

TOSHIBA



DVD VIDEO PLAYER & VIDEO CASSETTE RECORDER

SD-V291

OWNER'S MANUAL

VHS Hi-Fi SQPB

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This device does not tape-record copy protected DVD Video Discs.

IMPORTANT SAFEGUARDS



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, do not expose this appliance to rain or moisture.

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

CAUTION: THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM.

TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS USER'S GUIDE CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION-SEE SERVICE PROCEDURE.

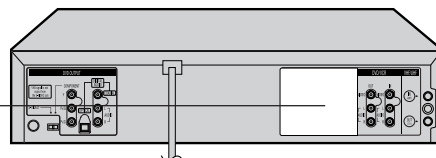
USE OF CONTROLS, ADJUSTMENTS OR THE PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

TO PREVENT DIRECT EXPOSURE TO LASER BEAM, DO NOT TRY TO OPEN THE ENCLOSURE. VISIBLE LASER RADIATION MAY BE PRESENT WHEN THE ENCLOSURE IS OPENED. DO NOT STARE INTO BEAM.

Location of the required Marking

The rating sheet and the safety caution are on the rear of the unit.

CERTIFICATION: COMPLIES WITH FDA RADIATION PERFORMANCE STANDARDS, 21 CFR SUBCHAPTER J.



IMPORTANT SAFEGUARDS

1. READ INSTRUCTIONS

All the safety and operating instructions should be read before the unit is operated.

2. RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

3. HEED WARNINGS

All warnings on the unit and in the operating instructions should be adhered to.

4. FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

5. CLEANING

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.

Use a damp cloth for cleaning the exterior cabinet only.

6. ATTACHMENTS

The manufacturer of this unit does not make any recommendations for attachments, as they may cause hazards.

7. WATER AND MOISTURE

Do not use this unit near water. For example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

8. ACCESSORIES

Do not place this unit on an unstable cart, stand, tripod, bracket, or table.

The unit may fall, causing serious injury, and serious damage to the unit.

- 8A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

9. VENTILATION

Slots and openings in the cabinet back or bottom are provided for ventilation, to ensure reliable operation of the unit, and to protect it from overheating.

These openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat source. This unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and/or the manufacturer's instructions have been adhered to.

10. POWER SOURCE

This unit should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.

11. GROUNDING OR POLARIZATION

This unit is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Instead of the polarized alternating-current line plug, your unit may be equipped with a 3-wire grounding-type plug (a plug having a third (grounding) pin). This plug will only fit into a grounding-type power outlet. This too, is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

12. POWER-CORD PROTECTION

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

PORTABLE CART WARNING
(symbol provided by RETAC)



S3125A

IMPORTANT SAFEGUARDS

13. LIGHTNING

To protect your unit from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.

14. POWER LINES

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall onto or against such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.

15. OVERLOADING

Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock.

16. OBJECT AND LIQUID ENTRY

Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

17. OUTDOOR ANTENNA GROUNDING

If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

18. SERVICING

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

For example:

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the unit.
- c. If the unit has been exposed to rain or water.
- d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
- e. If the unit has been dropped or the cabinet has been damaged.
- f. When the unit exhibits a distinct change in performance, this indicates a need for service.

19. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part.

Unauthorized substitutions may result in fire, electric shock or other hazards.

20. SAFETY CHECK

Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

21. HEAT

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

22. DISC TRAY

Keep your fingers well clear of the disc tray as it is closing. It may cause serious personal injury.

23. CONNECTING

When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.

IMPORTANT SAFEGUARDS / Power source

24. LASER BEAM

Do not look into the opening of the disc tray or ventilation opening of the product to see the source of the laser beam. It may cause sight damage.

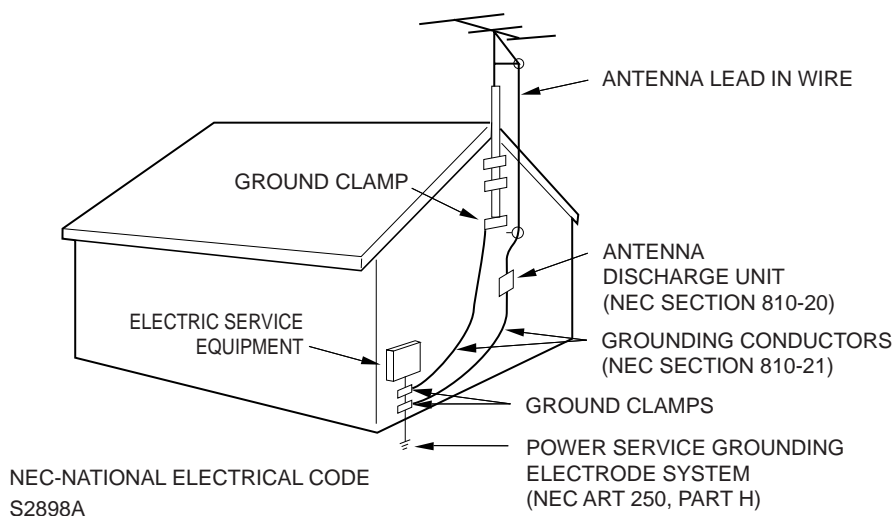
25. DISC

Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

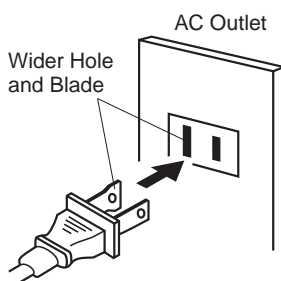
26. NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that 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.

EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE



Power source



Polarized AC Cord Plug
(One blade is wider than the other.)

TO USE AC POWER SOURCE

Use the AC polarized line cord provided for operation on AC. Insert the AC cord plug into a standard 120V 60Hz polarized AC outlet.

Notes:

- Never connect the AC line cord plug to other than the specified voltage (120V 60Hz). Use the attached power cord only.
- If the polarized AC cord does not fit into a non-polarized AC outlet, do not attempt to file or cut the blade. It is the user's responsibility to have an electrician replace the obsolete outlet.
- If you cause a static discharge when touching the unit and the unit fails to function, simply unplug the unit from the AC outlet and plug it back in. The unit should return to normal operation.

Precautions

Notes on handling

- When shipping the DVD/VCR, the original shipping carton and packing materials come in handy. For maximum protection, repack the unit as it was originally packed at the factory.
- Do not use volatile liquids, such as insect spray, near the DVD/VCR. Do not leave rubber or plastic products to contact the DVD/VCR for a prolonged period. They will leave marks on the finish.
- The top and rear panels of the DVD/VCR may become warm after a long period of use. This is not a malfunction.
- When the DVD/VCR is not in use, be sure to remove the disc and the video cassette turn off the power.
- If you do not use the DVD/VCR for a long period, the unit may not function properly in the future. Turn on and use the DVD/VCR occasionally.

Notes on locating

- Place the DVD/VCR on a level surface. Do not use it on a shaky or unstable surface such as a wobbling table or inclined stand. The loaded disc or the video tape may become dis-aligned and damage the DVD/VCR.
- When you place this DVD/VCR near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the DVD/VCR away from the TV, radio, or VCR.

Notes on cleaning

Use a soft, dry cloth for cleaning.

- For stubborn dirt, soak the cloth in a weak detergent solution, wring well and wipe. Use a dry cloth to wipe it dry.
Do not use any type of solvent, such as thinner and benzene, as they may damage the surface of the DVD/VCR.
- If you use a chemical saturated cloth to clean the unit, follow that product's instructions.

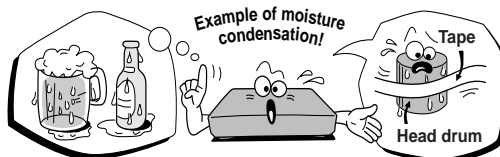
To obtain a clear picture

The DVD/VCR is a high technology, precision device. If the video head, the head drum, the optical pick-up lens or disc drive parts are dirty or worn down, the picture quality will deteriorate. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

Notes on moisture condensation

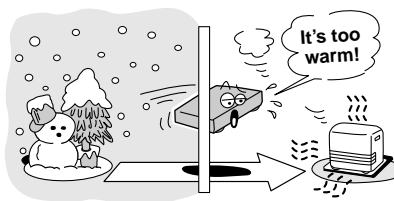
Moisture condensation damages the DVD/VCR. Please read the following carefully.

Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the head drum or the optical pick-up lens inside this unit, one of the most crucial internal parts of the DVD/VCR.



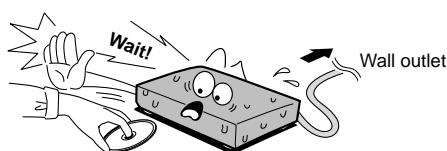
Moisture condensation occurs during the following cases.

- When you bring the DVD/VCR directly from a cold place to a warm place.
- When you use the DVD/VCR in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
- In summer, when you use the DVD/VCR in a hot and humid place just after you move the unit from an air conditioned room.
- When you use the DVD/VCR in a humid place.



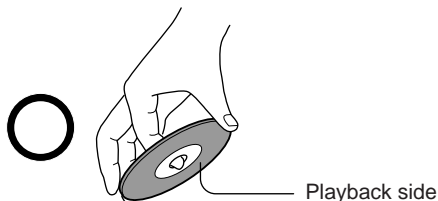
Do not use the DVD/VCR when moisture condensation may occur.

If you use the DVD/VCR in such a situation, it may damage discs and internal parts. Remove the disc or the video tape, connect the power cord of the DVD/VCR to the wall outlet, turn on the DVD/VCR, and leave it for two or three hours. After two or three hours, the DVD/VCR will have warmed up and evaporated any moisture. Keep the DVD/VCR connected to the wall outlet and moisture condensation will seldom occur.



On handling discs

- Do not touch the playback side of the disc.

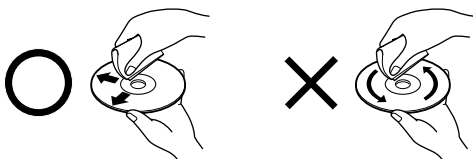


- Do not attach paper or tape to discs.



On cleaning discs

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.



- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzene, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.

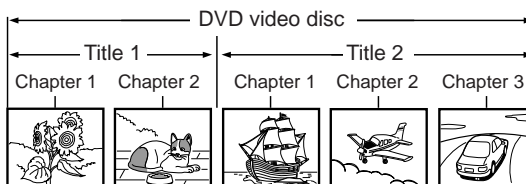
On storing discs

- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

Structure of disc contents

Normally, DVD video discs are divided into titles, and the titles are sub-divided into chapters. VIDEO CDs and audio CDs are divided into tracks.

DVD video disc



Video CD/Audio CD



Each title, chapter or track is assigned a number, which is called "title number", "chapter number" or "track number" respectively.

There may be discs that do not have these numbers.

Notes on copyright

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission.

This device does not tape-record copy protected DVD Video Discs.

The device is not to be used for copying copyrighted content without the express written permission of the copyright owner.

Obtaining such permission is the sole responsibility of the user.


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


Notes on discs (continued)

About this owner's manual



This owner's manual explains the basic instructions of this DVD/VCR. Some DVD video discs are produced in a manner that allows specific or limited operation during playback. As such, the DVD/VCR may not respond to all operating commands. This is not a defect in the DVD/VCR. Refer to instruction notes of discs.

“” may appear on the TV screen during operation.

A “” means that the operation is not permitted by the DVD/VCR or the disc.

For example, sometimes it is unable to stop the playback of copyright message of the disc when the STOP (■) button is pressed. Alternatively, the “” may also indicate that the feature is not available for the disc.

Notes on region numbers

The region number of this DVD/VCR is 1. If region numbers, which stand for their playable area, are printed on your DVD video disc and you do not find  or , disc playback will not be allowed by the player. (In this case, the DVD/VCR will display a message on-screen.)

On Video CDs

This DVD/VCR supports Video CDs equipped with the PBC (Version 2.0) function. (PBC is the abbreviation of Playback Control.) You can enjoy two playback variations depending on types of discs.

- **Video CD not equipped with PBC function (Version 1.1)**
Sound and movie can be played on this DVD/VCR in the same way as an audio CD.
- **Video CD equipped with PBC function (Version 2.0)**
In addition to operation of a Video CD not equipped with the PBC function, you can enjoy playback of interactive software with search function by using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this owner's manual may not work with some discs.

Playable discs

This DVD/VCR can play the following discs.

	Disc Mark	Contents	Disc Size	Maximum playback time
DVD video discs		Audio + Video (moving pictures)	12 cm	Approx. 4 hours (single sided disc)
				Approx. 8 hours (double sided disc)
			8 cm	Approx. 80 minutes (single sided disc)
				Approx. 160 minutes (double sided disc)
Video CDs		Audio + Video (moving pictures)	12 cm	Approx. 74 minutes
			8 cm	Approx. 20 minutes
Audio CDs		Audio	12 cm	Approx. 74 minutes
			8 cm (CD single)	Approx. 20 minutes
CD-R/ CD-RW	 	CD-DA/ JPEG/ MP3/WMA file	12 cm	Depending on the recording conditions
			8 cm	

- This unit can play back FUJICOLOR CD and Kodak Picture CD formats.
- You cannot play discs other than those listed above.
- You cannot play discs of DVD-RAM, DVD-RW, Photo CD, etc., or non standardized discs even if they may be labeled as above.
- Some CD-R/RWs can not be played back depending on the recording conditions.
- This DVD/VCR uses the NTSC color system, and cannot play DVD video discs recorded in any other color system (PAL, SECAM, etc.).

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Function setup (DVD)

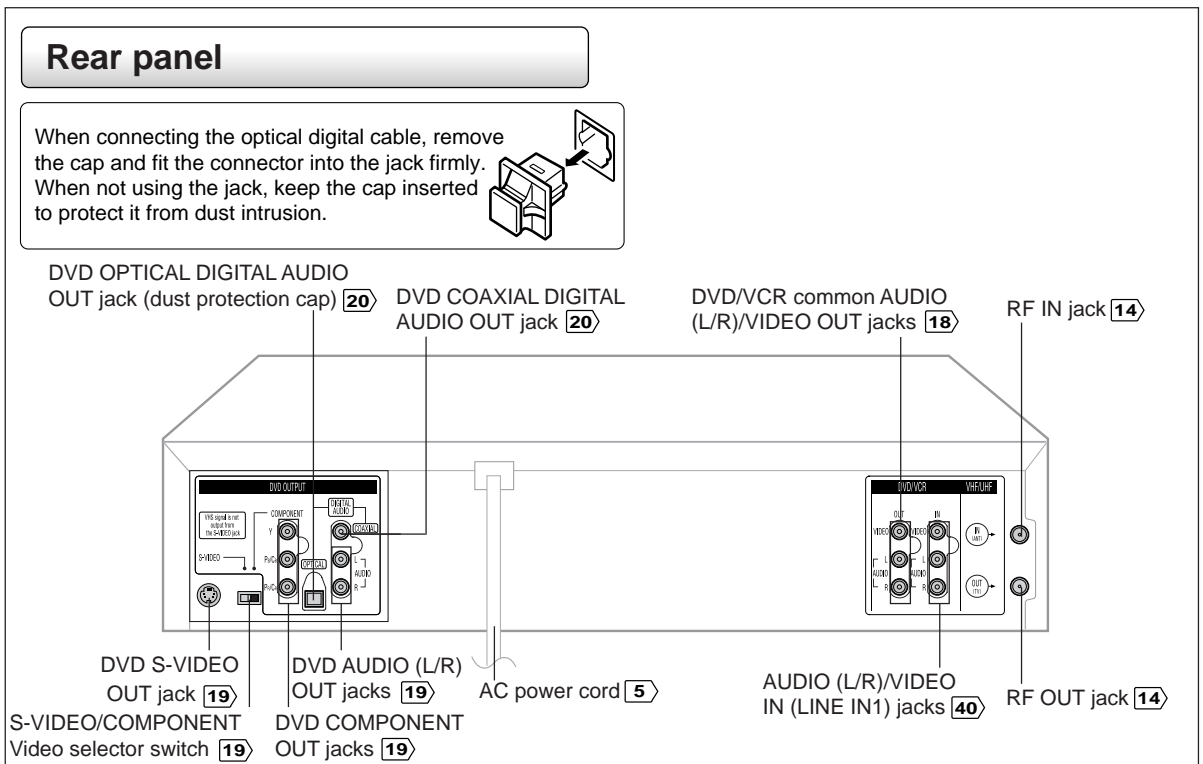
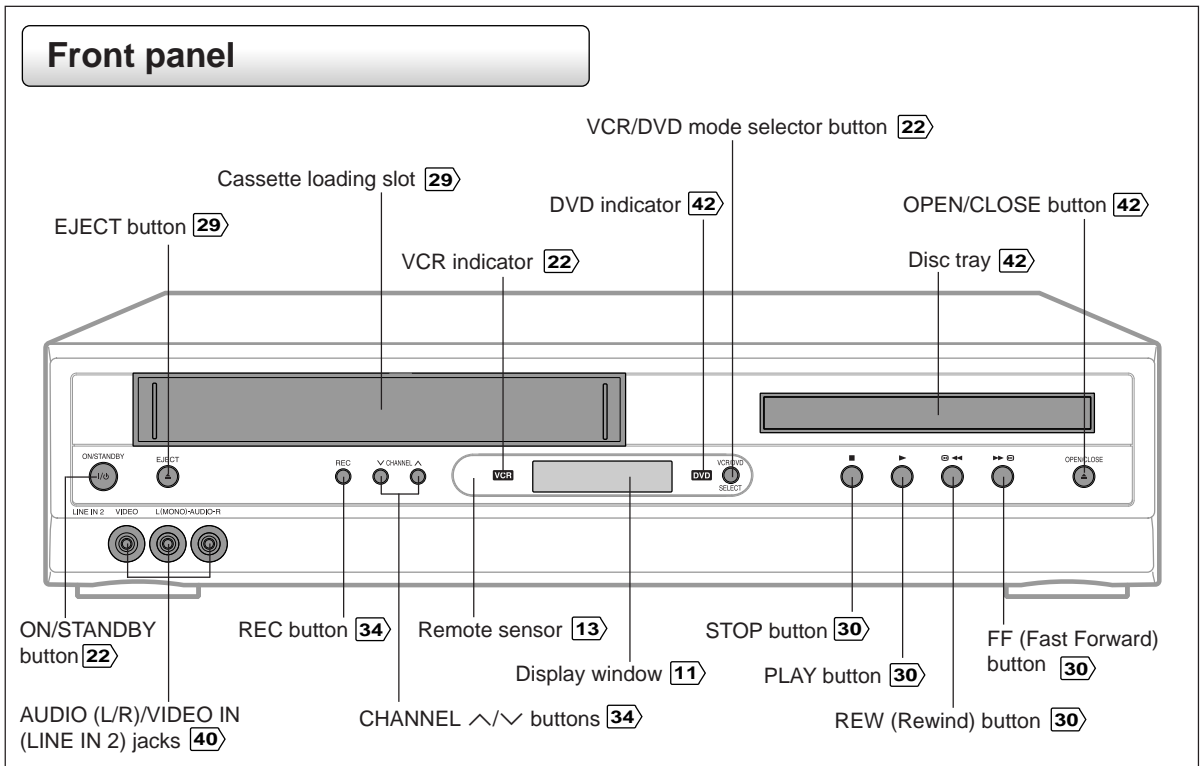
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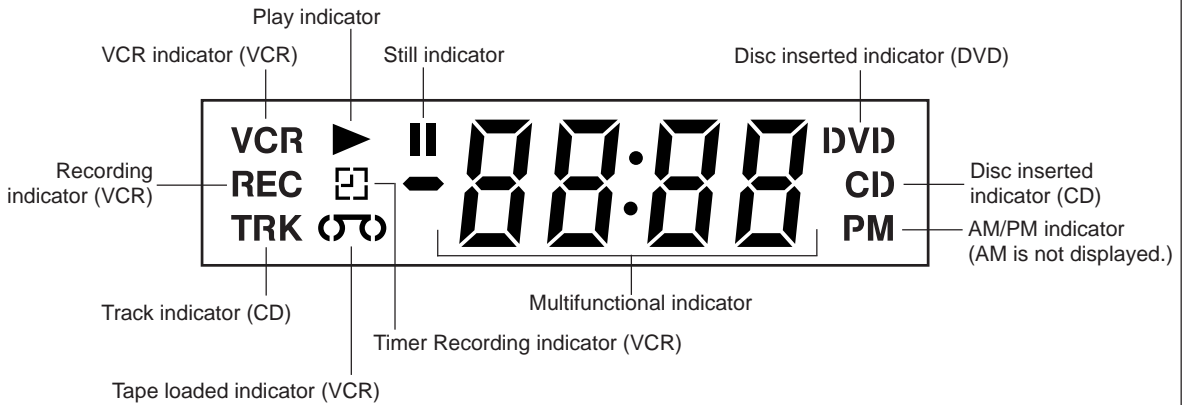
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Identification of controls

See the page in for details.



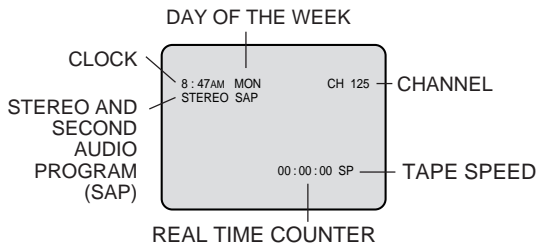
Display window



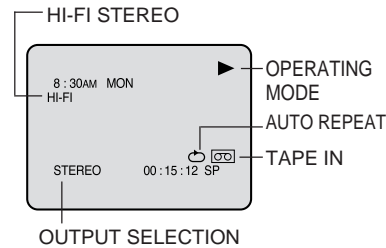
VCR operation status

Press **CALL** to display information on screen.
To cancel the display, press **CALL** again.

While watching TV



While operating a tape

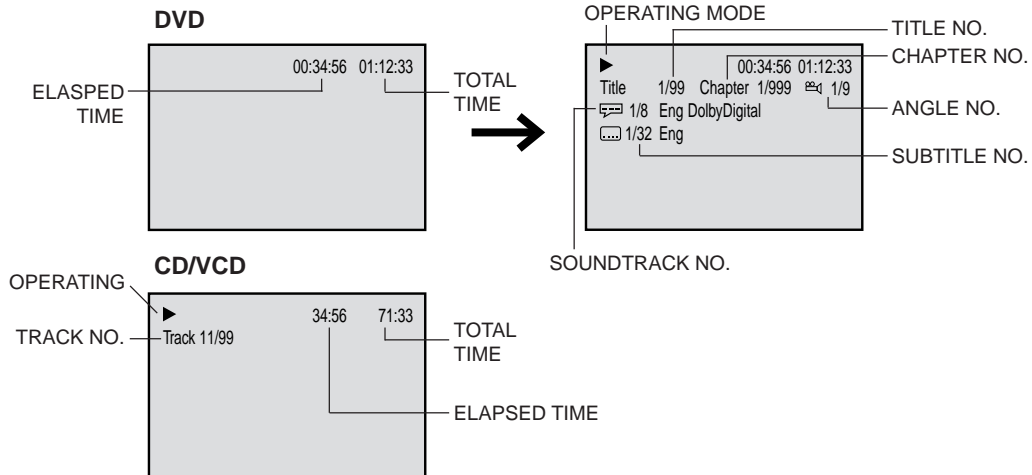


VCR Icons

- Recording : ●
- Rec/Pause : ●||
- Play : ▶
- Stop : ■
- Eject : ▲

DVD/CD/VCD operation status

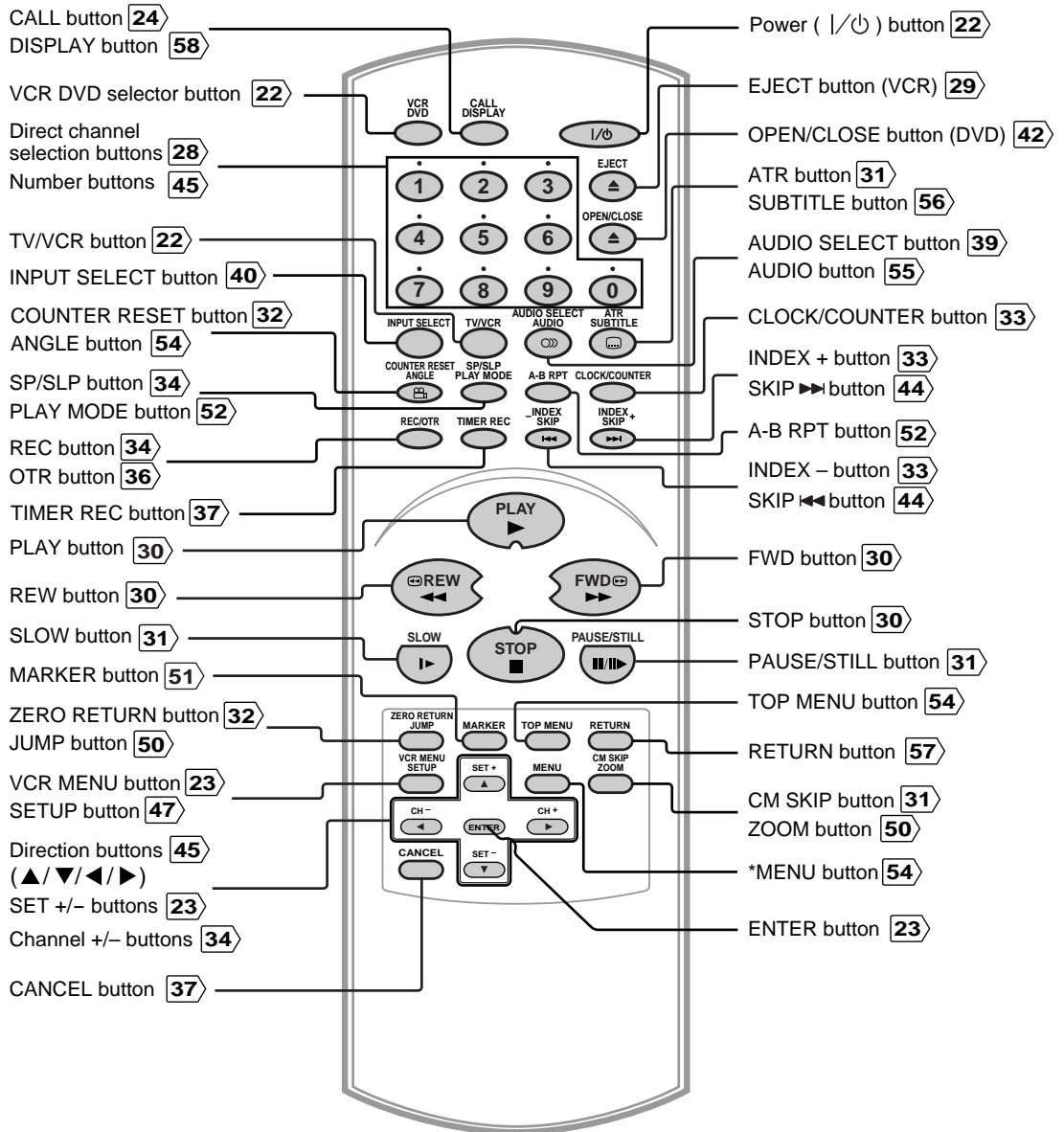
Each press of **DISPLAY**, the status display of the disc will appear on the screen and change as follows.



Identification of Controls (continued)

The instructions in this manual describe the functions on the remote control. See the page in for details.

Remote control

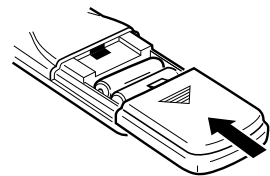
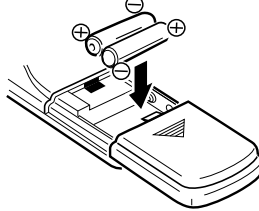
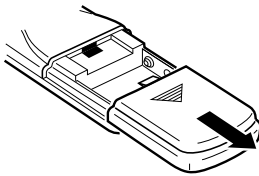


* MENU button

Use the MENU button to display the menu included on many DVD video discs. To operate a menu, follow the instructions in "DVD Menu." **54**

Inserting Batteries

- 1 Slide the battery compartment cover in the direction of the arrow.
- 2 Install two "AAA" batteries (supplied), paying attention to the polarity diagram in the battery compartment.
- 3 Replace the compartment cover.



Battery precautions

The precautions below should be followed when using batteries in this device:

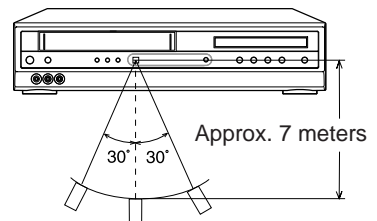
1. Use only the size and type of batteries specified.
2. Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device. To avoid a potential short circuit, insert the "-" end first.
3. Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
4. If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
5. Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions.)

Remote control basics

- Press **POWER** (I/⏻) to turn the DVD VCR on or off.
- Select your desired operating mode (DVD or VCR) using **VCR DVD**. (DVD or VCR indicator on the front panel will show you which mode is selected.)
- Press **CH +** or **CH -** to move through the channels one channel at a time.
- The **CH +/-** (◀/▶) and **SET +/-** (▲/▼) are also used to navigate on-screen menu system.
- You can directly access specific channels using **Number buttons**.
- Each press of **VCR DVD** on the remote control, switches the screen between the VCR screen (VCR mode) and the DVD screen (DVD mode).

Operation

- Aim the remote control at the remote sensor and press control buttons to operate.
- Operate the remote control within 30° angle on either side of the remote sensor, up to a distance of Approx. 7 meters.



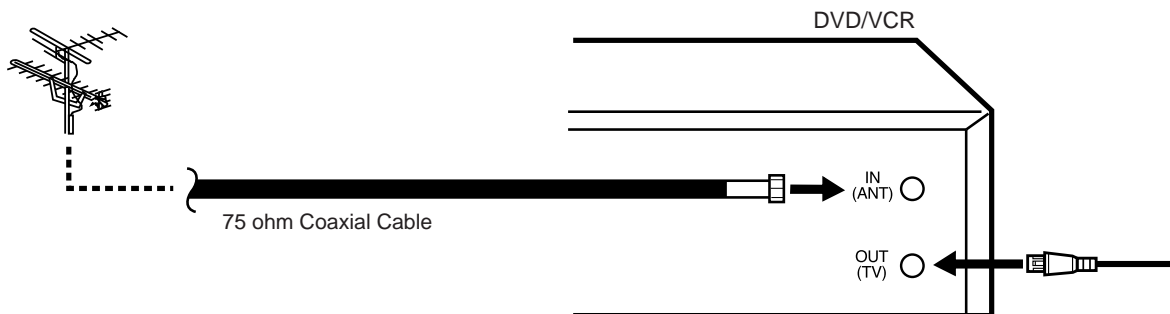
Antenna connections

If you are using an antenna system, follow these instructions. If you are a cable (CATV) subscriber, skip ahead to page 16 for the proper connections.

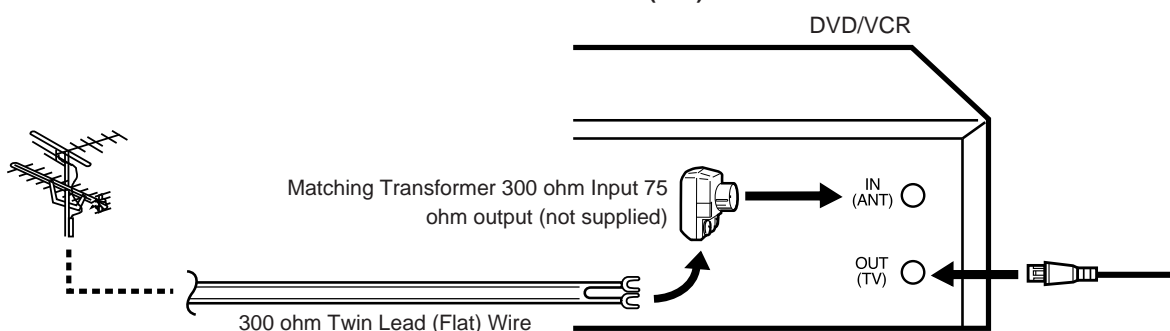
Antenna to DVD/VCR connection

The DVD/VCR must be connected "between" the antenna and the TV. First, disconnect the antenna from the TV and connect it to the DVD/VCR. Then connect the DVD/VCR to the TV. Below are 3 common methods of connecting an antenna system to a DVD/VCR. Find the type of antenna system you are using and follow the connection diagram.

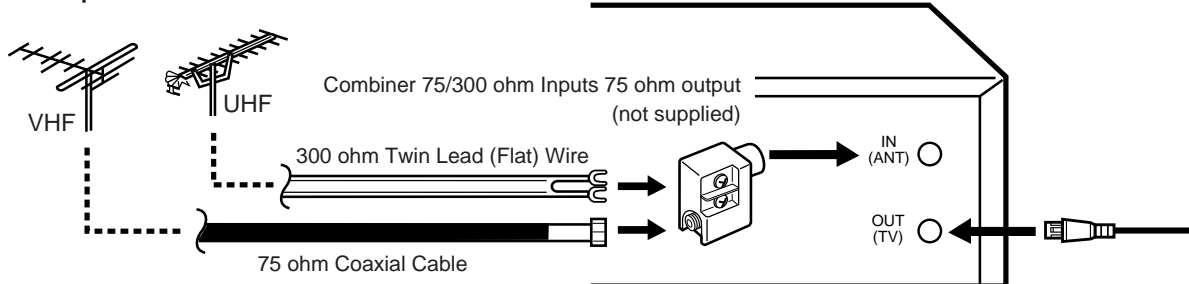
1 Combination VHF/UHF Antenna with 75 ohm Coaxial Cable



2 Combination VHF/UHF Antenna with 300 ohm Twin Lead (Flat) Wire



3 Separate VHF and UHF Antennas



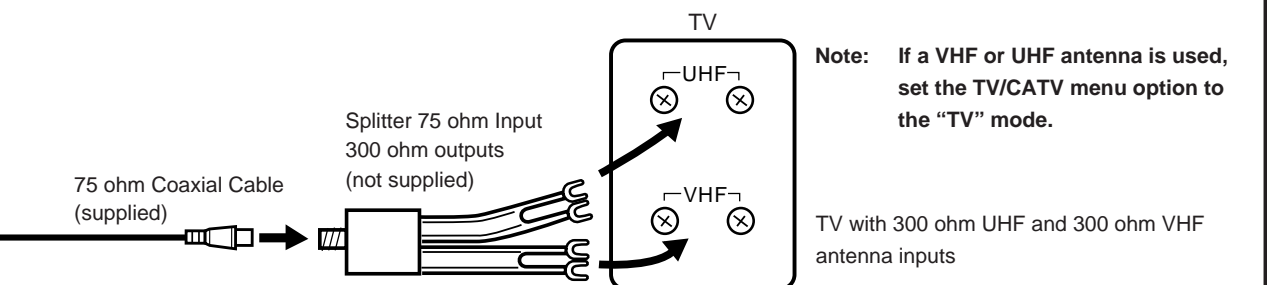
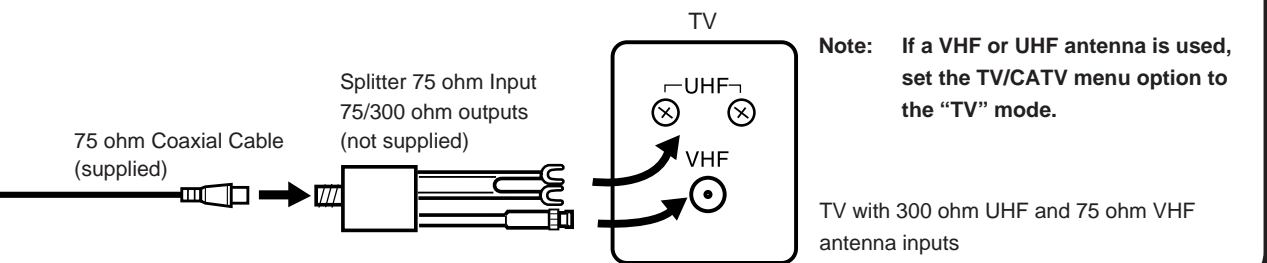
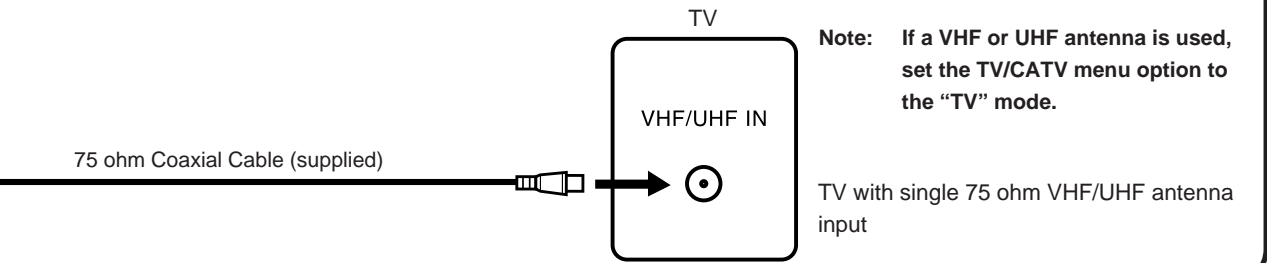
Note: If both VHF and UHF antennas have 300 ohm twin lead (flat) wires, use a combiner having two 300 ohm inputs and one 75 ohm output.

- Notes:**
- A clear picture will not be obtained by the DVD/VCR unless the antenna signal is good. Connect the antenna to the DVD/VCR properly.
 - For better quality recording, an indoor antenna or a telescopic antenna is not recommended. The use of an outdoor type antenna is required.
 - If you are not sure about the connection, please refer to qualified service personnel.

DVD/VCR to TV connection

After you have connected the antenna to the DVD/VCR, you must connect the DVD/VCR to the TV. Below are 3 common methods of connecting your DVD/VCR to a TV. Find the type of TV you are using and follow the connection diagram.

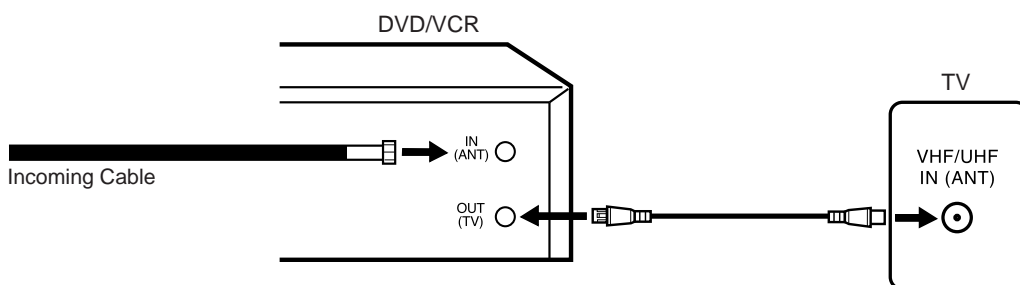
This DVD/VCR has a single 75 ohm output for connection to a TV. If your TV has separate VHF and UHF antenna inputs (numbers 2 and 3 below), use a splitter to connect the DVD/VCR to the TV for VHF and UHF reception.



CATV (CABLE TV) connections

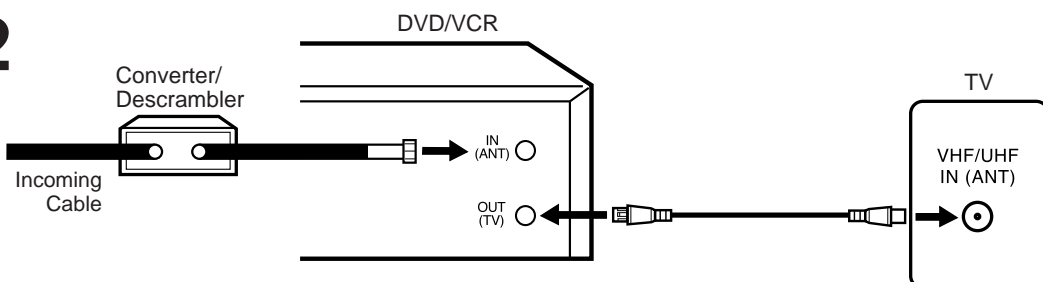
Many cable companies offer services permitting reception of extra channels including pay or subscription channels. This DVD/VCR has an extended tuning range and can be tuned to most cable channels without using a cable company supplied converter box, except for those premium channels which are intentionally scrambled. If you subscribe to a premium channel which is scrambled, you must have a descrambler box for proper reception.

1



- Allows:**
- * Recording of nonscrambled channels.
 - * Use of the programmable timer.
 - * Recording of one channel while watching another.

2



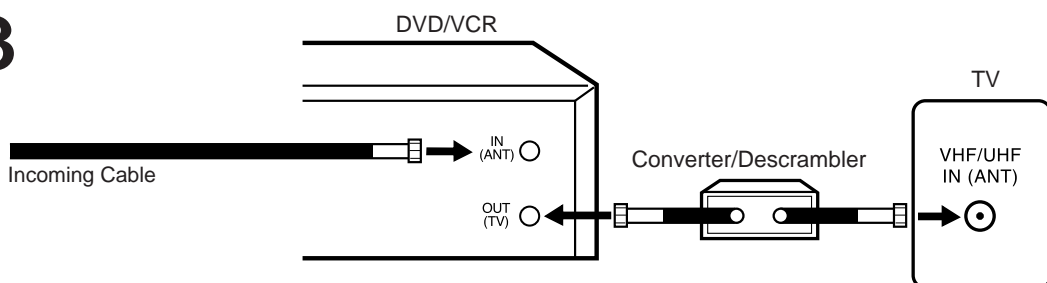
- Allows:**
- * Recording of channels through the converter box (scrambled and unscrambled).
 - * Using the programmable timer to record only the channel selected at the converter box.

- Prevents:**
- * Recording one channel while watching another.
 - * Using the DVD/VCR tuner to select channels.

Note:

To record from converter/descrambler, DVD/VCR tuner must be tuned to the converter output channel, usually channel 3 or 4.

3



- Allows:**
- * Recording of nonscrambled channels.
 - * Use of the programmable timer.
 - * Recording an unscrambled channel while watching any channel selected at the converter box.

- Prevents:** Recording scrambled channels.

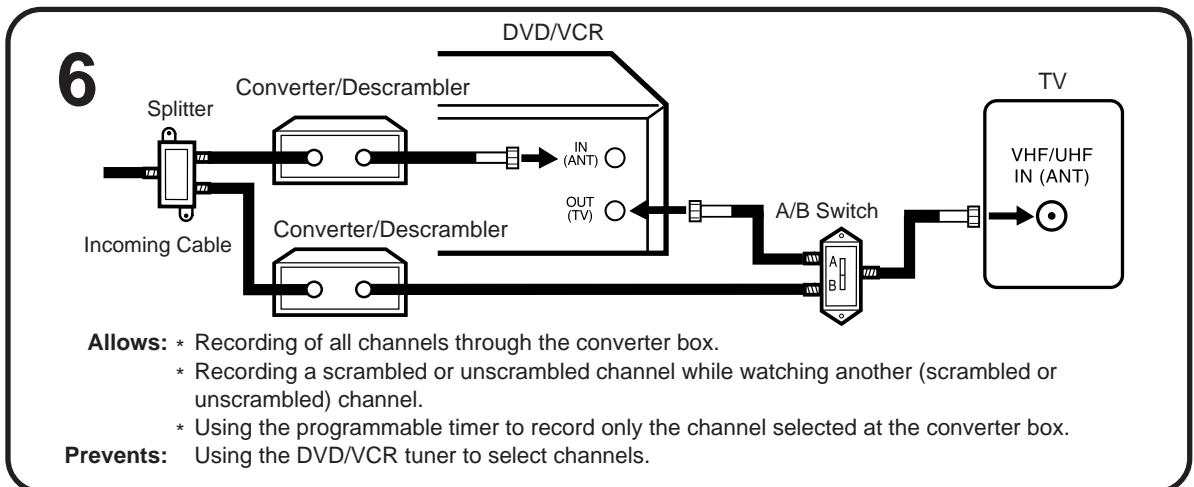
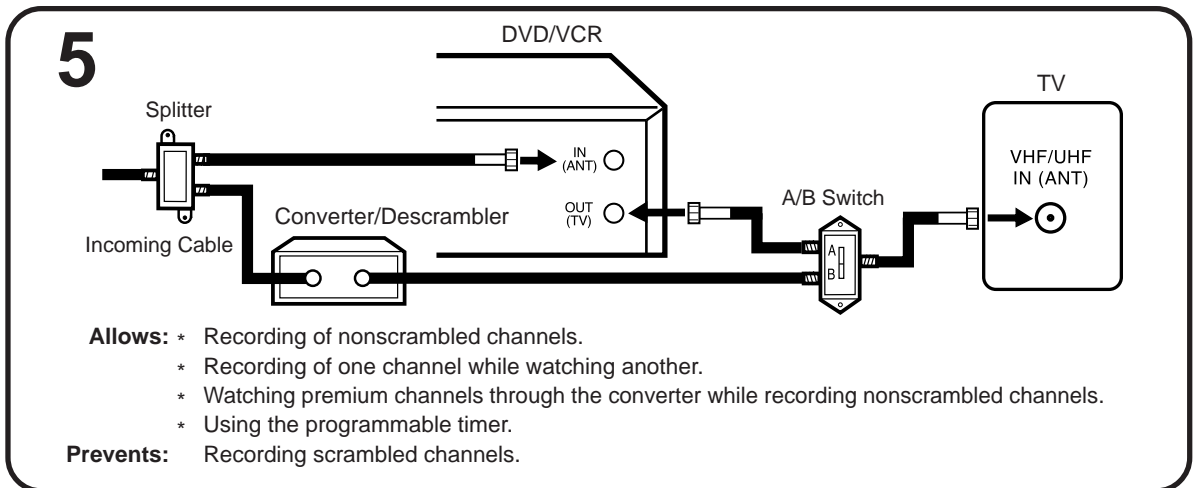
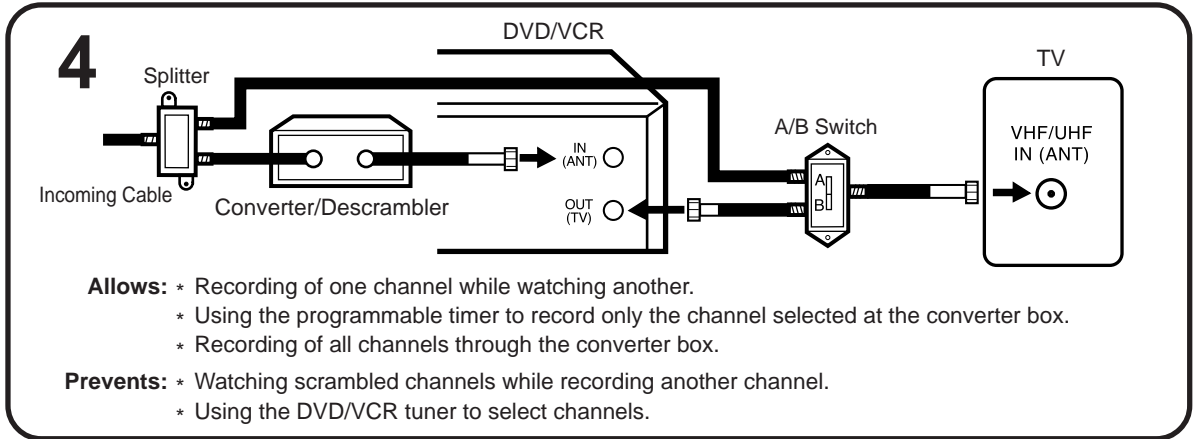
Note:

If you are playing a tape or using the tuner built into the DVD/VCR, the converter must be set to the video channel output of the DVD/VCR (either 3 or 4).

Note: Whenever a Converter/Descrambler box is placed before the DVD/VCR, you must tune the DVD/VCR to the output of the Converter/Descrambler box, usually channel 3 or 4.

IMPORTANT: Make sure the TV/CATV menu option is set to the "CATV" mode.

This DVD/VCR cannot receive scrambled programs since it does not contain a descrambler. In order to receive scrambled programs, your existing descrambler must be used. Descrambler boxes are available from cable companies. Consult your local cable company for more information concerning connection to their descrambler equipment. There are many ways to connect your DVD/VCR to a cable system. Below are six common methods of connection.

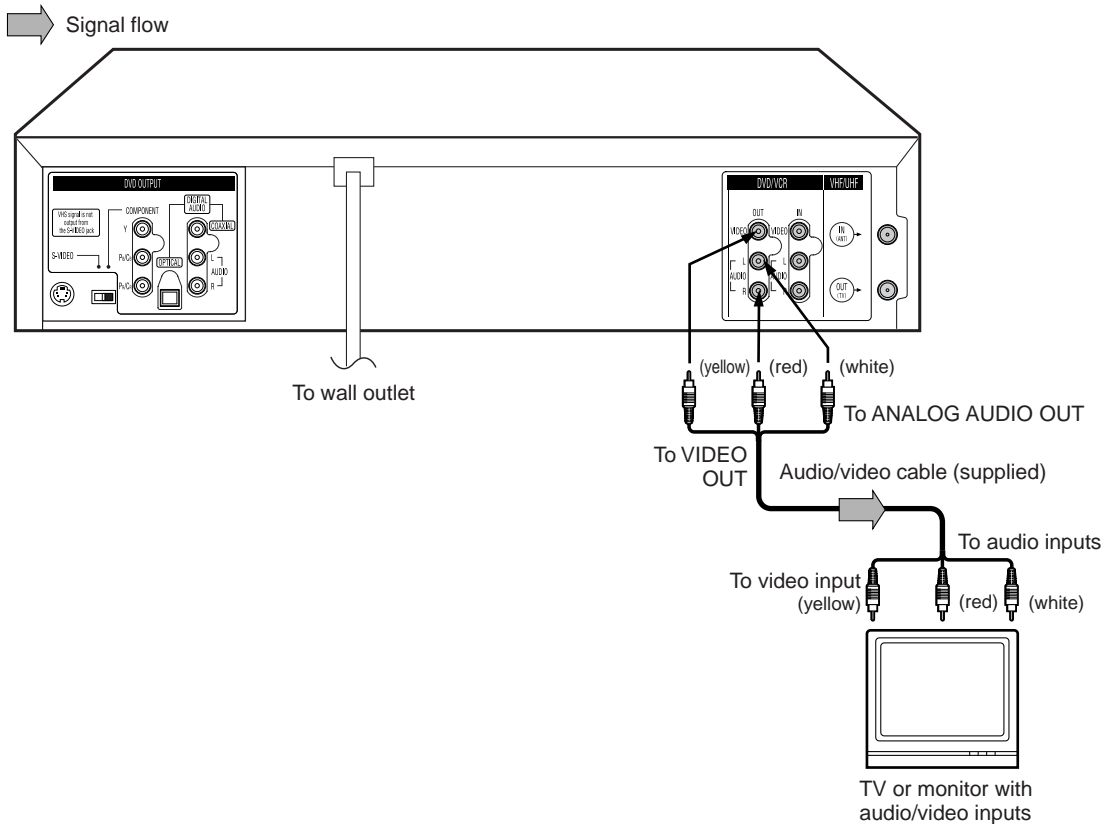


Connecting to a TV

Connect the DVD/VCR to your TV.

Note: This method transports VHS and DVD-video signals. For enhanced DVD-video performance, we recommend you also connect the S-video or ColorStream® component video outputs to your TV/monitor. (See page 19.)

Connecting to a TV

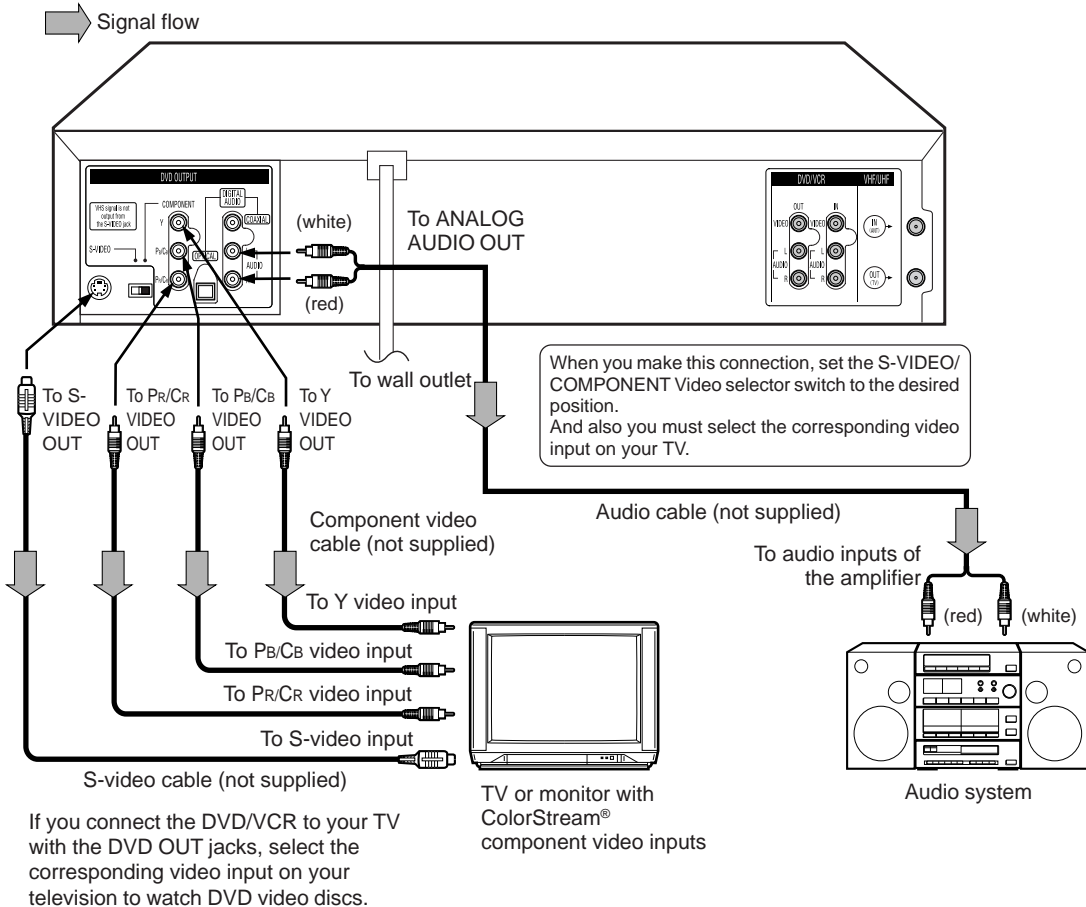


Notes:

- Refer to the owner's manual of the connected TV as well.
- When you connect the DVD/VCR to your TV, be sure to turn off the power and unplug both units from the wall outlet before making any connections.
- If your television set has one audio input, connect the left and right audio outputs of the DVD/VCR to a Y cable adapter (not supplied) and then connect to your TV.
- Connect the DVD/VCR directly to your TV. If you connect the DVD/VCR to a VCR, TV/VCR combination or video selector, the playback picture may be distorted as DVD video discs are copy protected.

Note: The S-video output and component video output transports the DVD-video signal exclusively and will deliver enhanced DVD video picture performance.

Connecting to an audio system and TV equipped with S-video input/component video inputs



Component video (ColorStream®) outputs/inputs

Some TVs or monitors are equipped with component video inputs. Connecting to these inputs allows you to enjoy the highest quality DVD picture playback.

Actual labels for component video inputs may vary depending on the TV manufacturer. (ex. Y, R-Y, B-Y or Y, Cb, CR) In some TVs or monitors, the color levels of the playback picture may be reduced slightly or the tint may change. In such a case, adjust the TV or monitor for optimum performance.






Notes:

- Refer to the owner's manual of the connected equipment as well.
- When you connect the DVD/VCR to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
- If you place the DVD/VCR near a tuner or radio, the radio broadcast sound might be distorted. In this case, place the DVD/VCR away from the tuner and radio.
- The output sound of the DVD/VCR has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.
- Turn off the amplifier before you connect or disconnect the DVD/VCR's power cord. If you leave the amplifier power on, the speakers may be damaged.
- An S-Video connection is superior to Video (Yellow) output. Use this method for DVD playback when the connected television has S-Video input, and does not have component video inputs.

Connecting to optional equipment

You can enjoy high quality dynamic sounds of DVD video discs or audio CDs by connecting the DVD/VCR to optional audio equipment.

For connection to your TV, see "Connecting to a TV" 18 19.

	: Front speaker		: Center speaker
	: Rear speaker		: Signal flow
	: Sub woofer		

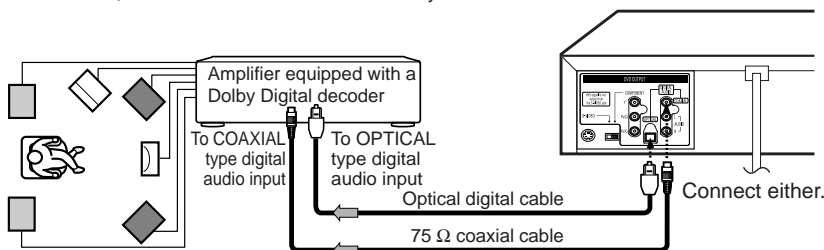
Connecting to an amplifier equipped with a Dolby Digital decoder

Dolby Digital

Dolby Digital is the surround sound technology used in theaters showing the latest movies, and is now available to reproduce this realistic effect in the home. You can enjoy motion picture and live concert DVD video discs with this dynamic realistic sound by connecting the DVD/VCR to a 6 channel amplifier equipped with a Dolby Digital decoder or Dolby Digital processor. If you have a Dolby Pro Logic Surround decoder, you will obtain the full benefit of Pro Logic from the same DVD movies that provide full 5.1-channel Dolby Digital soundtracks, as well as from titles with the Dolby Surround mark.

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

- Use DVD video discs encoded via the Dolby Digital recording system.



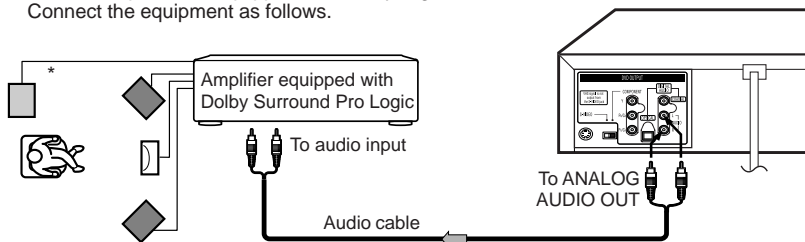
Connecting to an amplifier equipped with Dolby Surround Pro Logic

Dolby Surround Pro Logic

You can enjoy the dynamic realistic sound of Dolby Surround Pro Logic by connecting an amplifier and speaker system (right and left front speakers, a center speaker, and one or two rear speakers).

- With an amplifier equipped with Dolby Digital
Connect the equipment the same way as described in "Connecting to an amplifier equipped with a Dolby Digital decoder." Refer to that amplifier's owner's manual and set the amplifier so you can enjoy Dolby Surround Pro Logic sound.
- With an amplifier not equipped with Dolby Digital
Connect the equipment as follows.

* Connect one or two rear speakers. The output sound from the rear speakers will be monaural even if you connect two rear speakers.



Connecting to an amplifier equipped with a DTS decoder

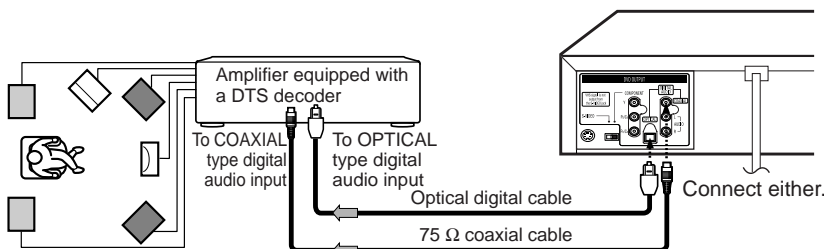
Digital Theater Systems (DTS)

DTS is a high quality surround technology used in theaters and now available for home use, on DVD video discs or audio CDs.

If you have a DTS decoder or processor, you can obtain the full benefit of 5.1 channel DTS encoded sound tracks on DVD video discs or audio CDs.

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

- Use DVD video discs or audio CDs encoded via the DTS recording system.



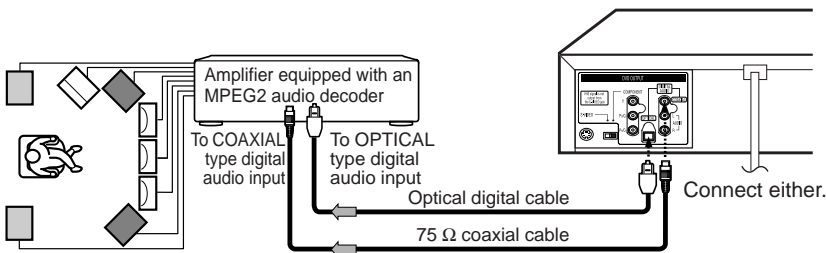
Warning

When playing DTS-encoded discs (audio CDs), excessive noise may be output from the analog stereo jacks. To avoid possible damage to the audio system, you should take proper precautions when the ANALOG AUDIO OUT (L/R) jacks of the DVD/VCR are connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the BITSTREAM/PCM AUDIO OUT jack of the DVD/VCR.

Connecting to an amplifier equipped with an MPEG2 audio decoder

MPEG2 sound

You can enjoy motion picture and live concert DVD video discs with dynamic realistic sound by connecting an amplifier equipped with an MPEG2 audio decoder or MPEG2 audio processor.

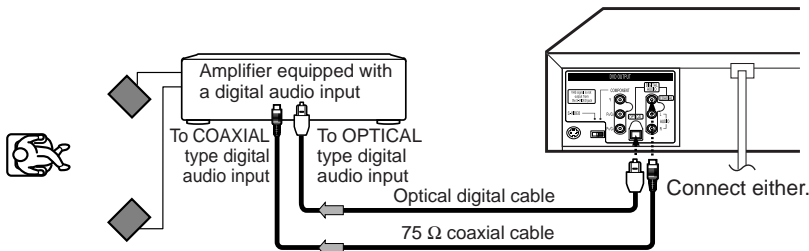


- Use DVD video discs encoded via the MPEG2 recording system.

Connecting to an amplifier equipped with a digital audio input

2 channel digital stereo

You can enjoy the dynamic sound of 2 channel digital stereo by connecting an amplifier equipped with a digital audio input and speaker system (right and left front speakers).

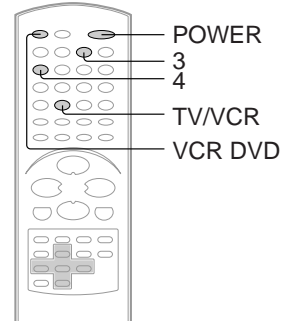


Notes:

- DO NOT connect the BITSTREAM/PCM AUDIO OUT jack of the DVD/VCR to the AC-3 RF input of a Dolby Digital Receiver. This input on your A/V Receiver is reserved for Laserdisc use only and is incompatible with the BITSTREAM/PCM AUDIO OUT jack of the DVD/VCR.
- Connect the BITSTREAM/PCM AUDIO OUT jack of the DVD/VCR to the "OPTICAL" or "COAXIAL" input of a Receiver or Processor.
- Refer to the owner's manual of the connected equipment as well.
- When you connect the DVD/VCR to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
- The output sound of the DVD/VCR has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.
- Turn off the amplifier before you connect or disconnect the DVD/VCR's power cord. If you leave the amplifier power on, the speakers may be damaged.

Setting the video channel

When a TV is connected with the 75 ohm coaxial cable only. To view playback of a recorded tape or DVD disc, or to watch a program selected by the VCR's channel selector, the TV must be set to channel 3 or 4 (video channel).

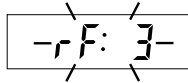


Setting the video channel

1 Press and hold 3 or 4 on the remote for 3 seconds in standby mode.



The video channel will start to flash for 3 seconds in the display window.



2 Press POWER to turn on the DVD/VCR.



3 Press VCR DVD selector to select the VCR mode.



The VCR indicator on the front panel will light.

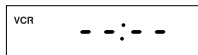


4 Turn ON the TV and set to CH 3 or 4 to correspond with the channel selected in step 1.

5 Press TV/VCR to select the VCR position.



The VCR indicator will appear in the display window.



6 Select any channel to receive a TV station in your area. The channel number will appear on the screen for about 4 seconds.

■ For a push-button TV tuner

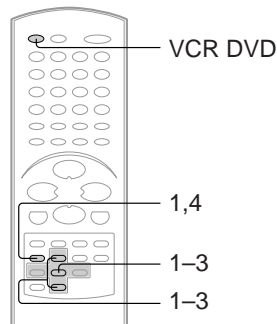
If CH 3 or 4 corresponding to the video channel cannot be tuned on your TV, proceed as follows: set the VCR 3/4 channel selector and the TV to CH 3 or 4, play back a prerecorded tape and tune the TV to receive a sharp color picture from the video cassette recorder. Refer to your TV owner's manual for details.

Notes:

- If the unit does not operate properly, or No key operation (by the unit and/or the remote control): Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.
- During the DVD playback if you change the operating mode from DVD to VCR, the DVD will continue to play back the disc and stop after about 5 minutes.

Setting the language

You can choose from three different languages (English, French and Spanish) for the on-screen displays.



Setting the language

Preparation:

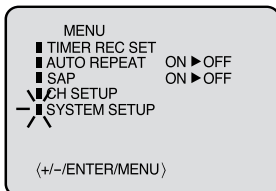
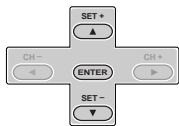
- Turn ON the TV and select to the corresponding video input.
- Press **VCR DVD** selector to select the VCR mode. (The VCR indicator will light.)

1 Press VCR MENU.

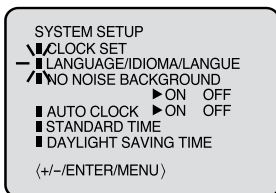
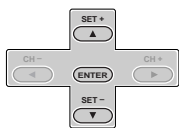
VCR MENU
SETUP



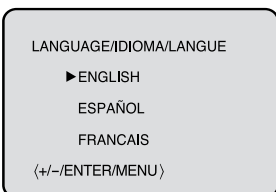
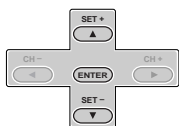
The VCR menu screen will appear. Press **SET +** or **-** to select "SYSTEM SETUP", then press **ENTER**. If you use the unit for the first time and press **VCR MENU**, instead of the main menu screen the "SYSTEM SETUP" menu screen in step 2 may appear.



2 Press SET + or - to select "LANGUAGE", then press ENTER.



3 Press SET + or - to select the desired language: English (ENGLISH), Spanish (ESPAÑOL) or French (FRANCAIS), then press ENTER.



4 Press VCR MENU until the MENU screen is cleared.

VCR MENU
SETUP

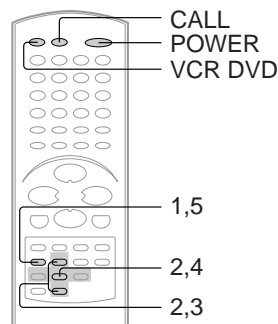


Notes:

- Both the VCR and the DVD have their own player menus **57**.
- If no buttons are pressed for more than 60 seconds, the VCR MENU screen will return to normal TV-operation automatically.

Clock setting

The AUTO CLOCK function will automatically set the built-in clock (Month, Day, Year and Time) when the DVD/VCR is connected to an Antenna or Cable system and it is turned off. The DVD/VCR searches for a station in your area containing the necessary AUTO CLOCK setting signals. Once received, it will take approximately 4 minutes for the clock to set itself automatically.




AUTO CLOCK setting


Preparation:

- Turn ON the TV and select the corresponding video input.
- Press **VCR DVD** selector to select the VCR mode. (The VCR indicator will light.)

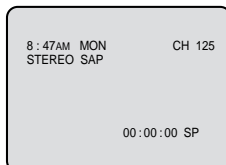
1 Connect the Antenna or Cable system.
• If you use a cable box, turn it on.

2 Plug the AC Power cord to the AC outlet.

3 Make sure the DVD/VCR is turned off.
 • If you press **POWER**, the Auto Clock set is not programmed.

4 Wait at least three minutes and press **POWER**.


5 Press **CALL** to check the clock setting on the on screen display.



6 If the clock is not set, check the antenna condition. The AUTO CLOCK may not function properly if the reception condition is not good.

AUTO CLOCK adjustment

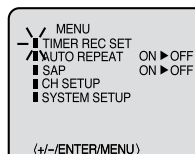
The auto clock adjustment will be updated at 6:00 AM, 12:00 PM and 6:00 PM everyday when the DVD/VCR turned off.

- If you use a cable box and you want AUTO CLOCK adjustment to be performed, the cable box must be left on.
- The AUTO CLOCK adjustment is not effective when there is a difference of more than 5 minutes exists between the built-in clock time and the actual time.

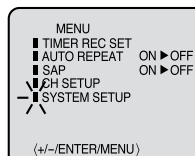
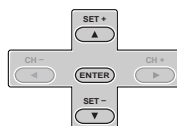
To set AUTO CLOCK to off

When shipped from factory the AUTO CLOCK is set to "ON". But if you do not want AUTO CLOCK setting:

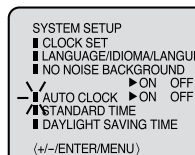
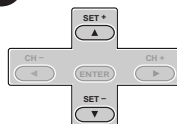
1 Press **VCR MENU**.



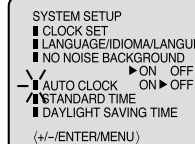
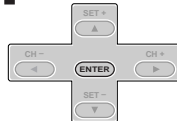
2 Press **SET +** or **-** to select "SYSTEM SETUP", then press **ENTER**.



3 Press **SET +** or **-** to select "AUTO CLOCK".



4 Press **ENTER** to select "OFF".



5 Press **VCR MENU** repeatedly to return to the normal screen.



- When the AUTO CLOCK is set to "OFF", the AUTO CLOCK adjustment does not function.
- Set the clock manually **[26]**.

To set STANDARD TIME

In the rare event that you live within broadcast range of two stations in two different time zones, the DVD/VCR may recognize the wrong station for the AUTO CLOCK setting. To correct the situation:

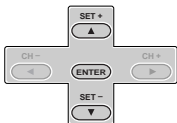
1 Press VCR MENU.

VCR MENU
SETUP



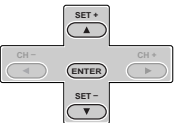
MENU
 TIMER REC SET ON ▶ OFF
 AUTO REPEAT ON ▶ OFF
 SAP ON ▶ OFF
 CH SETUP
 SYSTEM SETUP
 (<+/->/ENTER/MENU)

2 Press SET + or - to select "SYSTEM SETUP", then press ENTER.



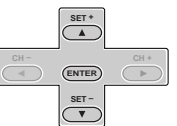
MENU
 TIMER REC SET ON ▶ OFF
 AUTO REPEAT ON ▶ OFF
 SAP ON ▶ OFF
 CH SETUP
 SYSTEM SETUP
 (<+/->/ENTER/MENU)

3 Press SET + or - to select "STANDARD TIME", then press ENTER.



SYSTEM SETUP
 CLOCK SET
 LANGUAGE/IDIOM/LANGUE
 NO NOISE BACKGROUND
 AUTO CLOCK ▶ ON OFF
 STANDARD TIME
 DAYLIGHT SAVING TIME
 (<+/->/ENTER/MENU)

4 Press SET + or - to select your time zone, then press ENTER.



ATLANTIC : GMT-4hours
 EASTERN : GMT-5hours
 CENTRAL : GMT-6hours
 MOUNTAIN : GMT-7hours
 PACIFIC : GMT-8hours
 ALASKA : GMT-9hours
 HAWAII : GMT-10hours
 AUTO : AUTO SET
 (GMT: Greenwich Mean Time)

5 Press VCR MENU twice to return to the normal screen.

VCR MENU
SETUP

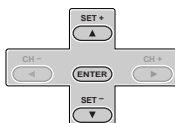


To set DAYLIGHT SAVING TIME

You can set the DAYLIGHT SAVING TIME automatically or manually.

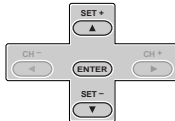
1 Press VCR MENU. Press SET + or - to select "SYSTEM SETUP", then press ENTER.

VCR MENU
SETUP



MENU
 TIMER REC SET ON ▶ OFF
 AUTO REPEAT ON ▶ OFF
 SAP ON ▶ OFF
 CH SETUP
 SYSTEM SETUP
 (<+/->/ENTER/MENU)

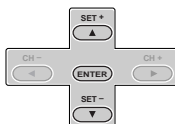
2 Press SET + or - to select "DAYLIGHT SAVING TIME", then press ENTER.



SYSTEM SETUP
 CLOCK SET
 LANGUAGE/IDIOM/LANGUE
 NO NOISE BACKGROUND
 AUTO CLOCK ▶ ON OFF
 STANDARD TIME
 DAYLIGHT SAVING TIME
 (<+/->/ENTER/MENU)

3 Press SET + or - to select one of the options, then press ENTER. Press VCR MENU until the MENU screen is cleared.

VCR MENU
SETUP



ON: for manual setting
(forward one hour)
OFF: for manual setting
(back one hour)
AUTO: for automatic setting
(read XDS in the signal)

When you want to set the DAYLIGHT SAVING TIME manually, on the first Sunday in April you set to "ON", and on the last Sunday in October you set to "OFF".

DAYLIGHT SAVING TIME
 ON
 OFF
 ▶ AUTO
 (<+/->/ENTER/MENU)

Notes:

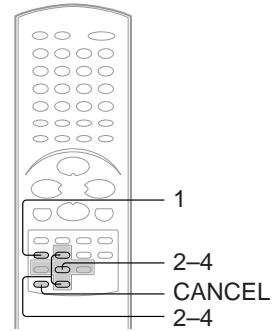
- When shipped from factory, the DAYLIGHT SAVING TIME is set to "AUTO" position.
- When the clock is not set, DAYLIGHT SAVING TIME setting is not available.
- When there is no DAYLIGHT SAVING TIME in your area, always select "OFF" position in step 3.

Notes:

- To be able to select the standard time, the clock must first be set by AUTO CLOCK once.
- If you live in Newfoundland and the AUTO CLOCK does not function properly, set the AUTO CLOCK menu option to "OFF" and set the clock manually.

Clock setting (continued)

If the AUTO CLOCK process did not set the date and time correctly, you must set them manually for timer recording and DAYLIGHT SAVING TIME.



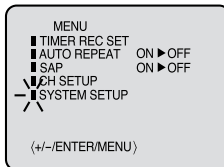
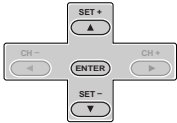
Manual clock Setting

EXAMPLE: Setting the clock to "8:30 AM" October, 26 (SUN), 2003.

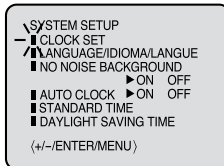
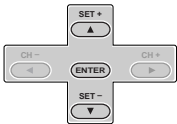
1 Press VCR MENU.



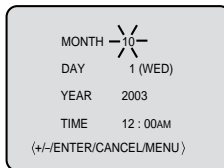
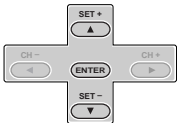
2 Press SET + or - to select "SYSTEM SETUP", then press ENTER.



3 Press SET + or - to select "CLOCK SET", then press ENTER.



4 Press SET + or - to set the month, then press ENTER.



5 Set the day, year and time as in step 4.



6 After setting the clock, date and time starts functioning automatically.

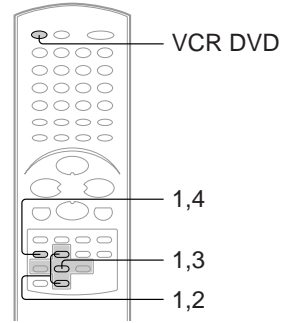


■ To make corrections any time during the process Press **CANCEL** repeatedly until the item you want to change blinks, then press **SET +** or **-**.

Note: After a power failure or disconnection of the power, the timer settings will be lost. In this case, reset the present time.

Tuner setting

This DVD/VCR is equipped with a channel memory feature which allows channels to skip up or down to the next channel set into memory, skipping over unwanted channels. Before selecting channels, they must be programmed into the DVD/VCR's memory. In addition to normal VHF and UHF channels, this DVD/VCR can receive up to 113 Cable TV channels. To use this DVD/VCR with an antenna, set the TV/CATV menu option to the TV mode. When shipped from the factory, this menu option is in the CATV mode.



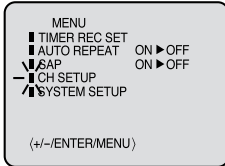
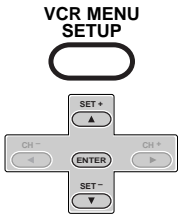
TV/CATV selection

Setting channels automatically

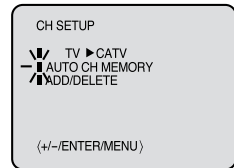
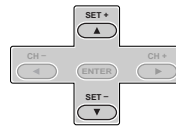
Preparation:

- Turn ON the TV and select to the corresponding video input.
- Press **VCR DVD** selector to select the VCR mode. (The VCR indicator will light.)

1 Press **VCR MENU**. Press **SET + or -** to select "**CH SETUP**", then press **ENTER**.

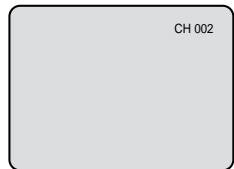
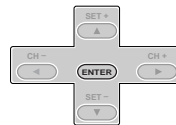


1 Repeat left step 1 and press **SET + or -** to select "**AUTO CH MEMORY**".

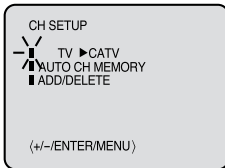
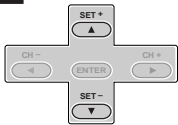


2 Press **ENTER**.

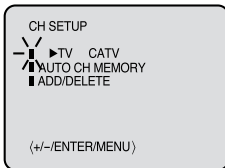
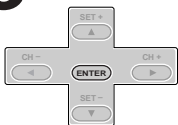
Auto tuning will begin. The channel display will count up and when finished, the screen returns to normal.



2 Press **SET + or -** to select "**TV/CATV**".



3 Press **ENTER** to select the **TV** or **CATV** mode. The arrow indicates the selected mode.



TV - VHF/UHF channels
CATV - CABLE TV channels

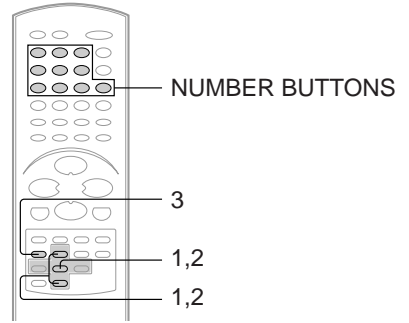
4 Press **VCR MENU** until the menu screen is cleared.



Note:

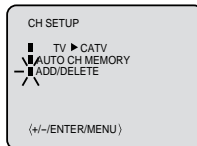
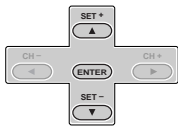
You can't select "CH SETUP" if you set the channel to "L1" or "L2".

Tuner setting (continued)



To ADD/DELETE channels

1 Repeat the step 1 on page 27. Then press **SET +** or **-** to select the "ADD/DELETE" and press **ENTER**.



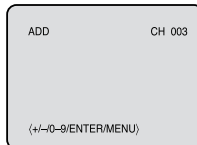
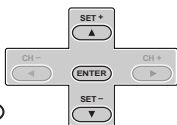
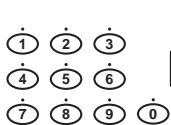
2 To Add or Delete desired channels

1 Press **Number buttons** or **SET +** or **-** to select a channel number you want to add or delete.

2 **To add channels**
Press **ENTER** until "ADD" appears on the screen.

To delete channels
Press **ENTER** until "DELETE" appears on the screen. The channel number will blink.

3 Repeat **1** to **2** to add or delete other channel.



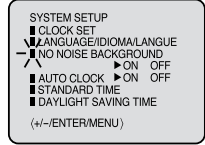
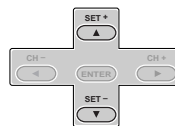
3 Press **VCR MENU** until the menu screen is cleared.



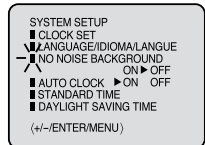
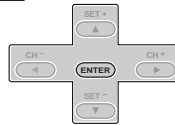
Noise elimination

When you don't want to receive a weak signal broadcast, a Blue back screen can be obtained by selecting the NO NOISE BACKGROUND "ON". When the unit is shipped from the factory, the NO NOISE BACKGROUND is set to "ON".

1 Repeat the steps 1~2 on page 26 and press **SET +** or **-** to select "NO NOISE BACKGROUND".



2 Press **ENTER** to select "ON" or "OFF" position.

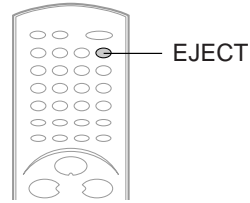


3 Press **VCR MENU** until the menu screen is cleared.



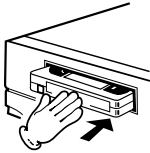
Loading and unloading a cassette tape

Use only video cassette tapes marked **VHS** and **SVHS**.

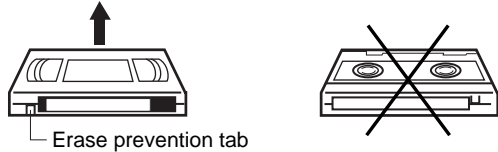


Loading

Push the center of the tape until it is automatically inserted.



Insert the cassette tape with its labeled side facing up and the erase prevention tab positioned at your left. An inverted cassette tape cannot be inserted.



Automatic power ON

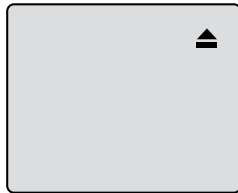
When you insert a cassette tape the DVD/VCR power will turn ON automatically.

Automatic playback

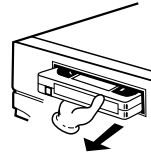
When loading a cassette tape without an erase prevention tab, playback will start automatically.

Unloading

1 Press **EJECT** on the front panel or on the Remote.



2 Remove the cassette tape.



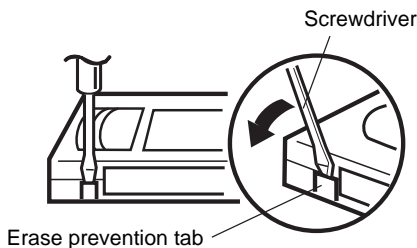
Automatic tape eject

This DVD/VCR will automatically rewind the tape when the tape has ended. Once the tape is rewound to its beginning, the cassette tape will be ejected automatically.

To prevent accidental erasure

To prevent accidental erasure

Remove the erase prevention tab with a screwdriver.



To record again

Cover the hole with a piece of adhesive tape.

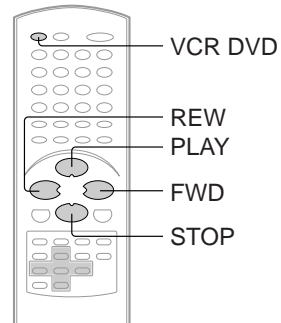


Tape speed and maximum recording time

Tape Speed	Video cassette tape				
	T-160	T-120	T-90	T-60	T-30
SP (Standard Play)	2-2/3 hours	2 hours	1-1/2 hours	1 hour	30 minutes
SLP (Super Long Play)	8 hours	6 hours	4-1/2 hours	3 hours	1-1/2 hours

Cassette tape playback

To play a prerecorded tape.



Playback

Preparation:

- Turn ON the TV and select the corresponding video input.
- Press **VCR DVD** selector to select the VCR mode. (The VCR indicator will light).

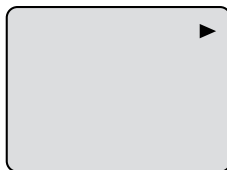
1 Load a prerecorded tape

(When loading a cassette tape without the erase prevention tab, playback will start automatically).



2 To start playback

Press **PLAY**. Playback will start. "▶" will appear on the screen for about 4 seconds.



To stop playback

Press **STOP** once. The tape will stop but remain fully loaded and ready to play. "■" will appear on the screen for about 4 seconds.



Notes:

- This VCR selects the playback tape speed SP, LP or SLP automatically.
- The Cassette tape and DVD disc can be played back simultaneously. If you press **VCR DVD** selector, the tape playback and DVD playback alternate with each other on the screen (via CH3, 4 or video connection).
- When you select the VCR mode during DVD playback, DVD playback will stop automatically after approx. 5 minutes.

Rewind or forward the tape

Stop the playback or recording via **STOP** on remote.

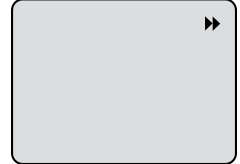
To rewind the tape:

Press **REW**.



To forward the tape:

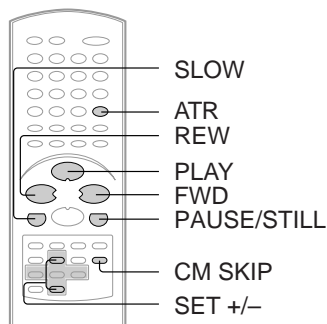
Press **FWD**.



To discontinue the tape-winding, press **STOP**. To switch to playback directly (without **STOP**), press **PLAY**.

■ Forward/Reverse picture search mode

When the tape is being winded, you can switch to picture search mode (see next page). To do this, press **REW** or **FWD** and hold it down. The unit will resume the tape advance or rewinding as soon as the button is released.



Picture search

Reverse picture search function

Press **REW** once or twice during playback.

Forward picture search function

Press **FWD** once or twice during playback.

To return to playback, press **PLAY**.

SPEED SEARCH TIMES

TAPE SPEED	PICTURE SEARCH SPEED	
	PRESS ONCE	PRESS TWICE
SP (Standard Play)	3 X	5 X
LP (Long Play)	7 X	9 X
SLP (Super Long Play)	9 X	15 X

Still picture

Press **PAUSE** during playback.

To resume normal playback, press **PLAY** or **PAUSE/STILL**.

Slow motion

During playback press **SLOW**.

To return to playback, press **PLAY** or **SLOW**.

Slow tracking and vertical lock adjustment

If noise bars appear in the picture during slow motion, press the **SET +/-** to reduce the noise bars.

If the still picture jitters excessively, press **SET +/-** to stabilize the still picture.

Frame by frame picture

Press **PAUSE/STILL** during playback.

Press **SLOW** repeatedly: The picture advances frame by frame.

To return to playback, press **PLAY** or **PAUSE/STILL**.

CM skip

Press **CM SKIP** during playback. The DVD/VCR will search forward through approximately 30 seconds of the tape (e.g. unwanted commercial time) for each press of **CM SKIP** (maximum six presses) and then resume normal playback.

For example : 1 press: 30 seconds of tape
 2 press: 60 seconds of tape
 3 press: 90 seconds of tape

Adjusting tracking condition

Automatic tracking adjustment

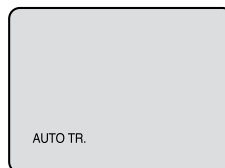
Whenever you insert a tape and start playback, the automatic tracking feature continuously analyzes the signal to enable optimum picture quality during playback.

Manual tracking adjustment

If automatic tracking cannot eliminate noises well during playback, press **SET +/-** to eliminate the noise. "MANUAL TR." will appear on the screen. Press it briefly for a fine adjustment, or press and hold for a coarse adjustment.

Press **ATR** to reactivate automatic tracking again.

"AUTO TR." will appear on the screen.



Notes:

- The audio output is muted during SPEED SEARCH, STILL, FRAME ADVANCE and SLOW MOTION.
- During picture search mode there will be noise bars. This is not a defect.
- Playback will commence after approx. 5 minutes to protect the video tape against excessive wear during pause mode.

Video head cleaning

Video head clogging

The video heads are the means by which the DVD/VCR reads the picture from the tape during playback. In the unlikely event that the heads become dirty enough to be clogged, no picture will be displayed. This can easily be determined if, during playback of a known good tape, there is good sound, but no picture (picture is extremely snowy). If this is the case, have the DVD/VCR checked and cleaned by qualified service personnel.



Good Picture

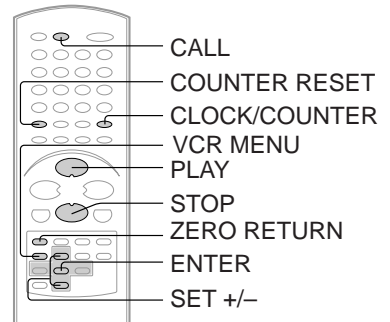


Snowy Picture

Notes:

- DO NOT ATTEMPT TO CLEAN THE VIDEO HEADS OR SERVICE THE UNIT BY REMOVING THE REAR COVER.
- Video heads may eventually wear out and should be replaced when they fail to produce clear pictures.
- To help prevent video head clogging, use only good quality VHS tapes. Discard worn out tapes.

Convenience function

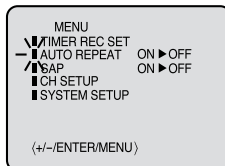
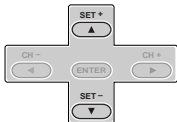


Repeat playback

The entire video tape will play until its end. The tape will automatically rewind to the beginning and the playback will be repeated.

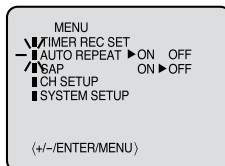
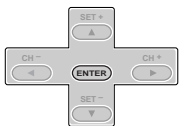
1 Press VCR MENU.

Press **SET +** or **-** to select "AUTO REPEAT".



2 Press ENTER to select "ON" or "OFF".

If "ON" is selected, the playback will be repeated endlessly.



3 Press VCR MENU until the menu screen is cleared.

If you press **CALL**, "⏪" will appear on the screen **11**.



4 To commence playback, press PLAY.

The playback will be repeated endlessly.



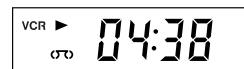
Zero return function

This function rewinds the tape to the "00:00:00" counter position automatically.

1 Press CLOCK/COUNTER.

The counter display shows the tape running time during playback or recording.

CLOCK/COUNTER



2 Press COUNTER RESET at the desired tape position.

The counter display will be reset to "00:00:00" position (e.g. the beginning of recording).

COUNTER RESET ANGLE



3 Press STOP when playback or recording is completed. Press ZERO RETURN.

The tape will automatically rewind or fast forward to the "00:00:00" counter position.

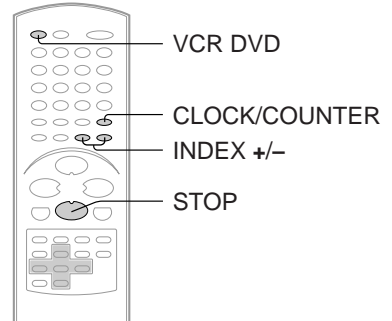


ZERO RETURN JUMP



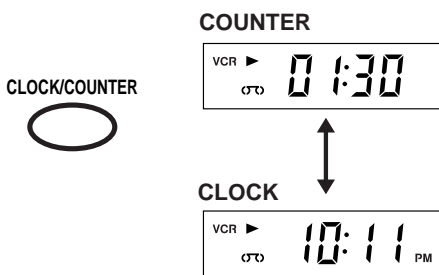
To cancel repeat mode:

Follow the above step 1, then press **ENTER** to select "OFF" position. Press **VCR MENU** to return to the TV.

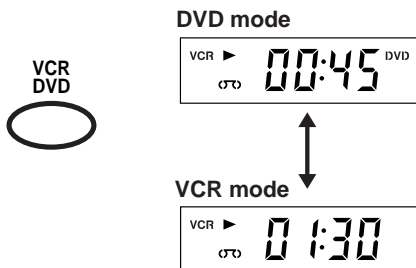


Clock/counter display

Press **CLOCK/COUNTER**. The clock and tape counter alternate with each other in the display window.



Press **VCR DVD selector**. The DVD mode and the VCR mode alternate with each other in the display.



Notes:

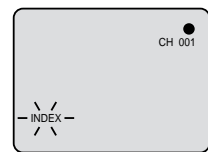
- If you rewind the tape beyond "00:00:00", a minus sign ("–") will be displayed in front of the time.
- When you load a tape, the counter will reset to "00:00:00".
- The counter does not function on nonrecorded (blank) sections of the tape. When you rewind, fast forward or play tapes through blank sections, the counter stops.

Video index search system

This function enables you to locate the beginning of any recording made on the VCR.

Recording an INDEX mark

The Index Search function automatically records an INDEX mark on the tape whenever a recording is initiated.



Index search

Press **INDEX +** or **–** during stop or play mode.

For Succeeding programs: Press **INDEX +**.

For Preceding programs: Press **INDEX –**.

(As many as 9 index points can be accessed via this method.)

When the **INDEX +** or **–** is pressed, the unit starts searching the INDEX NO. selected and finds the portion, then playback starts automatically.

To stop the Index Search, press

STOP.



Notes:

- When you record an INDEX mark at the very beginning of the tape, the mark may not be found.
- During INDEX search, the tape may stop and begin to play at a slightly different location.
- INDEX may not function properly with old or worn out video tapes.
- INDEX marks may not be found if it is extremely close to the point where the search began.
- In recording, if you stop recording temporarily, the INDEX mark is not recorded on the tape.

SQPB (S-VHS Quasi Playback)

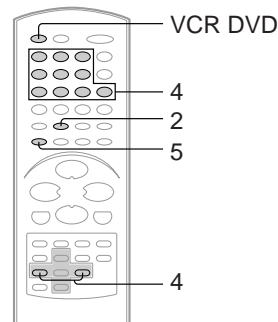
You can playback video cassette tapes recorded in the S-VHS system.

However, the picture will not have the high resolution of S-VHS system.

Note: You cannot record S-VHS video format with this VCR.

Recording a TV program

Recording and viewing the same TV program.



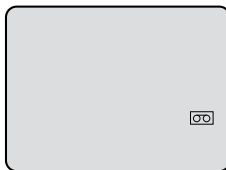
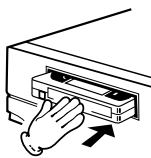
Recording a TV program

Preparation:

- Turn ON the TV and select to the corresponding video input.
- Press **VCR DVD** selector to select the VCR mode. (The VCR indicator will light.)

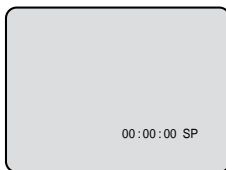
1 Load a cassette tape with the erase prevention tab intact.

The DVD/VCR will automatically turn on.



2 Press SP/SLP to select the desired tape speed SP or SLP.

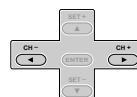
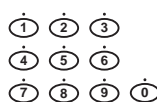
The tape counter and "SP" or "SLP" will appear on the screen for about 4 seconds.



3 Select "TV" or "CATV" to the appropriate position [27].

TV - VHF/UHF channels
CATV - CABLE TV channels

4 Press Number button or CH +/- to select the channel to be recorded.



TV mode direct channel selection:

All channels can be instantly selected by using two buttons. (for example, to select channel 2, press "0", then "2". If you press only "2", channel selection will be delayed for two seconds.) For channels 10 and above, press the 2 digits in order.

CATV mode direct channel selection:

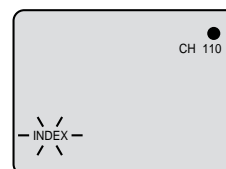
- 1-9 Press **0** twice and then **1-9** as required.
Example: To select "2", Press **002**.
- 10-12 Press **0** first and then the remaining 2 digits in order from left to right.
Example: Press **012** for "12".
- 13-99 Press 2 digits in order.
Example: Press **22** for "22".
- 100-125 Press the 3 digits in order.
Example: Press **110** for "110".

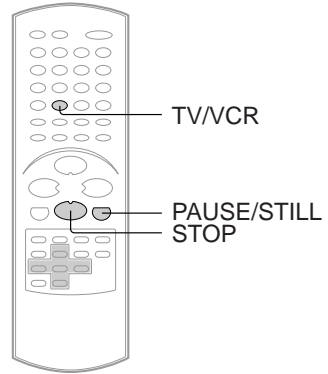
VHF/UHF/CATV CHANNELS

TV	CATV
VHF 2-13	VHF 2-13
UHF 14-69	STD/HRC/IRC 14-36 (A) (W) 37-59 (AA) (WW) 60-85 (AAA) (ZZZ) 86-94 (86) (94) 95-99 (A-5) (A-1) 100-125 (100)(125) 01 (5A)

5 Press REC.

"●" will appear on the screen for about 4 seconds and "REC" will appear on the display window.





To stop recording

Press **STOP** to stop recording.

“■” will appear on screen for about 4 seconds.



■ Auto Rewind feature

This VCR will automatically rewind the tape when the tape has ended (except during OTR and timer recording). It will also eject the tape.

To stop recording temporarily

Press **PAUSE/STILL** to avoid recording unwanted material. Press again to continue the recording.

“●||” will appear on screen for about 4 seconds.

PAUSE/STILL



Notes:

- The pause function will be released after 5 minutes to prevent damage to the tape or the VCR. The VCR will change to the STOP mode.
- You can select a recording channel in the recording pause mode.

Recording one program while watching another

While the VCR is recording, select your desired channel on the TV.

When a TV is connected with an antenna cable only, press TV/VCR to select the TV position.

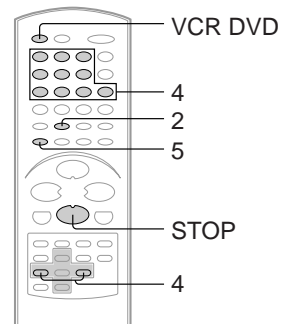
The “VCR” display will go off and recording will continue. Select the TV channel you want to watch by using the TV channel selector.

Note:

Some CATV hookups do not permit viewing one channel while recording another. See pages **16** and **17**.

One-touch Timer Recording (OTR)

The One-touch Timer Recording feature provides a simple and convenient way to make a timed recording.



One-touch Timer Recording (OTR)

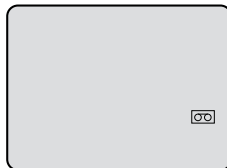
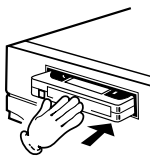
Preparation:

- Turn ON the TV and select to the corresponding video input.
- Press **VCR DVD** selector to select the VCR mode. (The VCR indicator will light.)

Example: One-touch Timer Recording for 30 minutes.

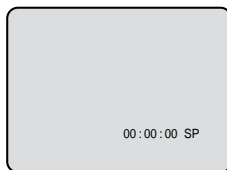
1 Load a cassette tape with the erase prevention tab intact.

The VCR will automatically turn on.



2 Press SP/SLP to select the desired tape speed SP or SLP.

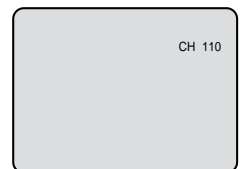
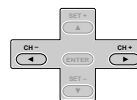
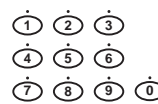
The tape counter and "SP" or "SLP" will appear on the screen for about 4 seconds.



3 Set "TV" or "CATV" option to the appropriate position .

TV - VHF/UHF channels
CATV - CABLE TV channels

4 Press Number button or CH +/- to select the channel to be recorded.

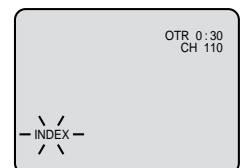


5 Press OTR. Recording begins. Press the button again to stop recording after 30 minutes. Each additional press of OTR will increase recording time as shown in the chart below, up to a maximum of 6 hours.

The OTR and recording time will appear on the screen for about 4 seconds. And, "●" will appear on the display.

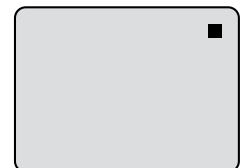
Press	Recording time	Press	Recording time
once	NORMAL REC	6 times	3:00
twice	0:30	7 times	4:00
3 times	1:00	8 times	5:00
4 times	1:30	9 times	6:00
5 times	2:00	10 times	NORMAL REC

REC/OTR




To cancel OTR

Press **STOP** or turn off the power.



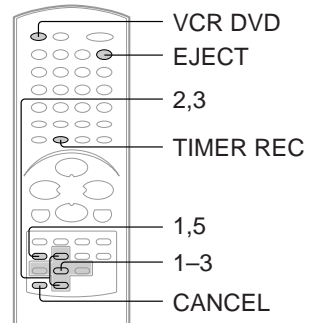
"■" will appear on screen for about 4 seconds.

Note:

If you wish to watch the DVD playback during OTR or standard recording, press **VCR DVD** selector to change to DVD mode and perform the DVD playback .

Timer recording

Timer recording can be programmed on-screen with the remote control. The built-in timer allows automatic unattended recording of up to 8 programs within 1 month.



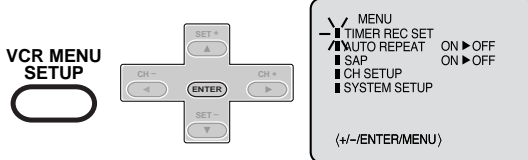
Timer recording

Preparation:

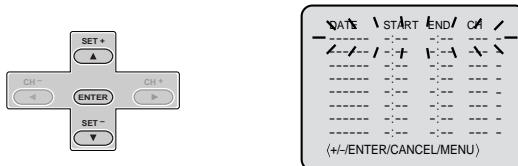
- Press **VCR DVD** selector to select the VCR mode.
- Load a cassette tape with the erase prevention tab intact.
- Check the time and date are correct [24].

Example: Program a timer recording for the 26th day, channel 125 (CATV), 11:00 - 11:30 PM on timer program number 1 (Tape speed: SLP).

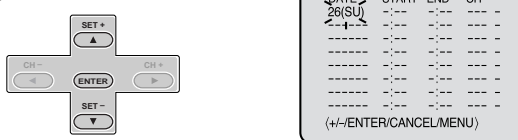
1 Press **VCR MENU**. Select “**TIMER REC SET**”, then press **ENTER**.



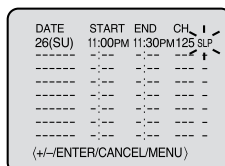
2 Press **SET +** or **-** to select one of the program line, then press **ENTER**.



3 Press **SET +** or **-** to select the date, then press **ENTER**.



4 Set the start time, end time, channel and tape speed as in step 3.



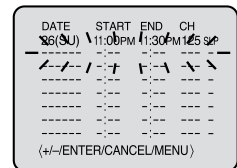
Notes:

- Press **CANCEL** to move cursor backward for correction.
- To record from external source set the channel to “L1” or “L2”.

5 To enter other programs, repeat step 2 through 4.



- To return to the normal screen, press **VCR MENU** twice.



6 Press **TIMER REC**. The timer symbol (□) will appear on the display and the VCR stands by for recording.



At the same time, VCR mode will change to DVD mode automatically. You can use DVD even if the VCR is in the timer recording mode. If you do not use the DVD, turn the power off.

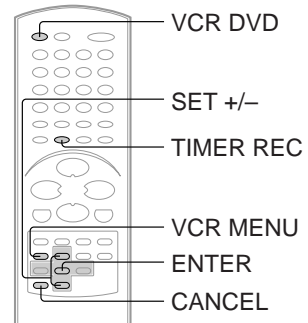
Notes:

- The timer recording will start at 5 seconds before the time you predetermined.
- If the timer symbol (□) does not appear on the display in spite of the pressing of **TIMER REC**, the cassette may not have been loaded. [29]
- If the cassette is ejected in spite of the pressing of **TIMER REC**, the erase prevention tab of the cassette may have been removed. [29]

Notes:

- If the timer symbol (□) blinks when the timer recording ended, the TV program has not been completely recorded because of an insufficient tape length. Press **TIMER REC** to cancel the timer program or press **EJECT** to remove the cassette tape.
- During timer recording standby mode, the VCR mode cannot be operated. To use the VCR, press **TIMER REC** at first, then press **VCR DVD** selector to change to VCR mode. After you use the VCR, press **TIMER REC** again to put the VCR into timer recording standby mode.
- If you press **TIMER REC** during timer recording, the recording operation will be interrupted. If you press **TIMER REC** again within the programmed time, the recording operation will start again.
- After a power failure or disconnection of the power plug, all programmed recording settings and time display will be lost upon resumption of power. In this case, reset the clock [24] and reprogram any timer recording.

Timer recording (continued)



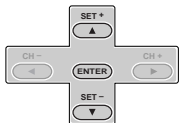
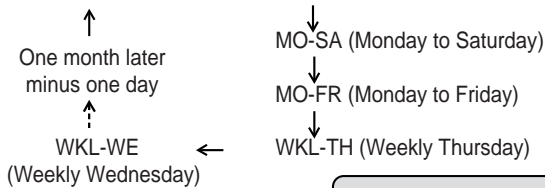
To set daily/weekly timer

Weekly (e.g. WKL-TU: each Tuesday) or daily (e.g. MO-SA: Monday to Saturday) Timer recording

Follow the procedure of timer recording on the previous page. At step 3 press **SET +** or **-** repeatedly until the desired setting appears. Then press **ENTER**.

When you press **SET -** repeatedly, the **DATE** indicator will change as follows, in this case the day is Friday.


The current day (Friday) → SU-SA (Sunday to Saturday)



DATE	START	END	CH
WKL-WE	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
(+/-)ENTER/CANCEL/MENU)			

To confirm or cancel a program

1 If the Timer has been activated, press **TIMER REC** to deactivate the Timer.

The timer symbol () will disappear. Then press **VCR DVD** selector to change to VCR mode.

TIMER REC



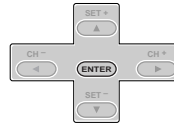
VCR DVD



2 To confirm Timer program:

At step 1 on the previous page select "TIMER REC SET" and press **ENTER**.

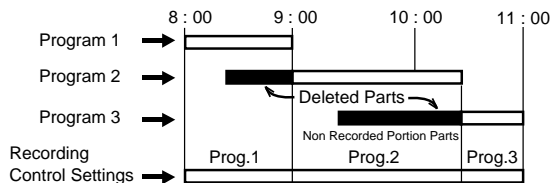
The timer program list will appear on the screen.



DATE	START	END	CH
26(SU)	11:00PM	11:30PM	125SLP
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
(+/-)ENTER/CANCEL/MENU)			

If the programs overlap another

Do not overlap timer programs as portions of the conflicting programs will be lost. The first recording time has priority over the next recording time as shown in the diagram below.

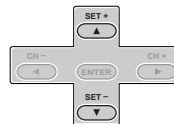


Notes:

- The daily/weekly recording can be made continuously until the recording is canceled or the tape reaches the end.
- During timer recording the automatic rewinding mechanism does not function.

3 To cancel Timer program:

Press **SET +** or **-** to select the unwanted program, then press **CANCEL** to cancel the program.



DATE	START	END	CA
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
(+/-)ENTER/CANCEL/MENU)			

4 Press **VCR MENU** repeatedly until the menu screen is cleared.

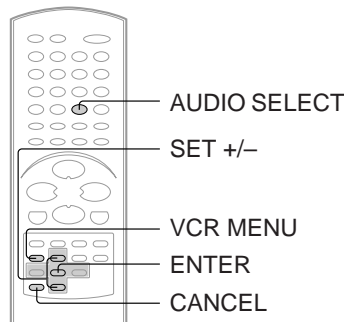
VCR MENU



Notes:

- If there are other timer record programs remaining, **TIMER REC** must be pressed to reactivate the timer, otherwise the remaining timer record programs will be ignored.
- You cannot confirm the Timer program during timer recording operation.
- You can correct or cancel a programmed setting in program confirm mode.

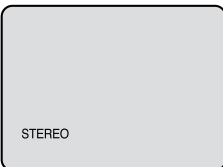
Stereo recording and playback / Second Audio Program (SAP)



Stereo recording and playback

The VHS Hi-Fi audio system permits high fidelity recording of MTS STEREO TV broadcasts.

When a MTS STEREO broadcast is received, "STEREO" will appear on the screen for about 4 seconds and the program can be viewed or recorded in stereo. The Hi-Fi stereo recording procedure is the same as for normal recordings.



Note:

When using a CATV system, stereo TV programs may be transmitted over a mono cable channel. In this case "STEREO" will not appear and the sound will be in mono.

AUDIO SELECT AUDIO



Output selection

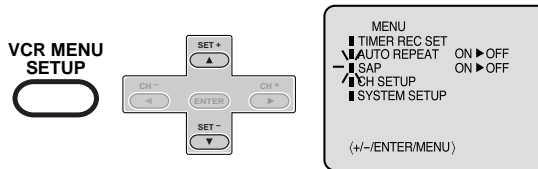
When viewing an MTS stereo TV program, or playing a prerecorded VHS Hi-Fi stereo videotape, press **AUDIO SELECT** to select how the audio will be heard through the speakers. Normally set to the Hi-Fi stereo position, this button can be set to the MONO position if the stereo broadcast or videotape audio is of poor quality. The "R" and "L" positions allow the audio from the Right or Left Hi-Fi channel to be heard over both TV speakers. This button has no effect when viewing a MONO videotape or TV program. Each time when you press the button, OUTPUT SELECTION display appears on the screen for several seconds. Refer to the chart below.

OUTPUT SELECTION	SOUND HEARD ON BOTH SPEAKERS
STEREO	STEREO
L CH	LEFT CHANNEL AUDIO
R CH	RIGHT CHANNEL AUDIO
MONO	MONO

Second Audio Program (SAP)

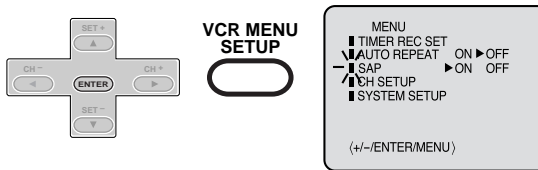
Your DVD/VCR is fitted with a SAP broadcast system which enables you to switch to a second audio program when viewing a selected channel. This function applies only when the program is broadcast in multi-languages through the SAP broadcast system.

1 Press VCR MENU. Then press SET + or - to select "SAP".



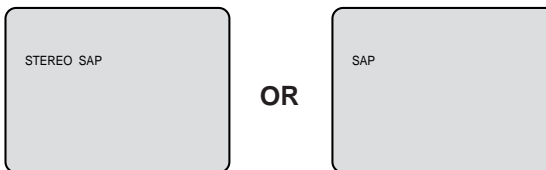
2 Press ENTER to select "ON".

Then press **VCR MENU** until the menu screen is cleared.



Listening to SAP

When the VCR is turned on or a channel selection is made, make certain the letters "SAP" appears on the screen for about 4 seconds. This means that the "Second Audio Program" broadcasting is available.

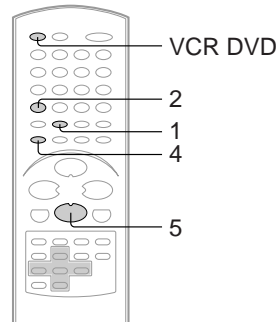


Notes:

- When playing back a tape that is not recorded in Hi-Fi stereo mode, the audio will automatically be monaural.
- When listening to a VHS Hi-Fi video tape or MTS broadcast through the VHF/UHF jack (Audio/Video cable not connected), the sound will be monaural.

Duplicating a video tape

If you connect the DVD/VCR to another VCR or Camcorder, you can duplicate a previously recorded tape. Make all connections before turning on the power.



Duplicating a video tape

Preparation:

- Turn ON the TV and select the corresponding video input.
- Press **VCR DVD** selector to select the VCR mode. (The VCR indicator will light.)
- Load a cassette tape with the erase prevention tab intact.
- Load a previously recorded tape into the playback VCR or Camcorder.

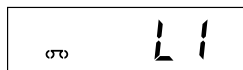
1 Press SP/SLP to select the desired tape speed SP or SLP.



It is recommended that you set the tape speed to the SP mode on the recording VCR for best results.

2 Press INPUT SELECT once or twice to select AUDIO/VIDEO input position.

"L1" or "L2" will appear in the display.



L1: on the rear panel
L2: on the front panel

3 Press PLAY on the playback VCR or Camcorder.

4 Press REC on the recording VCR.

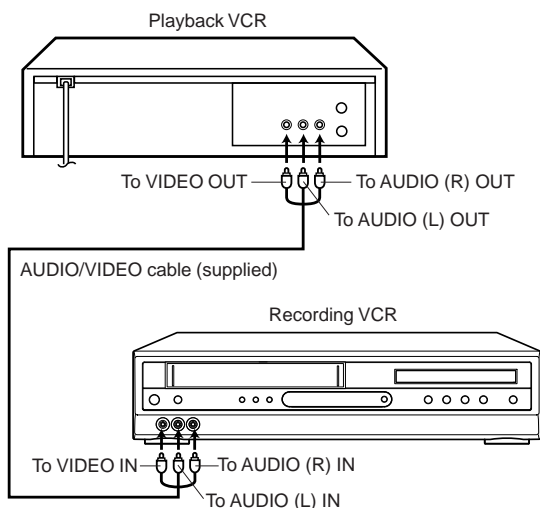
The duplicating process begins.



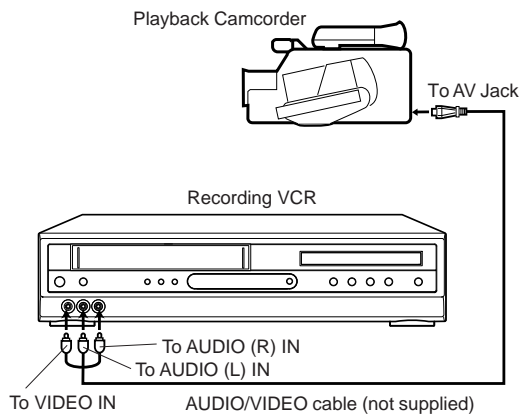
5 Press STOP after duplicating a video tape.



Connection with second VCR



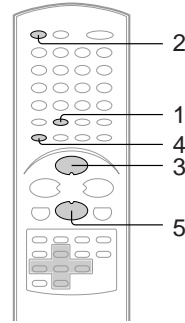
Connection with Camcorder



For duplicating a previously recorded tape from a camcorder, follow the camcorder manufacturer's instructions. A typical camcorder dubbing hookup is shown above.

Recording a DVD/CD disc

You can record disc material in DVD, Audio CD, etc. onto a Video tape with this DVD/VCR.



Duplicating a DVD or CD disc

Preparation:

- Turn ON the TV and select the corresponding video input.
- Press **VCR DVD** selector to select the VCR mode. (The VCR indicator will light.)
- Load a cassette tape with the erase prevention tab intact.
- Load a DVD/CD disc.

Notes:

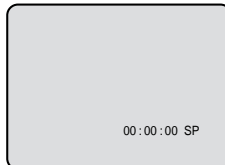
- You may not be able to record the beginning of the disc. Begin VCR recording once program playback commences on the DVD.
- You can not record discs encoded with copy guard function. The following icon and text will show up on the TV screen.



DISC IS COPY PROTECTED

1 Press SP/SLP to select the desired tape speed SP or SLP.

SP/SLP
PLAY MODE



2 Press VCR DVD selector to select the DVD mode. The DVD indicator will light.

VCR
DVD



DVD

3 Press PLAY to start playback.

PLAY



4 Press REC to start recording.

REC/OTR



The DVD/VCR will change to the VCR mode automatically and the playback picture or sound will be duplicated on the video cassette tape.

5 Press STOP if you finish recording.

STOP

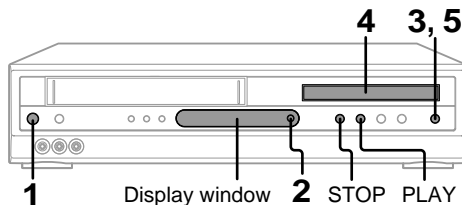


If you wish to stop a DVD/CD disc, press **VCR DVD** selector to change the DVD mode, then press **STOP**.

Playing a disc

This section shows you the basics on how to play a disc.

CAUTION
Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.



DVD VCD CD Basic playback

Preparations:

- When you want to view a disc, turn on the TV and select the corresponding video input connected to the DVD/VCR. This may include S-video or component video inputs which are exclusive to DVD playback.
- When you want to enjoy the sound of discs from the audio system, turn on the audio system and select the input connected to the DVD/VCR.

1 Press ON/STANDBY (I / ⏻).

ON/STANDBY

The DVD/VCR turns on.



2 Press VCR/DVD SELECT to select the DVD mode.

VCR/DVD

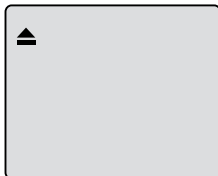
The DVD indicator will light.



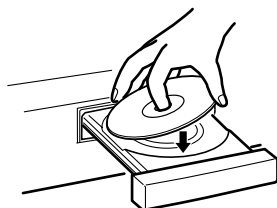
3 Press OPEN/CLOSE.

OPEN/CLOSE

The disc tray opens.



4 Place the disc on the disc tray.



With the playback side down

- There are two different disc sizes. Place the disc in the correct guide on the disc tray. If the disc is out of the guide, it may damage the disc and cause the DVD/VCR to malfunction.
- Do not place a disc which is unplayable in this DVD/VCR.

5 Press OPEN/CLOSE or PLAY on the unit.

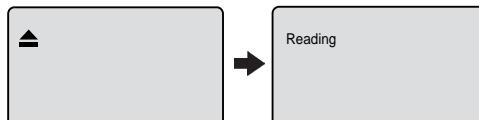
OPEN/CLOSE

The disc tray closes automatically.

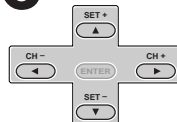


On the TV-screen, "▲" changes to "Reading" and then playback commences.

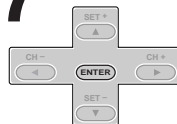
- A menu screen will appear on the TV screen, if the disc has a menu feature.



6 Press ▲/▼ or ◀/▶ to select title.



7 Press ENTER.



- Title is selected and play commences.

8 Press STOP to end playback.

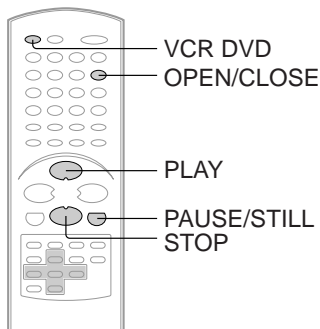


- The unit records the stopped point, depending on the disc. "■" appears on the screen. Press **PLAY** to resume playback (from the scene point).
- If you press **STOP** again or unload the disc ("■" appears on the screen.), the unit will clear the stopped point.

■ To start playback in the stop mode

Press **PLAY**.





■ To obtain a higher quality picture

Occasionally, some picture noise not usually visible during a normal broadcast may appear on the TV screen while playing a DVD video disc because the high resolution pictures on these discs include a lot of information. While the amount of noise depends on the TV you use with this DVD/VCR, you should generally reduce the sharpness adjustment on your TV when viewing DVD video discs.

■ About

The icons on the heading bar show the playable discs for the function described under that heading.

: You can use this function with DVD video discs.

: You can use this function with Video CDs.

: You can use this function with Audio CDs and CD-R/RW CDs.

■ To pause playback (still mode)

Press **PAUSE/STILL** during playback.

PAUSE/STILL



To resume normal playback, press the **PLAY** button.

- The sound is muted during still mode.

■ To stop playback

Press **STOP**.



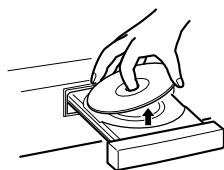
■ To remove the disc

Press **OPEN/CLOSE**.

OPEN/CLOSE



Remove the disc after the disc tray opens completely.



Be sure to press the **OPEN/CLOSE** button to close the disc tray after you remove the disc.

Notes:

- If a non-compatible disc is loaded, "Incorrect Disc", "Region Code Error" or "Parental Error" will appear on the TV screen according to the type of loaded disc. In this case, check your disc again (See pages 8 and 60).
- Some discs may take a minute or so to start playback.
- When you set a single-faced disc label downwards (ie. the wrong way up) and press the **OPEN/CLOSE** button or the **PLAY** button on the unit, "Reading" will appear on the display for 30 seconds and then "Incorrect Disc" will continue to be displayed.
- Some playback operations of DVDs may be intentionally fixed by software producers. Since this unit plays DVDs according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the DVDs.
- Do not move the DVD/VCR during playback. Doing so may damage the disc.
- Use the **OPEN/CLOSE** button to open and close the disc tray. Do not push the disc tray while it is moving. Doing so may cause the DVD/VCR to malfunction.
- Do not push up on the disc tray or put any objects other than discs on the disc tray. Doing so may cause the DVD/VCR to malfunction.
- In many instances, a menu screen will appear after playback of a movie is completed. Prolonged display of an on-screen menu may damage your television set, permanently etching that image onto its screen. To avoid this, be sure to press the **ON/STANDBY** (I / ⏻) button on your remote control once the movie is completed.
- During the DVD playback if you change the operating mode from DVD to VCR, the DVD will continue to play back the disc and stop after about 5 minutes.
- There may be a slight delay between you pressing the button and the function activating.

■ Playing a Disc while the VCR section is recording or standing by for timer recording

1) Start to record.

Follow steps 1~5 on page 34.

- If the DVD/VCR is standing by for recording, turn on the DVD/VCR.

2) Press **VCR DVD** selector to select DVD mode. The DVD indicator will light.

3) Play a disc.

Follow steps 3 ~ 5 on page 42.

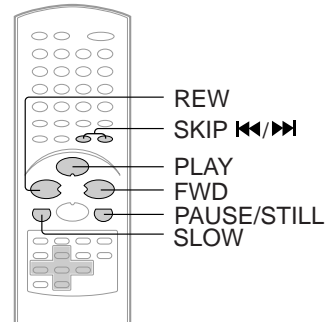
- Press **PLAY** if the DVD/VCR does not start to play a disc automatically.

4) Stop to play.

Press **STOP** to stop play back a disc.

Playing a disc (continued)

You can play discs at various speeds.



DVD VCD CD Playing in fast reverse or fast forward directions

Press REW or FWD during playback.



REW: Fast reverse playback
FWD: Fast forward playback

Each time you press the REW or FWD button, the playback speed changes.

■ To resume normal playback

Press **PLAY**.



Notes:

- The DVD/VCR mutes sound and subtitles during reverse and forward scan of DVD video discs. However, the DVD/VCR plays sound during fast forward or fast reverse play of audio CDs.
- The playback speed may differ depending on the disc.

DVD VCD Playing frame by frame

Press PAUSE/STILL during still playback.

PAUSE/STILL



Each time you press the PAUSE/STILL button, the picture advances one frame.

■ To resume normal playback

Press **PLAY**.



Note:

The sound is muted during frame by frame playback.

DVD VCD Playing in slow-motion

Press SLOW during playback.

SLOW



Each time you press the SLOW button, the slow-motion speed changes.

■ To resume normal playback

Press **PLAY**.



Note:

The sound is muted during slow-motion playback.

DVD VCD CD Locating a chapter or track

Press SKIP ◀◀ or ▶▶ repeatedly to display the chapter or track number you want.

Playback starts from the selected chapter or track.




INDEX SKIP+ To locate succeeding chapters or tracks.



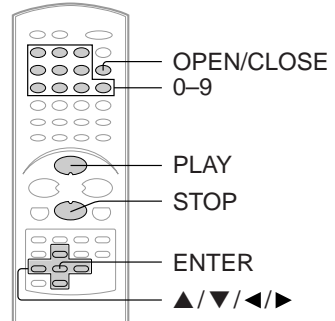
INDEX SKIP- Playback starts from the beginning of the current chapter or track. When you press twice in quick successions, playback starts from the beginning of the preceding chapter or track.

Notes:

- A "Prohibition" symbol  may appear at the upper left of the screen. This symbol means either the feature you tried is not available on the disc, or the DVD/VCR can not access the feature at this time. This does not indicate a problem with the DVD/VCR.
- The unit is capable of holding a still video image or On screen display image on your television screen indefinitely. If you leave the still video image or On screen display image displayed on your TV for an extended period of time, you risk permanent damage to your television screen. Projection televisions are very susceptible.

MP3/WMA/JPEG playback

This player can play back the MP3/WMA/JPEG-data which has been recorded on CD-R or CD-RW. To produce the MP3/WMA/JPEG-data, you need a Windows-PC with CD-ROM drive and a MP3/WMA/JPEG-encoding Software (not supplied).
The Apple-HFS-System can not be played.

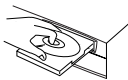


MP3/WMA Playback

1 Press OPEN/CLOSE.



The disc tray will open. Place a disc on which MP3 or WMA files have been recorded onto the tray.



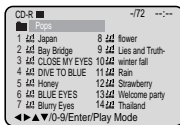
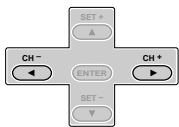
2 Press OPEN/CLOSE or PLAY.



The disc tray closes automatically. On the TV-screen, "Reading" will appear. Reading will take as much time as the number of file.

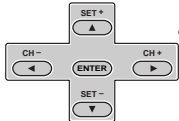


3 A file menu screen will appear on the TV screen. Press left or right to select folder.

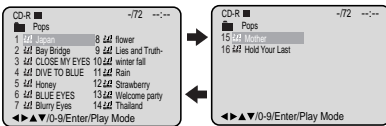
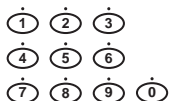


4 Press up/down or left/right or Number keys to select the desired file, then press ENTER.

The file is selected and play commences.

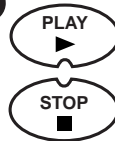


In case the folder includes more than 15 tracks, press left or right to display next file list.



When **PLAY** has been pressed after displaying the file menu, or when the disc tray has been closed after pressing **PLAY** in step 2, playback begins automatically starting from the first file. In this case, if the first file is an MP3/WMA file, only MP3/WMA files are played back in order. If the first file is a JPEG file, the first JPEG file is played back.

5 Press STOP to end playback.



- The unit records the stopped point. "■" appears on the screen. Press **PLAY** to resume playback (from the scene point).
- If you press **STOP** again or unload the disc, the unit will clear the stopped point.

MP3/WMA/JPEG CD Information

Limitations on MP3/WMA/JPEG CD playback

- MP3/WMA/JPEG CD is the disc that is standardized by ISO9660, its file name must include 3-digits extension letters, "mp3", "wma", "jpg".
- The directory and file names of the MP3/WMA/JPEG CD must be correspond to the ISO standardized files.
- This unit can read 200 files per disc. If a disc has more than 200 files, it reads up to 200 files, the remaining files will be omitted.
- The unit is able to recognize up to a maximum of 50 directories per disc.
- MP3/WMA CDs cannot be used for playback for the purpose of recording.
- If the CD has both audio tracks and MP3/WMA/JPEG files, only audio tracks are played.
- It may take more than one minute for this unit to read MP3/WMA/JPEG files depending on its structure.
- Music recorded by "Joliet Recording Specification" can be played back, the file name is displayed (within 16 letters) on the screen. Long file names will be condensed.
- The music files recorded by "Hierarchical File System" (HFS) cannot be played.
- The unit can play back baseline and progressive JPEG files.

Limitations on display

- The maximum number for display is 16 letters. Available letters for display are the following: capital or small alphabets of A through Z, numbers of 0 through 9, and _ (under score).
- Other letters than those above are replaced in hyphen.

WMA disc compatibility with this player is limited as follows:

- Sampling Frequency: within 32 -- 44 KHz
- Bit Rate: within 48kps -- 80kps.
Mono WMA files and WMA files (under 48kps) cannot be played back on this player.

Notes on MP3/WMA/JPEG files

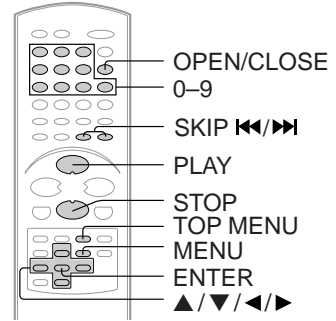
- To play back MP3/WMA/JPEG CD in the recorded order,
- Use MP3/WMA/JPEG software that records data alphabetically or numerically.
 - Name each file including two-digit or three-digit number (e.g. "01" "02" or "001" "002").
 - Refrain from making too many sub-folders.

CAUTION:

- Some MP3/WMA/JPEG CDs can not be played back depending on the recording conditions.
- The CD-R/RW that has no music data or non-MP3/WMA/JPEG files can not be played back.

MP3/WMA/JPEG playback (continued)

You can select your desired JPEG file on the file menu and picture menu. The selected JPEG file is automatically adjusted to the TV screen. (When the aspect ratio of the JPEG file is different to your TV screen, the black bar will appear at the top and bottom, or the both sides of the TV screen.)



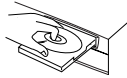
CD JPEG CD playback

1 Press OPEN/CLOSE.

OPEN/CLOSE



The disc tray will open. Place a disc on which JPEG files have been recorded onto the tray.



2 Press OPEN/CLOSE or PLAY.

OPEN/CLOSE



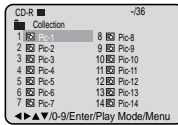
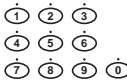
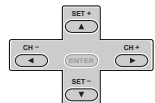
The disc tray closes automatically. On the TV-screen, "Reading" will appear. Reading will take as much time as the number of file.



3 A file menu screen will appear on the TV screen. Press ◀ or ▶ to select folder.



4 Press ▲/▼ or ◀/▶ or Number keys to select the desired file.



To display a picture menu, press MENU. (To return to a file menu, press TOP MENU.) Press ▲/▼ or ◀/▶ to select the desired file.

MENU



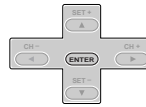
TOP MENU



- To display next list, press SKIP ▶▶▶ or ◀◀◀.
- When PLAY has been pressed after displaying the file menu, or when the disc tray has been closed after pressing PLAY in step 2, playback begins automatically starting from the first file. In this case, if the first file is a JPEG file, the first JPEG file is played back. If the first file is an MP3/WMA file, only MP3/WMA files are played back in order.

5 Press ENTER.

The selected picture appears on the TV screen.



6 Press STOP to end playback.

The file menu appears on the TV screen. If you want to watch the other file, repeat steps 4-5.



Notes:

- The picture menu is displayed when the FUJICOLOR CD or the Kodak Picture CD are played. To display the file menu press TOP MENU.
- During MP3/WMA/JPEG-Playback, you can not use SEARCH, A-B Repeat functions.
- You can use Repeat (Track or All), Random functions and Program playback for MP3/WMA/JPEG CD Playback. (See pages 52 and 53.)
- In the case of a CD containing a mixture of MP3, WMA and JPEG files, the files are played back by selecting them from the file menu.

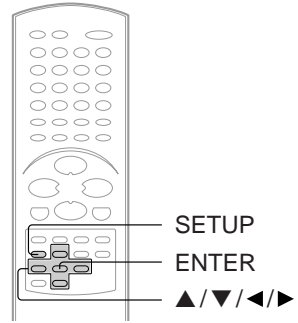
File menu information

Media type	Operation	File number	Elapsed time
CD-R	▶	1/94	02:36
Folder	■ Pops		
	1 [MP3]	8 [JPG]	flower
	2 [JPG]	9 [JPG]	Bay Bridge
	3 [JPG]	10 [JPG]	CLOSE MY EYES
	4 [JPG]	11 [JPG]	DIVE TO BLUE
	5 [JPG]	12 [JPG]	Honey
	6 [JPG]	13 [JPG]	BLUE EYES
	7 [JPG]	14 [JPG]	Blurry Eyes
	8 [JPG]		flower
	9 [JPG]		Lies and Truth
	10 [JPG]		Pic-1
	11 [JPG]		Pic-2
	12 [JPG]		Pic-3
	13 [JPG]		Pic-4
	14 [JPG]		Pic-5

: Indicates MP3 file

: Indicates WMA file

: Indicates JPEG file

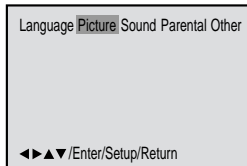
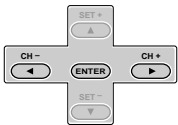


CD Setting the JPEG Interval

You can continuously play back all JPEG files automatically.
After the setting below, start playing the disc on which JPEG files have been recorded.

- 1** Press **SETUP** in the stop mode. Press **◀** or **▶** to select "Picture", then press **ENTER**.

VCR MENU
SETUP

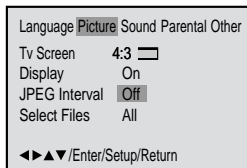
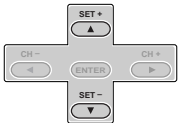


- 4** To make **SETUP** screen disappear, press **SETUP**.

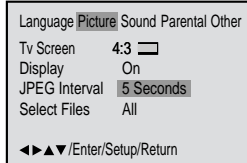
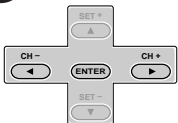
VCR MENU
SETUP



- 2** Press **▲** or **▼** to select "JPEG Interval".



- 3** Press **ENTER** or **◀/▶** to select your desired time.



Off:

Plays back one file at a time.

5 Seconds:

Plays back images in the form of a slide show at 5 second intervals.

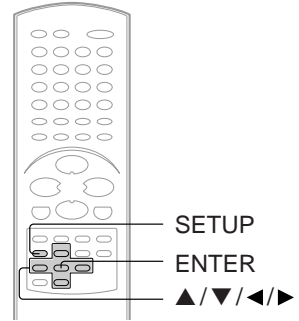
10 Seconds:

Plays back images in the form of a slide show at 10 second intervals.

15 Seconds:

Plays back images in the form of a slide show in 15 second intervals.

MP3/WMA/JPEG playback (continued)

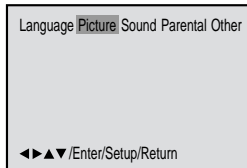
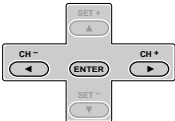


CD Setting the Select Files

When playing back a CD containing a mixture of MP3, WMA and JPEG files, only MP3/WMA or JPEG files can be displayed on the file menu.

- 1 Press **SETUP** in the stop mode.
Press **◀** or **▶** to select "Picture", then press **ENTER**.

VCR MENU
SETUP

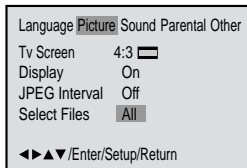
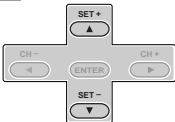


- 4 To make **SETUP** screen disappear, press **SETUP**.

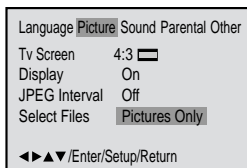
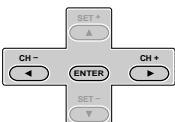
VCR MENU
SETUP



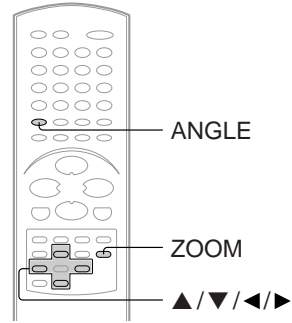
- 2 Press **▲** or **▼** to select "Select Files".



- 3 Press **ENTER** or **◀/▶** to select your desired file type.



- All:**
Displays all files.
- Music Only:**
Displays only MP3/WMA files.
- Pictures Only:**
Displays only JPEG files.



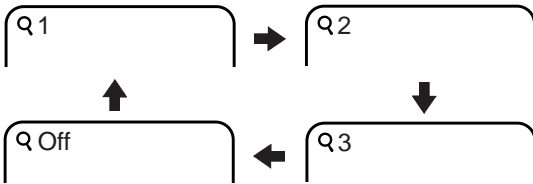
CD Zooming (JPEG CD)

This unit will allow you to zoom in on the JPEG image.

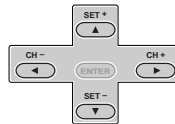
1 Press ZOOM during playback.



Enlarged JPEG images are displayed. You can make the images even larger by repeatedly pressing **ZOOM**.



2 Press ▲/▼/◀/▶ to view a different part of the frame.



You may move the frame from the centre position to UP, DOWN, LEFT or RIGHT direction.

3 In the zoom mode press ZOOM repeatedly to return to a 1:1 view (Q Off).

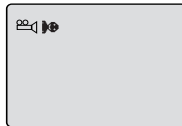


CD Changing angles (JPEG CD)

You can display JPEG images rotating at 90 degree intervals.

1 Press ANGLE during playback. Images are rotated 90 degrees to the right.

COUNTER RESET ANGLE



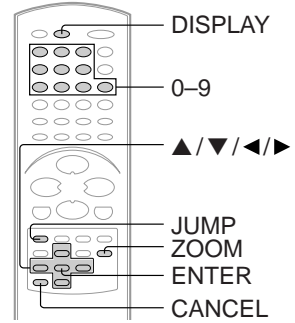
2 Press ANGLE repeatedly until the desired angle is selected. Pressing ANGLE four times returns the image to its original angle.

COUNTER RESET ANGLE



- Images are displayed at the same angle until the disc is removed.

Zooming/Locating desired scene



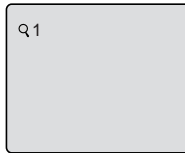
DVD VCD Zooming

This unit will allow you to zoom in on the frame image. You can then make selections by switching the position of the frame.

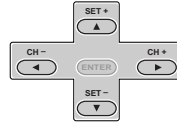
1 Press ZOOM during playback.



The centre part of the image will be zoomed in. Each press of **ZOOM** will change the ZOOM Q1 (x 1.3), Q2 (x 1.5) and Q3 (x 2.0).



2 Press ▲/▼/◀/▶ to view a different part of the frame.



You may move the frame from the centre position to UP, DOWN, LEFT or RIGHT direction.

3 In the zoom mode press ZOOM repeatedly to return to a 1:1 view (Q Off).



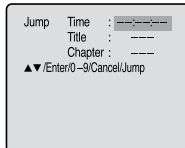
Notes:

- You can select the Pause, Slow or Search playback in the zoom mode.
- Some discs may not respond to zoom feature.

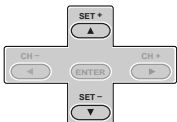
DVD VCD CD Locating desired scene

Use the title, chapter and time recorded on the disc to locate the desired point to play back. To check the title, chapter and time, press **DISPLAY**.

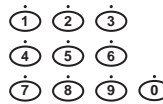
1 Press JUMP during playback or stop mode.



2 Press ▲ or ▼ to select the "Time", "Title" or "Chapter".

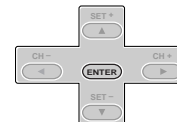


3 Press Numbered buttons (0-9) to change the number.



- If you input a wrong number, press **CANCEL**.
- Refer to the package supplied with the disc to check the numbers.

4 Press ENTER. Playback starts.



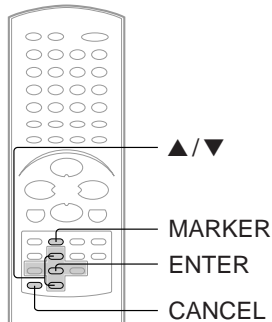
- When you change the title, playback starts from Chapter 1 of the selected title.
- Some discs may not work in the above operation.

Note:

In case of the Video-CD playback with PBC, the JUMP does not work.

Marking desired scenes

The unit stores the points that you want to watch again up to 3 points. You can resume playback from each scene.



DVD VCD Marking the Scenes

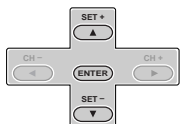
1 Press MARKER during playback.



```
Marker 1 : **: **: **
Marker 2 : **: **: **
Marker 3 : **: **: **
▲▼/Enter/Cancel/Marker
```

2 Select the blank Marker using ▲ or ▼. Then press ENTER at the desired scene.

- Repeat this procedure to set the other 2 scenes.



```
Marker 1 : 00 : 27 : 54
Marker 2 : **: **: **
Marker 3 : **: **: **
▲▼/Enter/Cancel/Marker
```

3 Press MARKER to remove this display.



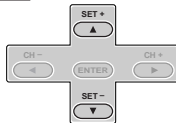
DVD VCD Returning to the Scenes

1 Press MARKER during playback or stop mode.



```
Marker 1 : 00 : 27 : 54
Marker 2 : 01 : 16 : 25
Marker 3 : 02 : 08 : 31
▲▼/Enter/Cancel/Marker
```

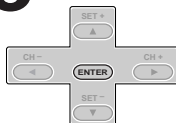
2 Press ▲ or ▼ to select the Marker 1-3.



```
Marker 1 : 00 : 27 : 54
Marker 2 : 01 : 16 : 25
Marker 3 : 02 : 08 : 31
▲▼/Enter/Cancel/Marker
```

3 Press ENTER.

Playback starts from the marked scene.



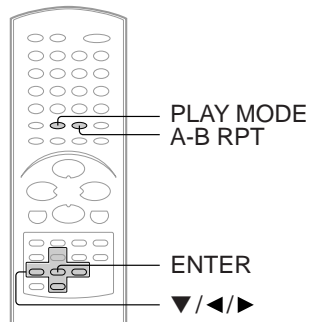
■ To cancel the Marker

Follow the above steps 1~2, then press CANCEL.

Notes:

- Some discs may not work with the marking operation.
- The marking is canceled when you open the disc tray or turn the power off.
- Some subtitles recorded around the marker may fail to appear.

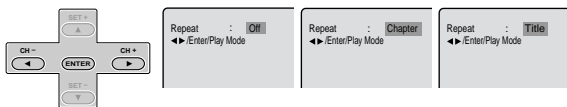
Repeat playback/A-B Repeat playback



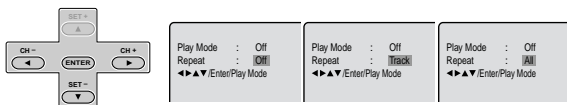
DVD VCD CD Repeat playback of Title, Chapter and Track

1 Press **PLAY MODE** during playback or stop mode.
SP/SLP
PLAY MODE

2 DVD
Press **◀/▶** or **ENTER** once or twice to select
"Chapter" or "Title".



CD/VCD
Press **▼** to select "Repeat".
Press **◀/▶** or **ENTER** once or twice to select
"Track" or "All".



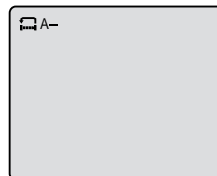
3 Press **PLAY MODE** again to make the screen disappear.
Press **PLAY** to start Repeat playback.
To resume normal playback, select Repeat "Off".

Note:
Some discs may not work with the repeat operation.

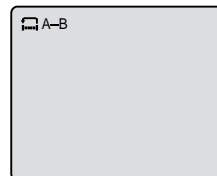
DVD VCD CD A-B Repeat playback

A-B repeat playback allows you to repeat material between two selected points.

1 Press **A-B RPT** during playback.
A-B RPT The start point is selected.



2 Press **A-B RPT** again.
A-B RPT The end point is selected. Playback starts at the point that you selected. Playback stops at the end point, returns to Point A automatically, then starts again.



■ To resume normal playback

Press **A-B RPT** again.

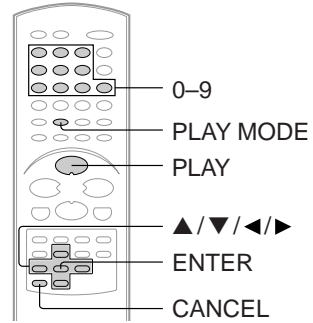
A-B RPT "Off" appears on the screen.

Notes:

- In A-B repeat mode, subtitles near point A or B may not appear.
- A-B Repeat playback is not available in multi-angle scenes.
- You may not be able to set A-B Repeat, depending on the scenes of the DVD.
- A-B repeat does not work with an interactive DVD, MP3/WMA/JPEG CD and Video CD with PBC.

Program playback/Random playback (CD)

You can arrange the order of tracks on the disc.



VCD CD Program Playback

1 Press **PLAY MODE** in the stop mode.

SP/SLP
PLAY MODE

Play Mode	: Off
Repeat	: Off
◀▶▶▶/Enter/Play Mode	

2 Press **▲** or **▼** to select Play Mode, then press **◀▶▶▶** or **ENTER** to select "Program".

Play Mode	: Program						
Repeat	: Off						
1	---	4	---	7	---	10	---
2	---	5	---	8	---	11	---
3	---	6	---	9	---	12	---
Clear		Program Playback					
◀▶▶▶/Enter/0-9/Cancel/Play Mode							

3 Press **▲/▼** or **◀▶▶▶** to select the programming position. Use Numbered buttons (0-9) to input the Track numbers.

- To program others, repeat Step 3.
- If you input a wrong number, press **CANCEL**.

Play Mode	: Program						
Repeat	: Off						
1	9--	4	---	7	---	10	---
2	3--	5	---	8	---	11	---
3	11-	6	---	9	---	12	---
Clear		Program Playback					
◀▶▶▶/Enter/0-9/Cancel/Play Mode							

4 Press **▲/▼** or **◀▶▶▶** to select "Program Playback" and press **ENTER**.

The programmes you selected will start to playback in the order.
To return to normal playback, select Play Mode: "Off".

Play Mode	: Program						
Repeat	: Off						
1	7--	4	---	7	---	10	---
2	3--	5	---	8	---	11	---
3	11-	6	---	9	---	12	---
Clear		Program Playback					
◀▶▶▶/Enter/0-9/Cancel/Play Mode							

To cancel program playback
Select "Clear" and press **ENTER**.

- The program is canceled when you open the disc tray or turn the power off.

Note:
In playing back the Video CD with PBC, you can not set Program playback.

VCD CD Random Playback

1 Press **PLAY MODE** in the stop mode.

SP/SLP
PLAY MODE

2 Press **▲/▼** to select Play Mode, then press **◀▶▶▶** to select "Random".

Play Mode	: Random
Repeat	: Off
◀▶▶▶/Enter/Play Mode	

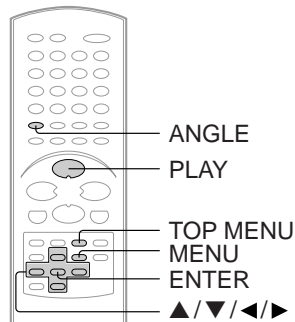
3 Press **PLAY**.

The Random Playback will start.

Note:
In playing back the Video CD with PBC, you can not set Random playback.

Advanced playback (DVD)

Changing angles/Title selection/DVD menu





DVD Changing Angles

When playing back a disc recorded with multi-angle facility, you can change the angle that you are viewing the scene from.


1 Press ANGLE during playback.
The current angle will appear.

COUNTER RESET ANGLE

2 Press ANGLE repeatedly until the desired angle is selected.

COUNTER RESET ANGLE




Note:
Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

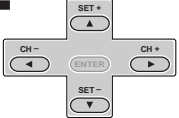
DVD Title Selection

Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

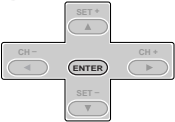

1 Press TOP MENU during playback.
Title menu appears on the screen.



2 Press ▲/▼ or ◀/▶ to select the desired title.



3 Press ENTER or PLAY.
The playback of the selected title will start.

Note:
Depending on the DVD, you may not be able to select the title. Depending on the DVD, a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc.

DVD Menu

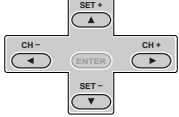
Some DVDs allow you to select the disc contents using the menu. When you play back these DVDs, you can select the subtitle language and sound-track language, etc. using the menu.

1 Press MENU during playback.
The DVD menu appears on the screen.

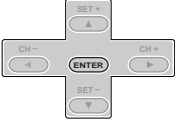
MENU

- Press **MENU** again to resume playback at the scene when you pressed **MENU**.

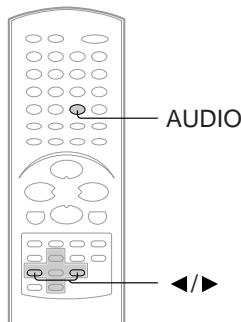
2 Press ▲/▼ or ◀/▶ to select the desired item.



3 Press ENTER.
The menu continues to another screen. Repeat steps 2 and 3 to set the item completely.



Changing soundtrack language/ Setting surround sound




DVD VCD Changing soundtrack language

You can select the language when you play a multilingual disc.

1 Press AUDIO during playback.


AUDIO SELECT AUDIO The current soundtrack language will appear.



2/8 Fra Dolby Digital
Spatializer Off

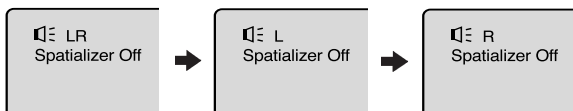
2 Press AUDIO repeatedly until the desired language is selected.

AUDIO SELECT AUDIO The on-screen display will disappear after a few seconds.



1/8 Eng Dolby Digital
Spatializer Off

In case of VIDEO CD playback
Audio type changes as follows each time you press **AUDIO**.




- Notes:**
- If the desired language is not heard after pressing the button several times, the language is not recorded on the disc.
 - Changing soundtrack language is cancelled when you open the disc tray. The initial default language or available language will be heard if the disc is played back again.

DVD VCD CD Setting surround sound

This DVD/VCR equipped with a "SPATIALIZER VIRTUAL SURROUND". It can produce the effect of being in a cinema or a concert hall.

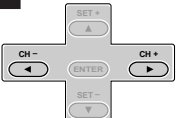
1 During disc playback press AUDIO.

AUDIO SELECT AUDIO



1/8 Eng Dolby Digital
Spatializer Off

2 Press ◀ or ▶ to select "On".



1/8 Eng Dolby Digital
Spatializer On

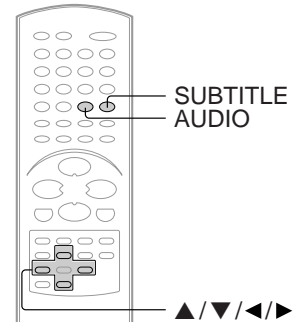
To cancel Surround mode:
Follow the left steps 1~2, then press ◀ or ▶ to select the "Off" position.

Note:
The "SPATIALIZER VIRTUAL SURROUND" is effective only for the sound of disc.

Spatializer® 3-Dimensional Sound Processing provided by Desper Products, Inc.
Certain audio features of this product manufactured under a license from Desper Products, Inc., Spatializer® and the circle-in-square device are trademarks owned by Desper Products, Inc.

Function setup (DVD)

Setting subtitles/Karaoke playback



DVD Turning the subtitles on and off

When playing back a disc recorded with subtitles, you can turn the subtitles on or off.

Press **SUBTITLE** during playback until "Off" appears.



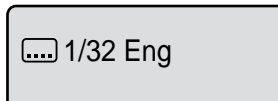
Note:

Depending on the DVD, you may not be able to turn the subtitles on even if they are recorded on it. Depending on the DVD, you may not be able to turn the subtitles off.

DVD Changing the subtitle language

You can select the language when playing back a disc recorded with multi-lingual subtitles.

1 Press **SUBTITLE** repeatedly during playback until your desired language appears.



2 The on-screen display will disappear after a few seconds.

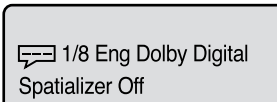
Notes:

- Changing subtitle language is cancelled when you open the disc tray.
- Depending on the DVD, you may not be able to change the subtitles even if multilingual subtitles are recorded on it. While playing the DVD, the subtitle may change when: -you open or close the disc tray -you change the title.
- In some cases, the subtitle language is not changed to the selected one immediately.

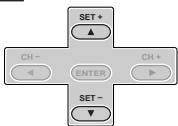
DVD Karaoke playback

You can turn the vocal on or off recorded on the DVD KARAOKE.

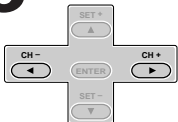
1 During DVD KARAOKE disc playback, press **AUDIO SELECT AUDIO**.



2 Press **▲** or **▼** until the **KARAOKE** symbol (🎤) appears.



3 Press **◀** or **▶** to select "On" or "Off".



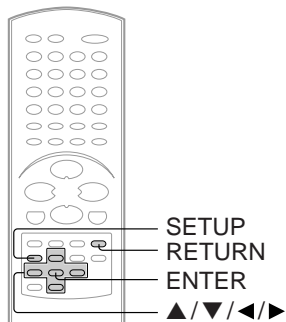
On : The primary vocal is output when it is recorded on the disc.
Off : The primary vocal is not output.

Notes:

- The vocal output feature is used during playback of Dolby Digital (multi-channel) recorded DVD KARAOKE discs. This feature allows you to turn off vocal audio tracks, or restore them for background accompaniment.
- When playing Karaoke, connect appropriate audio equipment such as an amplifier to the DVD/VCR.

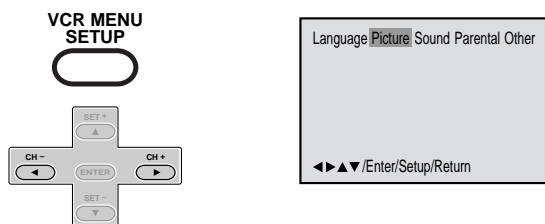
Setting the aspect ratio of TV screen

You can select the aspect ratio for your TV.
The following pages describe the setup/operation in DVD mode.

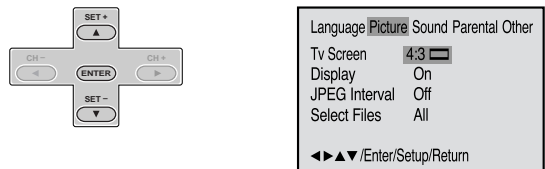


DVD Setting the aspect ratio of TV screen

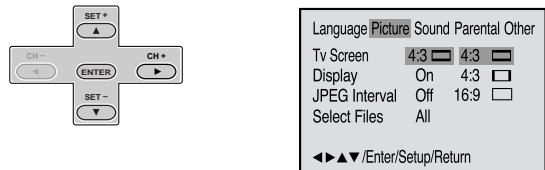
1 Press **SETUP** in the stop mode or **No Disc**. Press **◀** or **▶** to select "Picture".



2 Press **▼** or **ENTER**, then press **▲** or **▼** to select "Tv Screen".



3 Press **▶** or **ENTER**. Press **▲** or **▼** to select your desired screen type, then press **ENTER**.



You have the following screen sizes to choose from:

4:3 **Letter box:**

Select this mode when connecting to a conventional TV. When playing back a wide screen-DVD disc, it displays the wide picture with black bands at the top and bottom of screen.

4:3 **Pan scan:**

It displays the wide picture on the whole screen with left and right edges automatically cut off.

16:9 **Wide:**

Select this mode when connecting to a wide-screen TV. A wide screen picture is displayed full size.

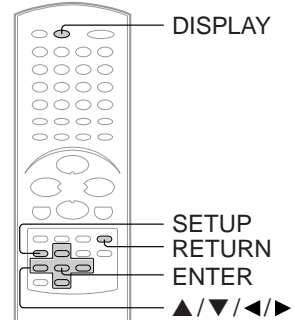
4 To make **SETUP** screen disappear, press **SETUP** or **RETURN** while the **SETUP** screen is being displayed.



Note:

If the DVD disc is not formatted in the pan & scan style, it displays 4:3 style.

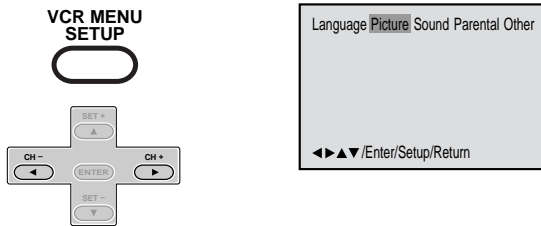
Setting on screen display/Status display of disc



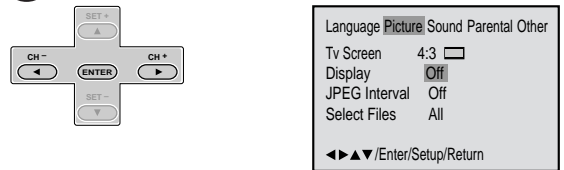
DVD Setting on screen display

On screen display can be switched on or off when you press the buttons.

1 Press **SETUP** in the stop mode or No Disc. Press **◀** or **▶** to select "Picture".

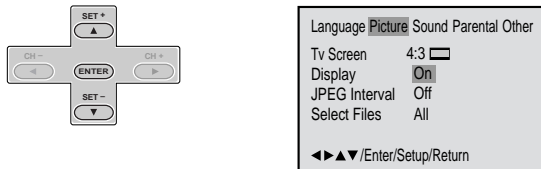


3 Press **◀/▶** or **ENTER** to select "On" or "Off".



- On:** On screen displays appear when you press the buttons (factory setting).
- Off:** On screen displays do not appear when you press any buttons.

2 Press **▼** or **ENTER**, then press **▲** or **▼** to select "Display".



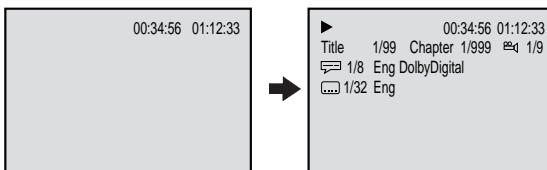
4 To make **SETUP** screen disappear, press **SETUP** or **RETURN** while the **SETUP** screen is being displayed.



DVD VCD CD Status display of disc

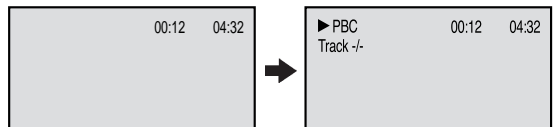
Each press of **DISPLAY**, the status display of the disc will appear on the screen and change as follows.

DVD

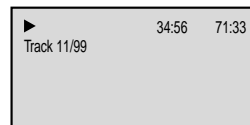


To make status display disappear, press **DISPLAY** again.

Video CD



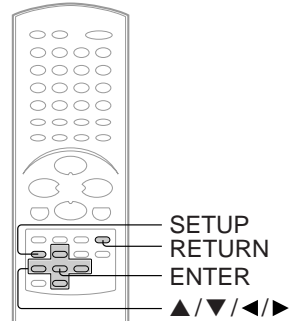
Audio CD



When you playback the CD disc, the status display will appear on the screen and continue displaying.

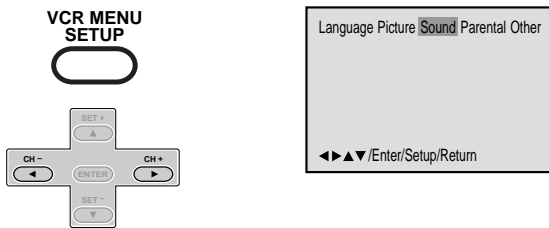
Dynamic Range Control

DRC (Dynamic Range Control) enables you to control the dynamic range so as to achieve a suitable sound for your equipment.

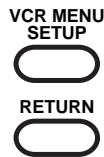


DVD Dynamic Range Control

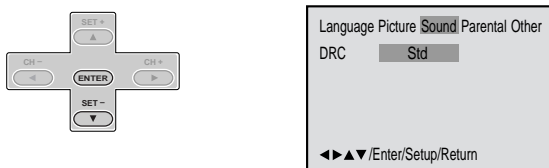
1 Press **SETUP** in the stop mode. Press **◀** or **▶** to select "Sound".



4 To make **SETUP** screen disappear, press **SETUP** or **RETURN** while the **SETUP** screen is being displayed.



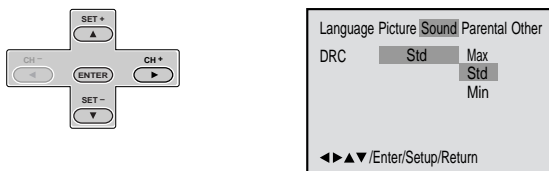
2 Press **▼** or **ENTER** to select "DRC".



Notes:

- This function works only during playback of Dolby Digital recorded discs.
- The level of Dynamic Range Reduction may differ depending on DVD video disc.

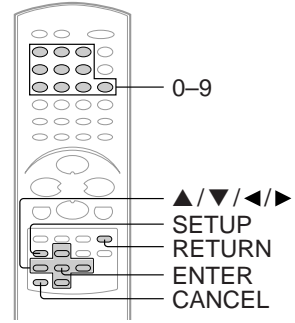
3 Press **▶** or **ENTER**, then press **▲** or **▼** to select desired setting.



- Max:** Full dynamic range is increased.
- Std:** Full dynamic range is maintained.
- Min:** Dynamic range is reduced.

Parental control setting

Some discs are specified not suitable for children. Such discs can be limited not to play back with the unit.



DVD Parental control setting

1 Press **SETUP** in the stop mode or No Disc. Press **◀** or **▶** to select "Parental". Then press **▼** or **ENTER**.

VCR MENU
SETUP

Language Picture Sound **Parental** Other

Password

Parental Off

0-9/Cancel
◀▶▲▼/Enter/Setup/Return

2 Press **▲** or **▼** to select "Parental", then press **◀** or **▶** until the level you require appears.

Language Picture Sound **Parental** Other

Password

Parental 1

◀▶▲▼/Enter/Setup/Return

- **Level Off:** The parental control setting does not function.
- **Level 8:** All DVD software can be played back.
- **Level 1:** DVD software for adults cannot be played back.
- Select from the level 1 to level 8. The limitation will be more severe as the level number is lower.

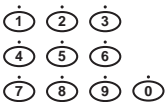
3 Press **▲** or **▼** to select "Password". Press number buttons (0-9) to input a 4-digit password.

Language Picture Sound **Parental** Other

Password

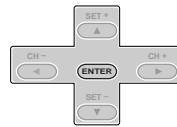
Parental 1

0-9/Cancel
◀▶▲▼/Enter/Setup/Return



- Be sure to remember this number!
- If you input a wrong number, press **CANCEL**.

4 Press **ENTER** to store the password.



Note: Now the rating is locked and the setting cannot be changed unless you enter the correct password.

Language Picture Sound **Parental** Other

Password

Parental 1

0-9/Cancel
◀▶▲▼/Enter/Setup/Return

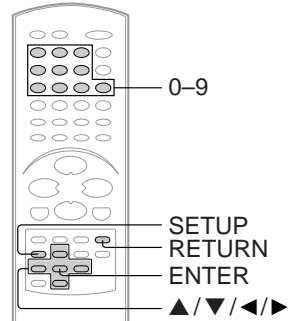
5 Press **SETUP** or **RETURN** to remove the parental control screen.



Notes:

- If each setup (pages 57-66) has been completed, the unit can always be worked under the same conditions (especially with DVD discs). Each setup will be retained in the memory if you turn the power off.
- Depending on the discs, the unit cannot limit playback.
- Some discs may not be encoded with specific rating level information though its disc jacket says "adult." For those discs, the age restriction will not work.

To change the parental level



DVD To change the parental level

1 Press **SETUP** in the stop mode or No Disc. Press **◀** or **▶** to select "Parental". Then press **▼** or **ENTER**.

VCR MENU SETUP

Language	Picture	Sound	Parental	Other
Password	-----			
Parental	1			

0-9/Cancel
◀▶▲▼/Enter/Setup/Return

2 Press number buttons (0-9) to enter the password you have stored.

Language	Picture	Sound	Parental	Other
Password	1234			
Parental	1			

0-9/Cancel
◀▶▲▼/Enter/Setup/Return

3 Press **ENTER**.
The rating is now unlocked.

Language	Picture	Sound	Parental	Other
Password	-----			
Parental	1			

0-9/Cancel
◀▶▲▼/Enter/Setup/Return

4 Press **▲** or **▼** to select "Parental", then press **◀** or **▶** to change the parental level.

Language	Picture	Sound	Parental	Other
Password	-----			
Parental	5			

◀▶▲▼/Enter/Setup/Return

5 Press **▲** or **▼** to select "Password", then press number buttons (0-9) to enter the password.

Note: You can change the password if you want.

Language	Picture	Sound	Parental	Other
Password	9876			
Parental	5			

0-9/Cancel
◀▶▲▼/Enter/Setup/Return

6 Press **ENTER**.
Now the parental level is changed and locked.

Language	Picture	Sound	Parental	Other
Password	-----			
Parental	5			

0-9/Cancel
◀▶▲▼/Enter/Setup/Return

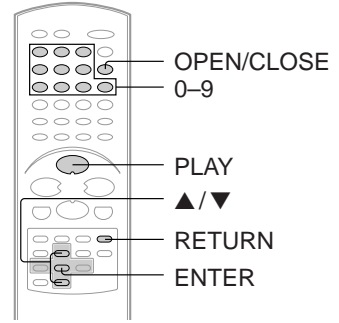
7 Press **SETUP** or **RETURN** to remove the parental control screen.



Note:
Do not forget the password. If you forget the password, contact the dealer that you purchased the unit from.

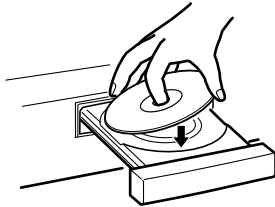
Temporary disabling of rating level by DVD disc

Depending on the DVD disc, the disc may try to temporarily cancel the rating level that you have set. It is up to you to decide whether to cancel the rating level or not.

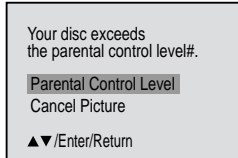


DVD Temporary disabling of rating level by DVD disc

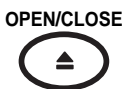
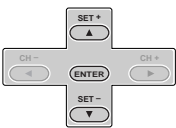
1 Load a DVD disc and press PLAY or OPEN/CLOSE on the unit (see page 42).



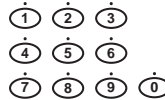
2 If the DVD disc has been designed to temporarily cancel the Rating level, the screen which follows the "Reading" screen will change, depending on which disc is played. If you select "YES" with the ENTER key, "Your disc exceeds the parental control level#." screen will then appear.



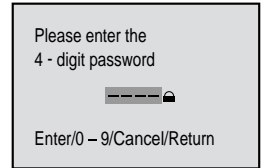
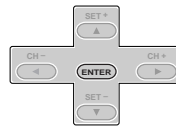
3 If you wish to cancel the set rating level temporarily, select "Parental Control Level" with ▲ or ▼, then press ENTER. If the 4-digit password at step 2 on page 61 has been set, the password entering screen will appear as shown in step 4. Alternatively, if the password has not been set, playback will commence. If you don't know (or have forgotten) the password, select "Cancel Picture". The setting screen will disappear. Press OPEN/CLOSE to remove the disc.



4 Enter the password with number buttons (0-9). Then press ENTER.



If you interrupt the entering, press RETURN.



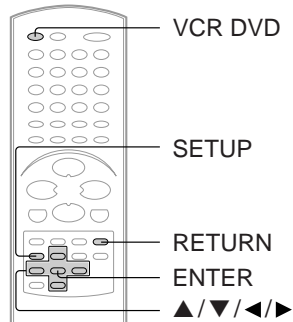
5 Playback will commence if the entered password was correct.

Note:

This temporary cancellation of rating level will be kept until the disc is ejected. When the disc is ejected, the original rating level will be set again automatically.

Setting setup language

The setup language can be selected.



DVD VCD CD Setting setup language

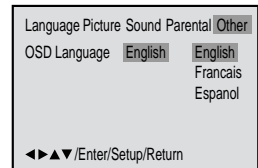
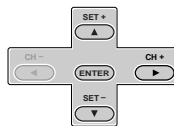
1 Press VCR DVD selector to select the DVD mode.



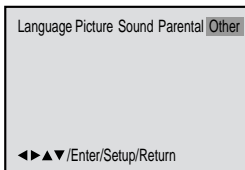
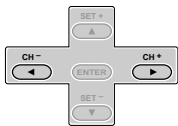
"Reading" changes to "No Disc".
(If DVD disc has already loaded, the playback will start automatically.)



4 Press ▶ or ENTER and then press ▲ or ▼ to select desired language (e.g. English), then press ENTER.



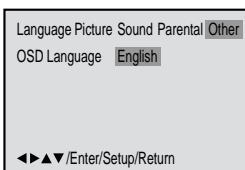
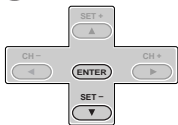
2 Press SETUP in the stop mode.
Press ◀ or ▶ to select "Other".



5 To make SETUP screen disappear, press SETUP or RETURN while the SETUP screen is being displayed.



3 Press ▼ or ENTER to select "OSD Language".

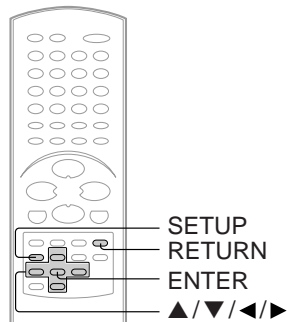


If the unit does not operate properly: Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.

Function setup (DVD)

Setting menu language

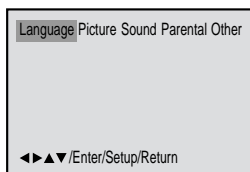
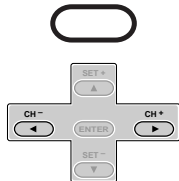
You can select the language of the disc menu messages of DVDs.



DVD Setting menu language

1 Press **SETUP** in the stop mode or No Disc. Press **◀** or **▶** to select "Language".

VCR MENU
SETUP

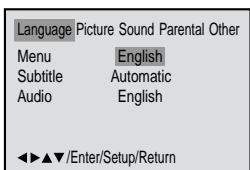
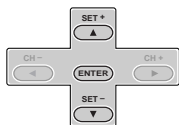


4 To make **SETUP** screen disappear, press **SETUP** or **RETURN** while the **SETUP** screen is being displayed.

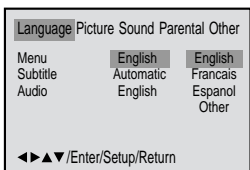
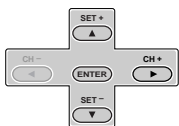
VCR MENU
SETUP



2 Press **▼** or **ENTER**, then press **▲** or **▼** to select "Menu".



3 Press **▶** or **ENTER**. Press **▲** or **▼** to select your desired language, then press **ENTER**.



English, Francais, Espanol:

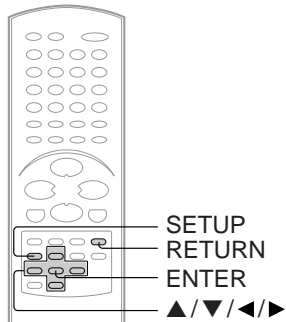
The selected language is the first-priority Menu language.

Other:

Other language can be selected (see the Language code list on page 67).

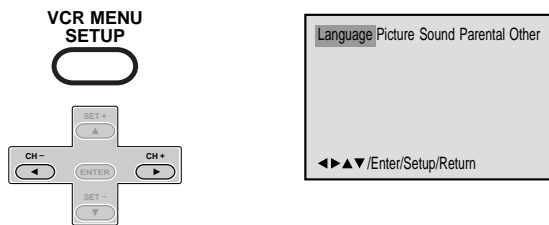
Changing subtitle language

The same subtitle language can always be selected even if you replace the disc or turn the power off.

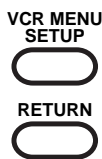


DVD Changing subtitle language

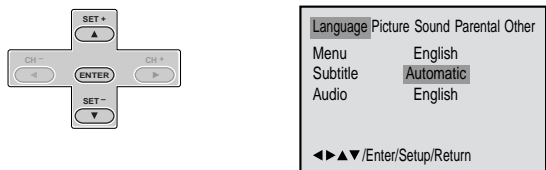
1 Press **SETUP** in the stop mode or No Disc. Press **◀** or **▶** to select "Language".



4 To make **SETUP** screen disappear, press **SETUP** or **RETURN** while the **SETUP** screen is being displayed.



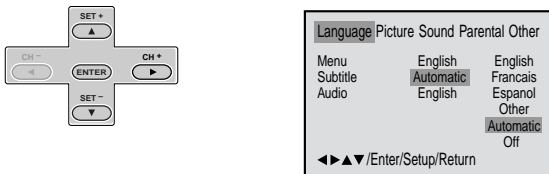
2 Press **▼** or **ENTER**, then press **▲** or **▼** to select "Subtitle".



Note:

If the selected language is not recorded on the disc, the first-priority language is selected.

3 Press **▶** or **ENTER**. Press **▲** or **▼** to select your desired language, then press **ENTER**.



English, Francais, Espanol:

The subtitle is displayed with the selected language if it is recorded on the disc.

Other:

If you want to select another language, enter the language code (see the language code list on page 67).

Automatic:

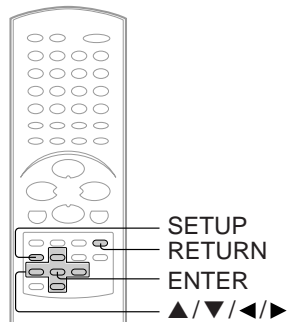
- The unit will automatically select the same language in the AUDIO setting.
- When the unit selects the same language as the AUDIO, the subtitles will not appear during playback.
- When you do not use the same language as the AUDIO, the subtitles will appear during playback.

Off:

Subtitles do not appear.

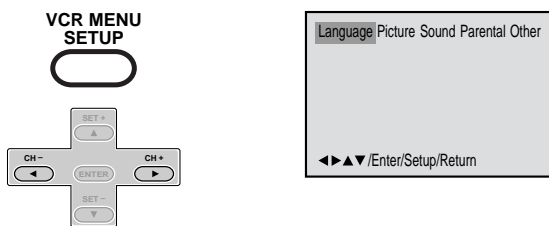
Setting audio soundtrack language

The same audio soundtrack language can always be selected by your unit even if you replace the disc or turn the power off.



DVD Setting audio soundtrack language

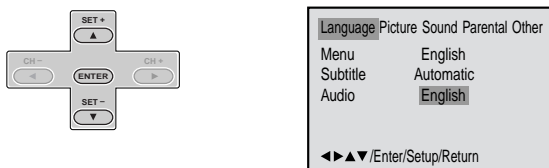
1 Press **SETUP** in the stop mode or No Disc. Press **◀** or **▶** to select "Language".



4 To make **SETUP** screen disappear, press **SETUP** or **RETURN** while the **SETUP** screen is being displayed.



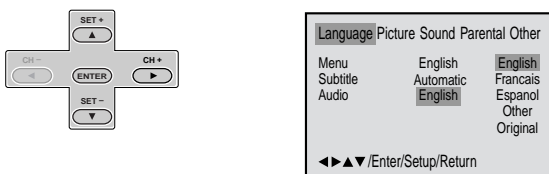
2 Press **▼** or **ENTER**, then press **▲** or **▼** to select "Audio".



Note:

If the selected language is not recorded on the disc, the original language will be heard.

3 Press **▶** or **ENTER**. Press **▲** or **▼** to select your desired Audio Language, then press **ENTER**.



English, Francais, Espanol:

The language you have selected will play if it is recorded on the disc.

Other:

If you want to select another language, enter the language code (see the Language code list on page 67).

Original:

The unit will select the first priority language of each disc.

Language code list


Enter the appropriate code number for the initial settings "Menu", "Subtitle" and/or "Audio" (see pages 64-66).

Language code list

Language Name Code	Language Name Code	Language Name Code	Language Name Code
Abkhazian 1112	Fiji 1620	Lingala 2224	Singhalese 2919
Afar 1111	Finnish 1619	Lithuanian 2230	Slovak 2921
Afrikaans 1116	French 1628	Macedonian 2321	Slovenian 2922
Albanian 2927	Frisian 1635	Malagasy 2317	Somali 2925
Amharic 1123	Galician 1722	Malay 2329	Spanish 1529
Arabic 1128	Georgian 2111	Malayalam 2322	Sundanese 2931
Armenian 1835	German 1415	Maltese 2330	Swahili 2933
Assamese 1129	Greek 1522	Maori 2319	Swedish 2932
Aymara 1135	Greenlandic 2122	Marathi 2328	Tagalog 3022
Azerbaijani 1136	Guarani 1724	Moldavian 2325	Tajik 3017
Bashkir 1211	Gujarati 1731	Mongolian 2324	Tamil 3011
Basque 1531	Hausa 1811	Nauru 2411	Tatar 3030
Bengali; Bangla 1224	Hebrew 1933	Nepali 2415	Telugu 3015
Bhutani 1436	Hindi 1819	Norwegian 2425	Thai 3018
Bihari 1218	Hungarian 1831	Oriya 2528	Tibetan 1225
Breton 1228	Icelandic 1929	Panjabi 2611	Tigrinya 3019
Bulgarian 1217	Indonesian 1924	Pashto, Pushto 2629	Tonga 3025
Burmese 2335	Interlingua 1911	Persian 1611	Turkish 3028
Byelorussian 1215	Irish 1711	Polish 2622	Turkmen 3021
Cambodian 2123	Italian 1930	Portuguese 2630	Twi 3033
Catalan 1311	Japanese 2011	Quechua 2731	Ukrainian 3121
Chinese 3618	Javanese 2033	Rhaeto-Romance 2823	Urdu 3128
Corsican 1325	Kannada 2124	Romanian 2825	Uzbek 3136
Croatian 1828	Kashmiri 2129	Russian 2831	Vietnamese 3219
Czech 1329	Kazakh 2121	Samoan 2923	Volapük 3225
Danish 1411	Kirghiz 2135	Sanskrit 2911	Welsh 1335
Dutch 2422	Korean 2125	Scots Gaelic 1714	Wolof 3325
English 1524	Kurdish 2131	Serbian 2928	Xhosa 3418
Esperanto 1525	Laothian 2225	Serbo-Croatian 2918	Yiddish 2019
Estonian 1530	Latin 2211	Shona 2924	Yoruba 3525
Faroese 1625	Latvian, Lettish 2232	Sindhi 2914	Zulu 3631

Before calling service personnel

Check the following guide for the possible cause of a problem before contacting service.

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
DVD/VCR		
DVD/VCR does not operate.	<ul style="list-style-type: none"> • Make sure the power cord is plugged in. • Try another AC outlet. • Power is off, check fuse or circuit breaker. • Unplug unit, then plug it back in. • Select the DVD or VCR mode before operating. 	5 – 5 30,42
No picture.	<ul style="list-style-type: none"> • Antenna connection is not correct or antenna cable is disconnected. • The video channel is not in the correct position or the TV is not set to the video channel 3 or 4. • Check the unit is connected correctly. • The video input selector of the TV is not set to VIDEO. Set to VIDEO (or equivalent). • Channel is set to the external mode. 	14–17 22 14–19 – –
No sound.	<ul style="list-style-type: none"> • Check the unit is connected correctly. • Check the input selector of the amplifier is set properly. • The unit is in the Special playback mode. 	14–19 – 31,44
The remote control does not function.	<ul style="list-style-type: none"> • Aim at the remote control at the remote sensor. • Operate within Approx. 7 Meters or reduce the light in the room. • Clear the path of the beam. • The batteries are weak. Replace the batteries. • Check the batteries are inserted correctly. 	13
No CATV reception.	<ul style="list-style-type: none"> • Check all CATV connections. • Station or CATV system problems, try another station. 	16,17
VCR		
TV recording does not work.	<ul style="list-style-type: none"> • The erase prevention tab of the video cassette is broken off. • The unit is in the external input mode. 	29,34
Timer recording does not work.	<ul style="list-style-type: none"> • The time is not set correctly. • The recording start/end time is not set correctly. • The TIMER has not been pressed (E is not lit). 	24 37 37
Noise bars on screen.	<ul style="list-style-type: none"> • Tracking adjustment beyond range of automatic tracking circuit. Try Manual tracking adjustment. • Video heads are dirty. • The tape is worn or damaged. 	31 31 –
DVD		
Display is not shown in your language.	<ul style="list-style-type: none"> • Select proper language in the menu options. 	63
Playback doesn't start.	<ul style="list-style-type: none"> • No disc is inserted. • The disc may be dirty. Clean up the disc. • The unit cannot play DVD-ROMs, etc. 	42 6 8
Stopping playback, slow-motion play, repeat play, or memory play, etc. cannot be performed.	<ul style="list-style-type: none"> • Some discs may not do some of the functions. 	–
No picture	<ul style="list-style-type: none"> • The S-VIDEO/COMPONENT selector is not set correctly 	19
No 4:3 (16:9) picture.	<ul style="list-style-type: none"> • The setup does not match your TV. 	57
No on-screen display.	<ul style="list-style-type: none"> • Select Display "On". 	58
No surround sound.	<ul style="list-style-type: none"> • The setup does not match your stereo system. 	20
The unit or remote operation key is not functioning.	<ul style="list-style-type: none"> • Turn off the unit and unplug the AC power cord for several minutes, then replug it. 	–
Playback does not start when the title is selected.	<ul style="list-style-type: none"> • Check the Parental setup. 	60,61
Audio soundtrack and/or subtitle language is not changed when you play back a DVD.	<ul style="list-style-type: none"> • Multilingual language is not recorded on the DVD disc. 	65,66
No subtitle.	<ul style="list-style-type: none"> • Some discs have no subtitles. • Subtitles are cleared. Press SUBTITLE. 	56
Angle cannot be changed.	<ul style="list-style-type: none"> • Multi-angles are not recorded on the DVD disc. 	54
 appears on the screen.	<ul style="list-style-type: none"> • The function is prohibited with the unit or the disc. 	44

General

Power supply	AC 120 V 60 Hz
Power consumption	Operation: 18 W, Stand by: 2 W
Weight	7.9 lbs (3.6 kg)
Dimensions	Width: 16-15/16 inches (430 mm) Height: 3-7/8 inches (99 mm) Depth: 9-7/8 inches (251.5 mm)
Tuner	181 channel freq. synthesized VHF 2-13 UHF 14-69 CATV 125 Channels
Antenna input/output	UHF/VHF In/Out: 75 Ω coaxial
RF channel output	Channel 3 or 4, Switchable
Color system	NTSC
Video head	4 Rotary heads
Audio track	Hi-Fi sound - 2 Tracks / MONO sound - 1 Track
Hi-Fi frequency response	20 Hz to 20,000 Hz
Hi-Fi dynamic range	More than 90 dB
F.FWD/REW time at 25°C (77°F)	Approx. 1 minute and 48 seconds (with T-120 Cassette Tape)
Applicable disc	DVD (12 cm, 8 cm), CD (12 cm, 8 cm)
Frequency range	DVD: 4 Hz-22 kHz, CD: 4 Hz-20 kHz
S/N ratio	90dB (DVD)
Harmonic distortion	0.02% (DVD)
Wow and flutter	Less than 0.01% Wrms
Operating conditions	Temperature: 5°C-40°C (41°F-104°F), Operating status: Horizontal

Input/Output

DVD/VCR	
Video input	1.0 V (p-p), 75 Ω, negative sync., pin jack x 2
Video output	1.0 V (p-p), 75 Ω, negative sync., pin jack x 1
Audio input	-8 dBm, 50 kΩ, negative sync., pin jack (L/R) x 2
Audio output	-8 dBm, 1 kΩ, negative sync., pin jack (L/R) x 1
DVD	
S-video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., Mini DIN 4-pin x 1 (C) 0.286 V (p-p), 75 Ω
Component video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., pin jack x 1 (P _B)/(P _R) 0.7 V (p-p), 75 Ω, pin jack x 2
Audio output (BITSTREAM/PCM COAXIAL)	0.5 V (p-p), 75 Ω, pin jack x 1
Audio output (BITSTREAM/PCM OPTICAL)	Optical connector x 1
Audio output (ANALOG)	-12 dB, 1 kΩ, pin jacks (L, R) x 1

Supplied accessories

Audio/video cable	1
Remote control (SE-R0109)	1
Batteries (AAA)	2
75 ohm coaxial cable	1

- Designs and specifications are subject to change without notice.

LIMITED WARRANTY DVD VIDEO PLAYER

Toshiba America Consumer Products, Inc. ("TACP"), Toshiba Hawaii ("THI") and Toshiba Canada Limited ("TCL") make the following limited warranties. These limited warranties extend to original purchaser or any person receiving this set as a gift from the original purchaser and to no other purchaser or transferee.

Limited Ninety (90) Day Warranty

TACP/THI warrant this product against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. During this period, TACP/THI will repair or replace a defective product or part, at their option, with a new or refurbished product or part without charge to you. You must deliver the entire product to a TACP/THI Authorized Service Station. You are responsible for all transportation and insurance charges for the unit to and from the Authorized Service Station. If you live in the U.S.A. you may, at your option, return your DVD Unit to:

Toshiba America Consumer Products Inc.
Returns Center
1420C Toshiba Dr.
Lebanon, TN 37087

Upon receipt we will, at our option, exchange the DVD Unit with a new or refurbished unit. **Canadian consumers are requested to contact TCL. In Hawaii consumers are requested to contact THI.**

Limited One (1) Year Warranty

TACP/THI further warrant the parts in this product against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. During this period, TACP/THI will repair or replace a defective product or part, at their option, with a new or refurbished product or part without charge to you, except that if a defective part is replaced after ninety (90) days from the date of the original retail purchase you pay labor charges involved in the replacement. You must also deliver the entire product to a TACP/THI Authorized Service Station. You are responsible for all transportation and insurance charges for the unit to and from the Authorized Service Station. If you live in the U.S.A. you may, at your option, return your DVD Unit to:

Toshiba America Consumer Products Inc.
Returns Center
1420C Toshiba Dr.
Lebanon, TN 37087

Upon receipt we will, at our option, exchange the DVD Unit with a new or refurbished unit. **Canadian Consumers are requested to contact TCL. In Hawaii consumers are requested to contact THI.**

Rental Units

The warranty for rental units begin with the first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

Commercial Units

Products sold and used for commercial use have a limited ninety (90) day warranty for all parts and labor.

Owner's Manual

You should read the owner's manual thoroughly before operating this product. You should complete and mail the enclosed Demographic card within ten (10) days after you, or the person who has given you this product as a gift, purchased this product. This is one way to enable TACP to provide you with better customer service and improved products. Failure to return the card will not affect your rights under this warranty.

Your Responsibility

The above warranties are subject to the following conditions:

- (1) You must retain your bill of sale or provide other proof of purchase.
- (2) You must notify a TACP/THI/TCL /Authorized Service Station within thirty (30) days after you discover a defective product or part.
- (3) All warranty servicing of this product must be made by a TACP/THI/TCL Authorized Service Station.
- (4) U.S.A. warranties are effective only if the product is purchased and operated in the Continental U.S.A. or Puerto Rico.
- (5) Labor service charges for set installation. Set up, adjustment of customer controls and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
- (6) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any product or parts which have been lost or discarded by you or to damage to products or parts caused by misuse, accident, damage caused by Acts of God, such as lighting or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by us; or to units which have been altered or modified without authorization of TACP/THI/TCL or to damage to products or part thereof which have had the serial number removed, altered, defaced or rendered illegible.
- (7) Should you elect to return your DVD Unit to TACP after the ninety (90) days and within one (1) year, or after the warranty period has expired: Call (800)-631-3811 to receive information concerning an exchange price. Payment must be enclosed with product in the form of a certified check or money order including reason for return.
- (8) Physically damaged DVD Units are not acceptable for repair or exchange whether in or out of warranty and will be returned as received.

(Continued)

LIMITED WARRANTY DVD VIDEO PLAYER (continued)

How to Obtain Warranty Service

- (1) Refer to the troubleshooting guide in your owner's manual. This check list may solve your problem.
- (2) In the U.S.A., only call the TACP toll free number 800-631-3811, or if in Hawaii or Canada see listing below within (30) days after you find a defective product or part.
- (3) Arrange for the delivery of the product to the TACP/THI/TCL Authorized Service Station or TACP Return Center. Products shipped to the Service Station must be insured and safely and securely packed, preferably in the original shipping carton, and a letter explaining the defect and also a copy of the bill of sale or other proof of purchase must be enclosed.

In the Continental United States contact:



In Hawaii contact:

Toshiba Hawaii Inc.
327 Kamakee Street
Honolulu, HA 96814
(808)-521-5377

In Canada contact:

Consumer Electronics Group
191 McNabb Street
Markham, Ontario L3R 8H2
(905)-470-5400

Consumer Electronics Group
22171 Fraserwood Way
Richmond, B.C. V6W 1J5
(604)-303-2500

Consumer Electronics Group
18050 Trans canada
Kirkland, Quebec H9J 4A1
(514)-390-7766

All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall TACP/THI be liable for consequential or incidental damages.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of TACP/THI arising under the warranty or under any statute, or law of the United States or any state thereof, is hereby limited to ninety (90) days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you.

ATTENTION CANADIAN CONSUMERS:

Canadian consumers are requested to complete the special Canadian "Warranty Registration Form" enclosed, and forward this completed form with a copy of bill of sale to TOSHIBA OF CANADA to "Register and Validate" their warranty. Product must be purchased from an Authorized Canadian Dealer. Products purchased in the U.S.A. and used in Canada are not covered by these warranties.

IMPORTANT: PACKING AND SHIPPING INSTRUCTION

When you send the product to a Service Station, you must use the original carton box and packing material, then insert the original carton box containing the unit into another carton using more packing material.

TOSHIBA



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