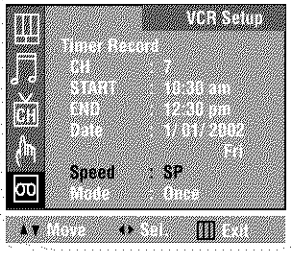


8

Press the RIGHT arrow button, then press the DOWN arrow button to select the day when you want to begin recording. Do the same to set the year.

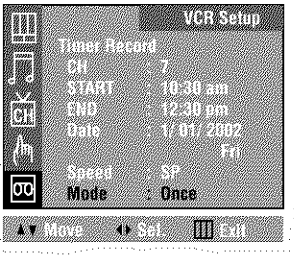
VCR Operation

9
Press the DOWN arrow button to select "SPEED", then press the RIGHT arrow button to select speed at which you want to record.



◄ For more information on selecting tape speeds, see page 68.

10
Press the DOWN arrow button to select "Mode", then press the UP/DOWN arrow buttons to select "Once", "Wkly", or "Dly".



11
Press the **MENU** button to exit the menu system and return to normal viewing.

12
Press the **POWER** button to turn off the VCR.

◄ To enter additional program recording times, repeat steps 1-10.

If you enter two program times that overlap, a program overlap warning appears on the TV screen, along with instructions for fixing the overlap.

The timer indicator on the front panel of the TV illuminates when program times have been stored.

The TV should be turned off to record the programs you've chosen.

IMPORTANT:

- The TV should be off to record the programs you've chosen. But, if you are recording a channel that comes through a cable box, be sure to leave the cable box turned on and tuned to the channel you want to record.
- When a timer recording is in progress, there is no picture on the monitor because the power is off. If you want to watch the channel while it's being recorded, press POWER **on the remote control only.**
- One-time timer programs clear from memory automatically when the recording is finished. Daily and weekly programs remain in the timer until you remove them. If power to the TV is interrupted,timer program will be removed from memory. The clock and calendar, however, must be reset.

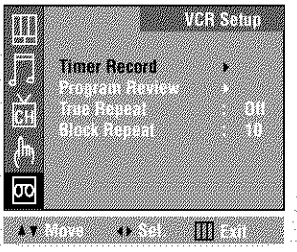
Using Program Review

Program Review allows you to review all of the programmed recordings currently stored in the VCR's memory and to remove a programmed recording quickly and easily.

1

Press the **MENU** button.

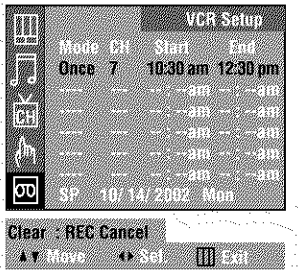
Press the DOWN arrow button to select the VCR Setup icon, then press the RIGHT arrow button.



2

Press the DOWN arrow button to select "Record View", then press the RIGHT arrow button.

The information for the first program appears on the screen.



◄ Program Review is only available if you have programmed your VCR to record at a later time.

3

To see the information for the program number, press the RIGHT arrow button.

◄ If you're recording through a cable box, the Program Review screen displays the output channel of the cable box as the channel number to be recorded.

4

If you want to remove a program from memory, press the **CLEAR** button when the program you want to erase is highlighted. That program is erased from memory.

Press the **MENU** button to exit.

◄ The VCR is equipped with a program memory backup that saves all the timer program information if the power to the VCR is interrupted. If the unit has been without power, all of the timer program information will be disabled, until you reset the clock. When the clock is reset, the programs will be restored.

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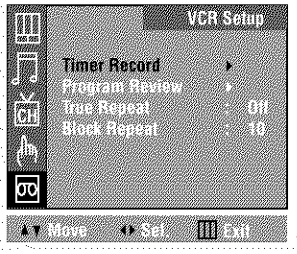
Using True Repeat

You can set your VCR to automatically repeat a tape or a section of tape. When you use True Repeat, your VCR will play until it reaches the end of a tape. Then, it will rewind to the beginning of the tape and begin playing again.

1

Press the **MENU** button.

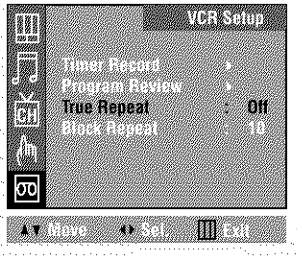
Press the DOWN arrow button to select the VCR Setup icon, then press the RIGHT arrow button.



2

Press the DOWN arrow button to select "True Repeat", then press the RIGHT arrow button to select "On".

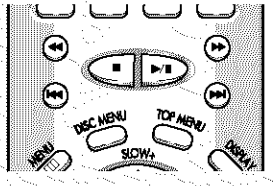
Press **MENU** to return to normal viewing.



3

Insert and play a pre-recorded video cassette tape.

The VCR will play the tape until it reaches a the end of the tape. Then, the VCR will stop the tape, rewind it to the beginning, and begin playing again.



4

Press the **STOP** button to end the repeat.

◄ If the VCR reaches an unrecorded section of tape before it reaches the end, it will search forward and check the tape again. If it finds a recorded section of tape, it will begin playing. If the tape is still blank, it will continue to search forward, until it reaches the end of the tape.

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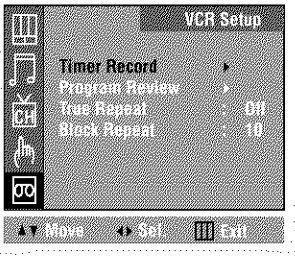
Using Block Repeat

Block repeat allows you to repeat a section of tape that you select. You can repeat this section of tape (the "block") from one to ten times, or endlessly.

1

Press the **MENU** button.

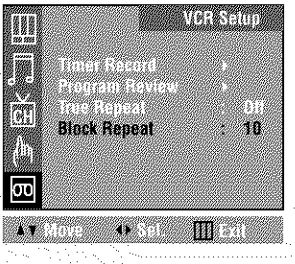
Press the DOWN arrow button to select the VCR Setup icon, then press the RIGHT arrow button.



2

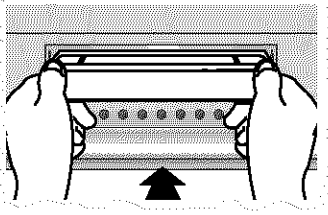
Press the DOWN arrow button to select "Block Repeat", then press the RIGHT arrow button to select the number of times you want your "block" to repeat.

Press the **MENU** button to return to normal viewing.



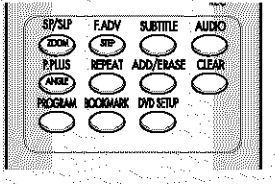
3

Insert and play a pre-recorded video cassette tape.



4

Press the **REPEAT** button at the beginning of the "block" you want to repeat.



5

When you reach the end of the "block," press the **REPEAT** button again.

The VCR will rewind the tape to beginning of the block and repeat it.
The VCR will repeat the block as many times as the number you set in step 2.

◄ You can choose to have your "block" repeat from one to ten times, or endlessly.

◄ "Repeat" section should be set up at a minimum five-second interval.

◄ The word "Repeat" will appear on the screen.

To stop block repeat, press the STOP, or POWER button. You can also cancel block repeat by fast forwarding or rewinding to a point outside the "block."

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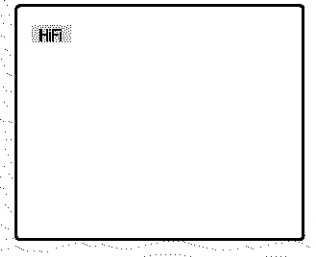
Using the HiFi Stereo

You can record or listen to a program in HiFi stereo.

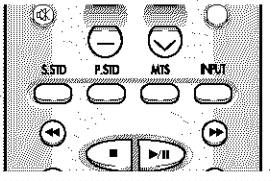
Selecting the HiFi Mode

1
Insert the video cassette tape.
If the tape doesn't begin to play automatically, press the **PLAY/PAUSE (▶/II)** button.



◄ HiFi: High Fidelity which produces better sound than standard stereo VCR.

2
Press the MTS button repeatedly to select "Mono," "Stereo", "Left" or "Right".



MTS Recording / Monitor Mode

Type of broad	Display on the TV screen	Stereo/SAP Selection	Hi-Fi audio track (2-channel)		Normal audio track
			L-channel	R-channel	
Regular (Normal audio)	None	Invalid	Mono	Mono	Mono
Stereo broadcast	Stereo	Invalid	Left	Right	Left + Right
Bilingual broadcast	SAP	Stereo	Main audio program	Main audio program	Main audio program
		SAP	Sub audio program	Sub audio program	Sub audio program
Stereo & Bilingual broadcast	Stereo SAP	Stereo	Left	Right	Left + Right
		SAP	Sub audio program	Sub audio program	Sub audio program

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Video Dubbing

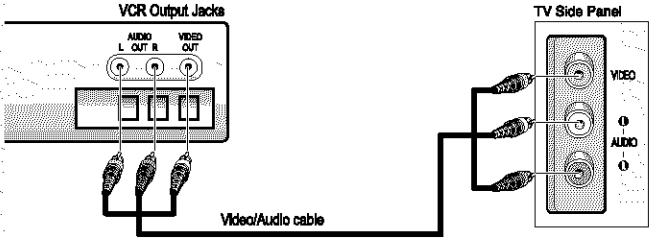
You can make a copy of another video cassette tape. This is called "dubbing." To dub, you need:

- your VCR
- a separate VCR (or camcorder), and
- two A/V cables with connectors. (You can find these at most electronics supply stores.)

We recommend that you play the pre-recorded tape in the separate VCR (or camcorder) and record on your TV.

Making the Connections

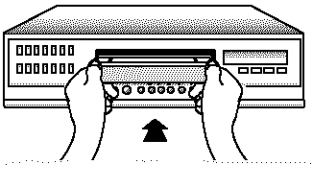
Attach one end of the first cable to the VIDEO/AUDIO OUT connector of the playback VCR (or camcorder) and the other end to the VIDEO/AUDIO IN connector of the TV.



Video Dubbing

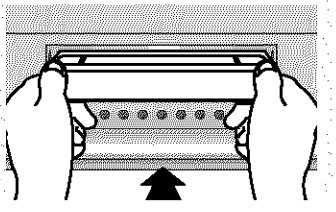
1

Insert the video cassette tape you want to copy into the playback VCR (or camcorder).



2

Insert a blank video tape (or any video tape with the record safety tab intact) into the recording VCR.



◄ Important Warning: One Federal Court has held that unauthorized recording of copyrighted TV programs may be an infringement of copyright laws.

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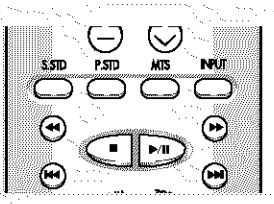
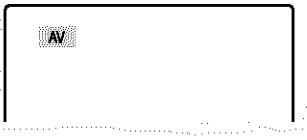
3
Press the **INPUT** button on the remote control of the recording VCR.



The words "AV" appear in the upper left corner of the TV screen.



4
To begin recording, simultaneously press the **REC** button on the recording TV's remote control and the **PLAY/PAUSE** (▶/II) button. on the playback VCR (or camcorder).

5
When you are finished, press the **STOP(■)** button on both the VCR (or camcorder) and the TV to stop recording.

6
Press the **INPUT** button to return to normal TV viewing.

◄ The VCR will be recording from the incoming line rather than from the normal broadcast signal.

"AV" will remain on-screen until the PLAY button is pressed on the playback VCR.

Tape Speeds

Your VCR is equipped with variable tape speed. You can play or record a tape at:

- SP (Standard Play)- gives the best quality recording; consequently, fewer programs can be recorded on the tape.
- SLP (Super Long Play)- gives three times the recording time of tapes recorded in SP.

Tape	SP	SLP
T-60	1 hr.	3 hrs.
T-120	2 hrs.	6 hrs.
T-160	2 hrs. 40 mins.	8 hrs.

Chapter Five

TROUBLESHOOTING

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, then call your nearest service center.

Identifying TV Problems

Problem	Possible Solution
Poor picture	Try another channel. Adjust the antenna. Check all wire connections.
Poor sound quality	Try another channel. Adjust the antenna.
No picture or sound	Try another channel. Press the TV/VIDEO button. Make sure the TV is plugged in. Check the antenna connections.
No color, wrong colors or tints.	Make sure the program is broadcast in color. Adjust the picture settings. If the set is moved or turned in a different direction, the power should be OFF for at least 30 minutes.
Picture rolls vertically.	Adjust the antenna. Check all wire connections.
The TV operates erratically	Unplug the TV for 30 seconds, then try operating it again.
The TV won't turn on.	Make sure the wall outlet is working.
Disc does not play.	Ensure that the disc is installed with the label side facing up. Check the region number of the DVD. This player cannot play CD-ROMs, DVD-ROMs, CD-R, etc. Insert a DVD, a VIDEO-CD or a CD.
5.1 channel sound is not being reproduced.	5.1 channel sound is reproduced only when the following conditions are met. : 1) The DVD player is connected with the proper amplifier. 2) The disc is recorded with 5.1 channel sound. • Check whether the disc being played has the "Dolby 5.1 ch" mark on the outside. • Check if your audio system is connected and working properly.

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Identifying DVD Problems

Problem	Possible Solution
Disc does not play.	Ensure that the disc is installed with the label side facing up. Check the region number of the DVD. This player cannot play CD-ROMs, DVD-ROMs, CD-R, etc. Insert a DVD, a VIDEO-CD or a CD.
5.1 channel sound is not being reproduced.	5.1 channel sound is reproduced only when the following conditions are met. : 1) The disc is recorded with 5.1 channel sound (check marking on the outside). • Check if your audio system is connected and working properly. 2) The DVD player is connected with the proper amplifier.
The ⊘ icon appears on screen.	The features or action cannot be completed at this time because : 1) The DVD's software restricts it. 2) The DVD's software doesn't support the feature (e.g., angles). 3) The feature is not available at the moment. 4) You've requested a title or chapter number or search time that is out of range.
Disc Menu doesn't appear.	Check if the disc has a Menu.
Playback mode differs from the Setup Menu selection.	Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.
The screen ratio can not be changed.	The Screen Ratio is fixed on your DVD discs.
No audio.	Make sure you have selected the correct audio in the Audio Options Menu.
If you experience other problems.	Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again. If the problem still cannot be solved, please contact your nearest authorized service center.

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Identifying VCR Problems

Problem	Possible Solution
Unit won't turn on.	Make sure the unit is plugged into a working wall outlet. Press the POWER button.
Unit won't take video tape	Make sure the tape is window-side up with the arrow pointing away from you. Make sure there is no other tape in the compartment.
Unit didn't record a program.	Make sure the antenna or cable is connected and that the TV/VCR is receiving the broadcast signal. Make sure the record safety tab is intact. Check the Timer Record VCR Setup option.
Unit didn't record a timer program.	Make sure the unit was turned off. Check the programmed start and stop times. Make sure the time is set correctly.
There is no picture, the picture is distorted during video tape playback, or there is noise or streaks in the picture.	Adjust the tracking. Clean the video heads. Make sure there has been a recording on the tape.
You can't receive regular broadcasts.	Check the antenna or cable connections.
Rewind command doesn't work.	Make sure the VCR is not in pause mode. Make sure the tape hasn't already been rewound. Make sure the VCR is not recording.
Fast forward command doesn't work.	Make sure the VCR is not in pause mode. Make sure the tape hasn't already been forwarded. Make sure the VCR is not recording.
Picture is streaked during pause mode.	This is normal for SP and LP recordings.

Limited Warranty

What your warranty covers:

- Defects in material or workmanship.

For how long after your purchase:

- One year from date of purchase for labor charges.
- One year from date of purchase for parts.
- Two years from date of purchase for picture tube.

The warranty period 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:

- Pay any Authorized RCA Television Service Center the labor charges to repair your TV/VCR/DVD.
- Pay any Authorized RCA Television Service Center for the new or, at our option, refurbished replacement parts and picture tubes required to repair your TV/VCR/DVD.

How you get service:

- For 20" screen size: Take your RCA TV/VCR/DVD to any Authorized RCA Television Service Center and pickup when repairs are complete.
- For screen sizes larger than 20": Request home or pick up, repair and return service from any Authorized RCA Television Service Center, provided that your TV/VCR/DVD is located within the geographic territory covered by an Authorized RCA Television Service Center. If not, you must take your TV/VCR/DVD to the Service Center location at your own expense, or pay for the cost the Service Center may charge to transport your unit to and from your home.
- To identify your nearest Authorized RCA Service Center, ask your dealer, visit RCA.com, look in the Yellow Pages, or call 1-800-336-1900.
- 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.

What your warranty does not cover:

- Customer instruction. (Your Owner's Manual clearly describes how to install, adjust, and operate your TV/VCR/DVD. Any additional information should be obtained from your dealer).
- Installation and related adjustments.
- Signal reception problems not caused by your TV/VCR/DVD.
- Damage from misuse or neglect.
- Cleaning of audio/video heads.
- Batteries.
- Customer replacement fuses.
- Damage from images burned onto the screen.
- A TV/VCR/DVD that has been modified or incorporated into other products or is used for institutional or other commercial purposes.
- Acts of nature, such as but not limited to lightning damage.
- A TV/VCR/DVD purchased or serviced outside the U.S.A.

Product registration:

- Please complete and mail the Product Registration Card packed with your TV/VCR/DVD. 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 this 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. Contact your dealer for warranty information.

Service calls which do not involve defective materials or workmanship are not covered by this warranty. Costs of such service calls are the sole responsibility of the purchaser.

Visit the RCA web site 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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