DRAFT

TOSHIBA

DVD VIDEO PLAYER & VIDEO CASSETTE RECORDER

SD-V393SU1

OWNER'S MANUAL

VHS Hi-Fi SQPB

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

IMPORTANT SAFEGUARDS

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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.

FCC NOTICE: 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 partly responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

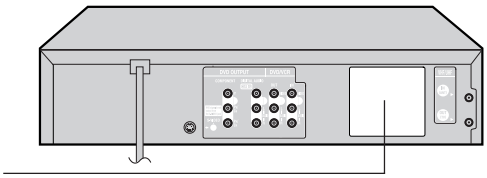
CAUTION: THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM.

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.

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 soft dry 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.

PORTABLE CART WARNING
(symbol provided by RETAC)

S3125A

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.
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. 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.

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.

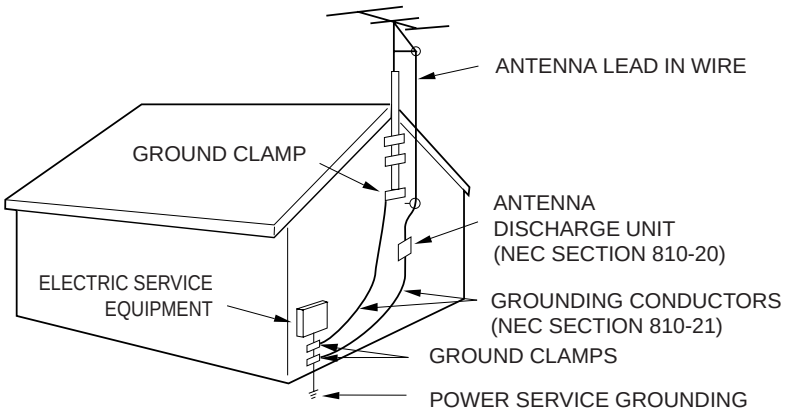
16. OBJECT AND LIQUID ENTRY

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.

EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE



NEC-NATIONAL ELECTRICAL CODE
S2898A

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.

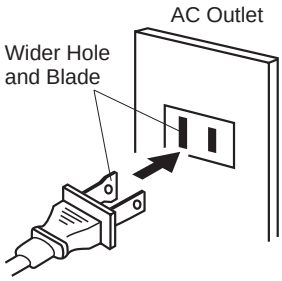
23. CONNECTING
When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause a product damage. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.

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 CABLE TV SYSTEM INSTALLER
This reminder is provided to call the Cable TV 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.

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

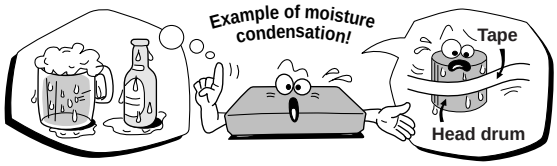
Use a soft, dry cloth for cleaning.

- Use a dry cloth to wipe.
  Do not use any type of solvent, such as thinner and benzine, 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.

Notes on moisture condensation

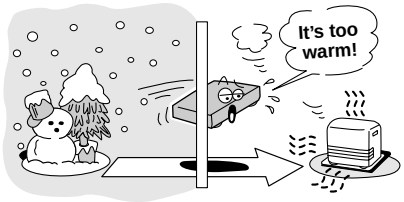
Moisture condensation damages the DVD/VCR. Please read the following carefully.

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.



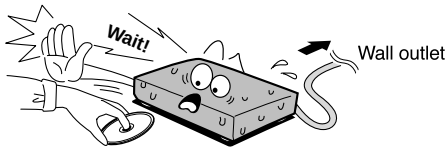
- **Moisture condensation occurs during the following cases.**

- 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.**

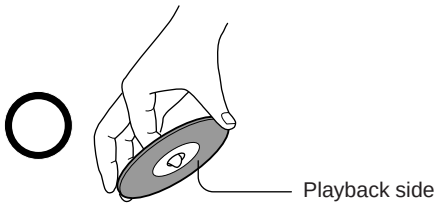
  If you use the DVD/VCR in such a situation, it may damage discs and internal parts. Remove the disc or the video tape, connect the power cord of the DVD/VCR to the wall outlet, turn on the DVD/VCR, and leave it for two or three hours. After two or three hours, the DVD/VCR will have warmed up and evaporated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



Notes on discs

On handling discs

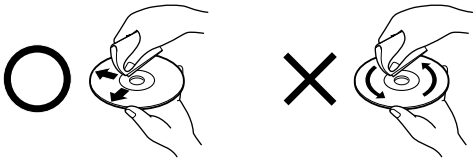
- Do not touch the playback side of the disc.



- 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.



- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.

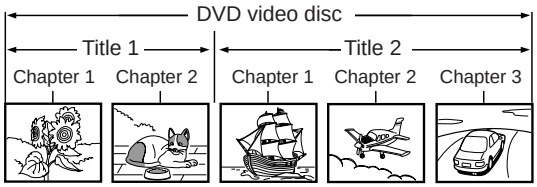
On storing discs

- 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.

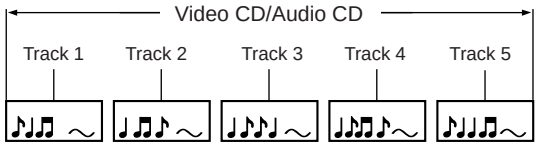
Structure of disc contents

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	DVD VIDEO	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	COMPACT disc DIGITAL VIDEO	Audio + Video (moving pictures)	12 cm	Approx. 74 minutes
			8 cm	Approx. 20 minutes
Audio CDs	COMPACT disc DIGITAL AUDIO	Audio	12 cm	Approx. 74 minutes
			8 cm (CD single)	Approx. 20 minutes

The following discs are also available.
- DVD-R/RW discs of DVD video format
- CD-R/CD-RW discs of CD-DA, Video CD, SVCD, MP3, WMA or JPEG format
- Kodak Picture CD and FUJICOLOR CD format

Some of these discs may be incompatible.

- You cannot play discs other than those listed above.
- You cannot play discs of DVD-RAM, DVD-ROM, Photo CD, etc., or non standardized discs even if they may be labeled as above.
- Some CD-R/RWs cannot 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.).

Because of problems and errors that can occur during the creation of DVD software and/or the manufacture of DVD discs, Toshiba America Consumer Products, L.L.C. and Toshiba of Canada, Ltd. cannot guarantee that this player will play every feature of every DVD bearing the DVD logo.
As one of the creators of DVD technology, Toshiba DVD players are manufactured to the highest standards of quality and, as a result, such incompatibilities are very rare. If you happen to experience and difficulty playing a DVD on a Toshiba DVD player, please feel free to call our Contact listed in "How to Obtain Warranty Services" (page 65).

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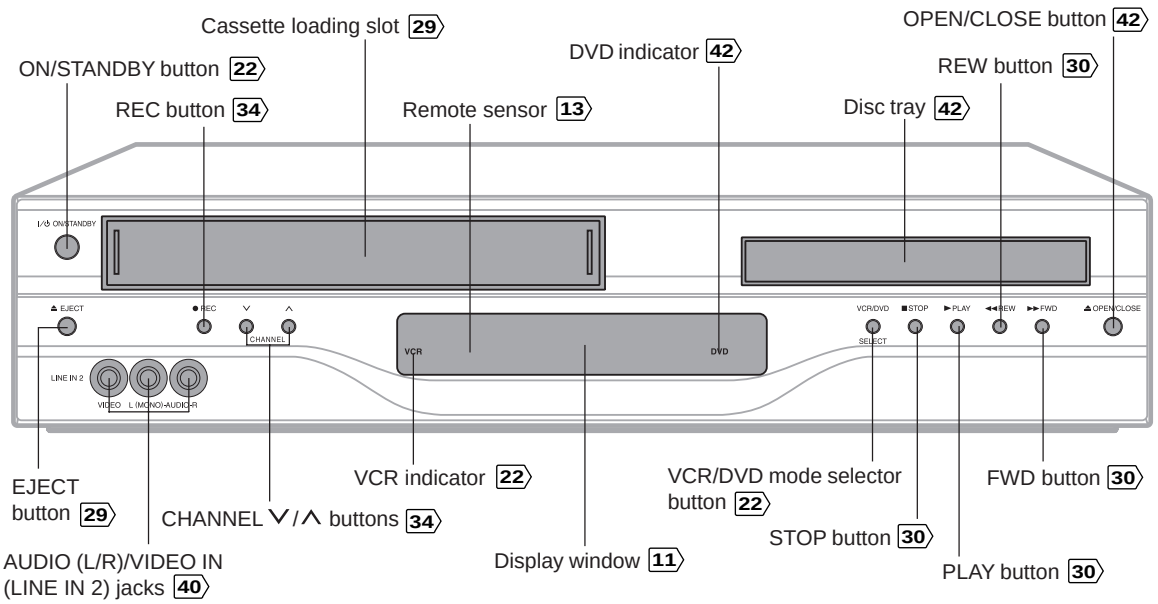
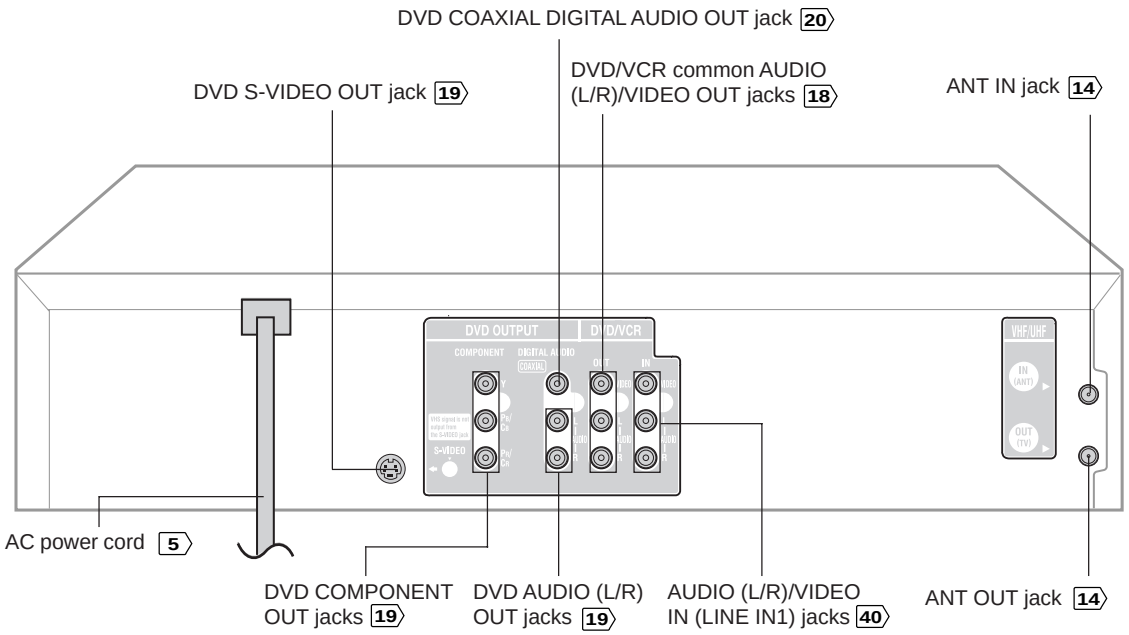
Identification of controls

See the page in ▭ for details.

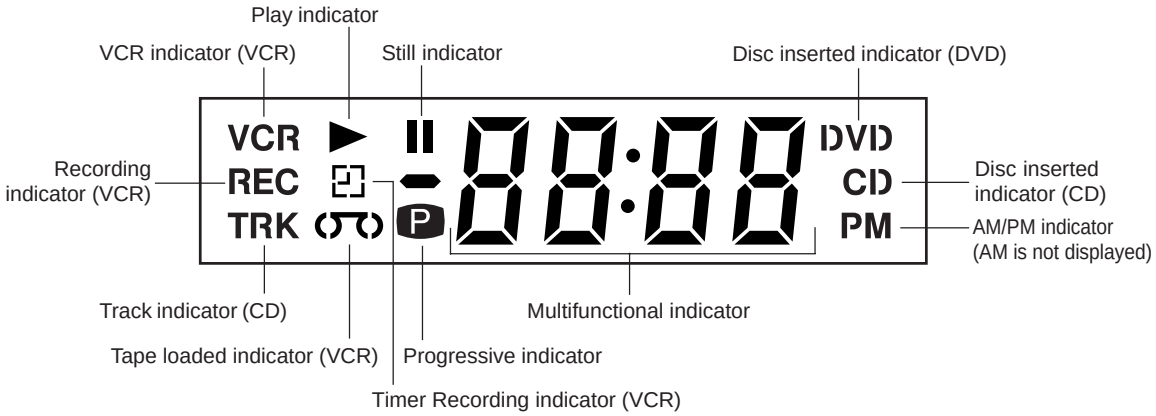
Front panel



Rear panel



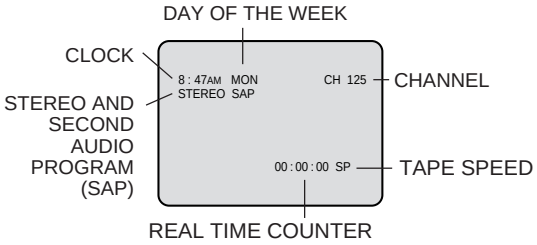
Display window



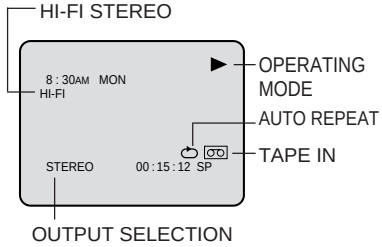
VCR operation status

Press **CALL** to display VCR operation status on the screen.
To cancel the display, press **CALL** again.

While watching TV



While operating a tape



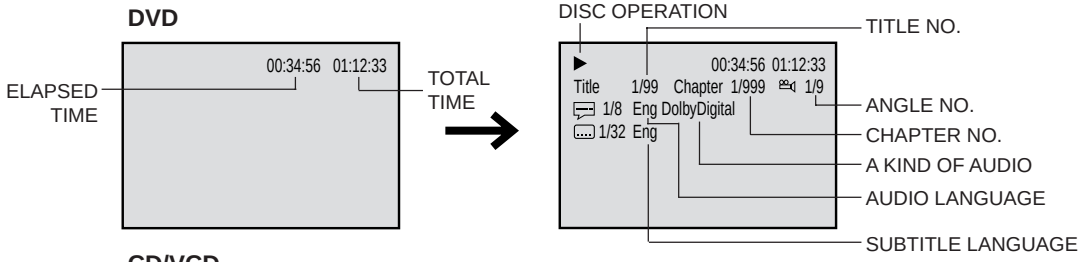
VCR Icons

Recording : ●
Rec/Pause : ●II
Play : ▶
Stop : ■
Eject : ⏏

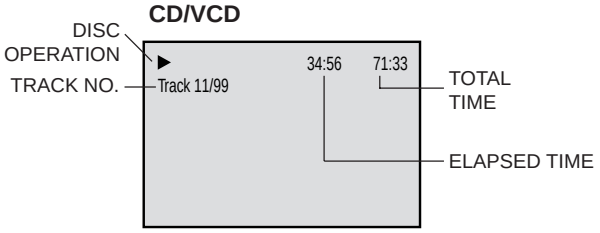
DVD/CD/VCD operation status

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

DVD



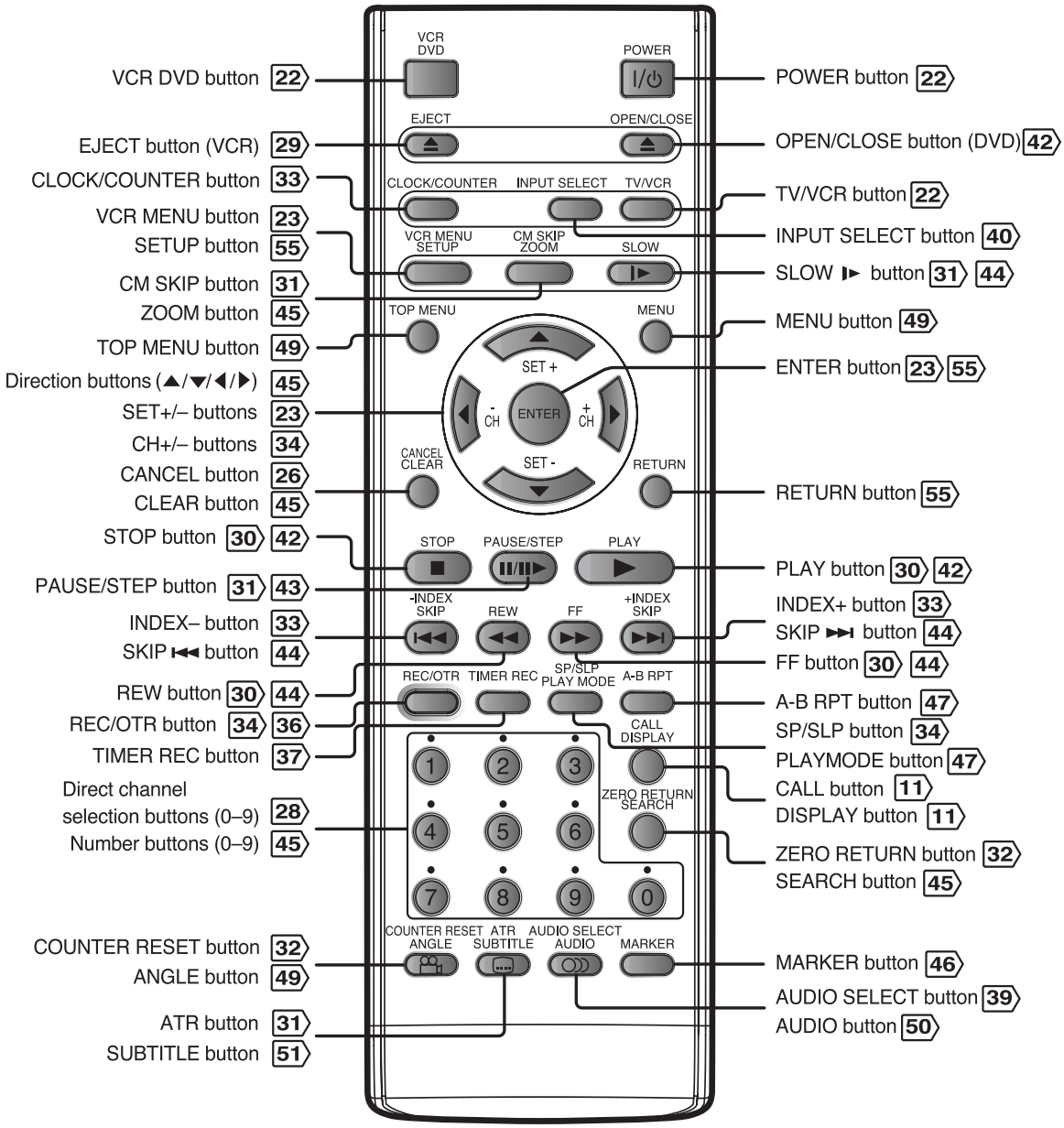
CD/VCD



Identification of Controls (continued)

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

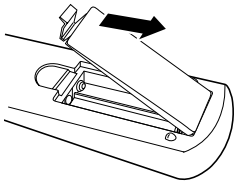
Remote control



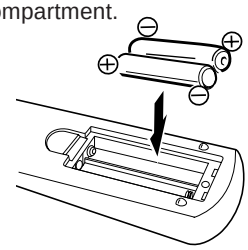
MENU button
Use the MENU button to display the menu included on many DVD video discs. To operate a menu, follow the instructions in "DVD Menu." 49

Inserting batteries

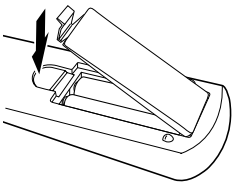
1 Open the battery compartment cover in the direction of the arrow.



2 Install two “R03/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:

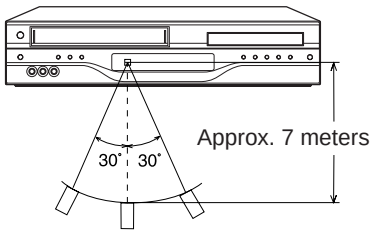
1. Use only the size and type of batteries specified (R03/AAA).
2. Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device. To avoid a potential short circuit, insert the “–” end first.
3. Do not mix 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.)
6. Dispose of used batteries in a designated area. Do not throw batteries into a fire. Attention should be drawn to the environmental aspects of battery disposal.

Remote control basics

- Press **POWER** 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 ▲/▼/◀/▶ are also used to navigate on-screen menu system.
- You can directly access specific channels using **Direct channel selection buttons (0–9)**.
- 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.



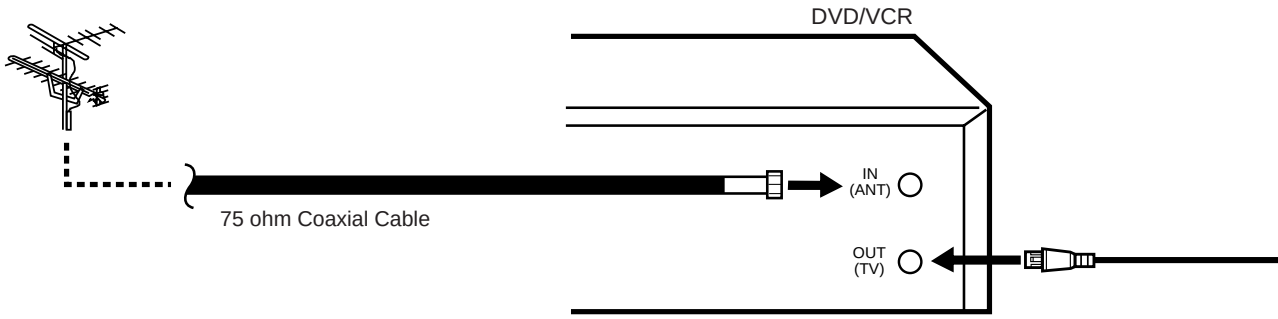
Antenna connections

If you are using an antenna system, follow these instructions. If you are a Cable TV subscriber, skip ahead to page 16 for the proper connections.

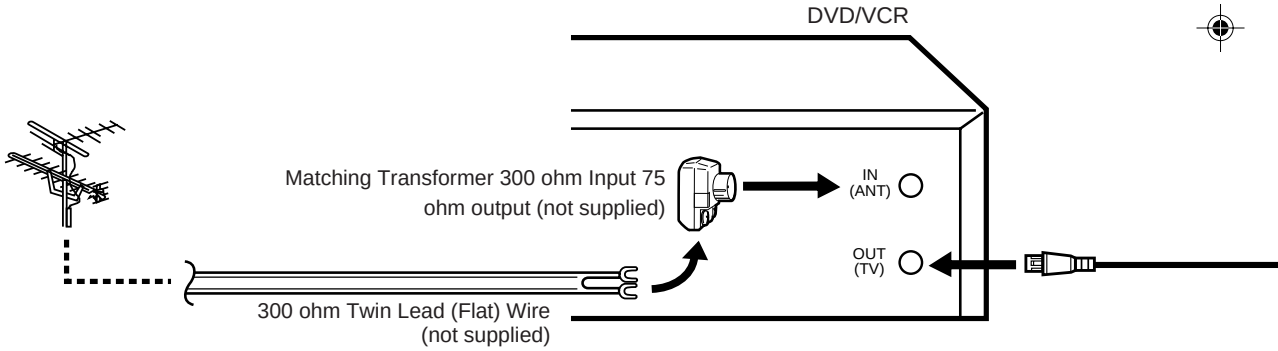
Antenna to DVD/VCR connection

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.

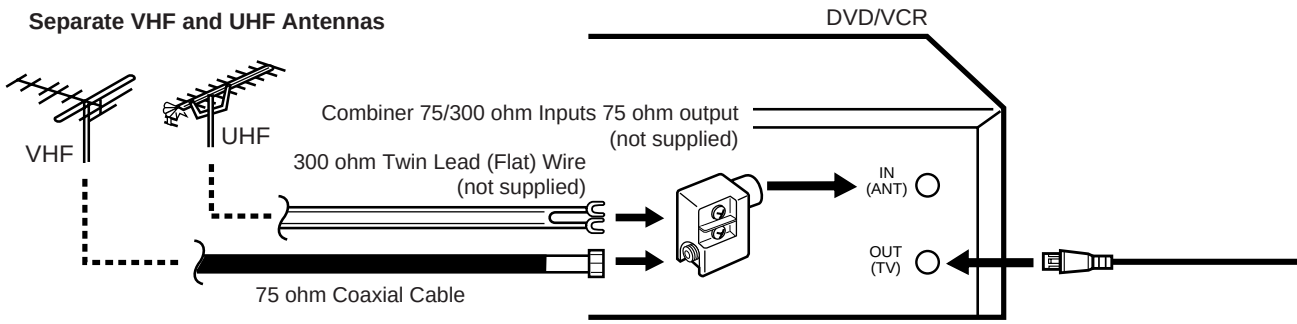
1 **Combination VHF/UHF Antenna with 75 ohm Coaxial Cable**



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



3 **Separate VHF and UHF Antennas**



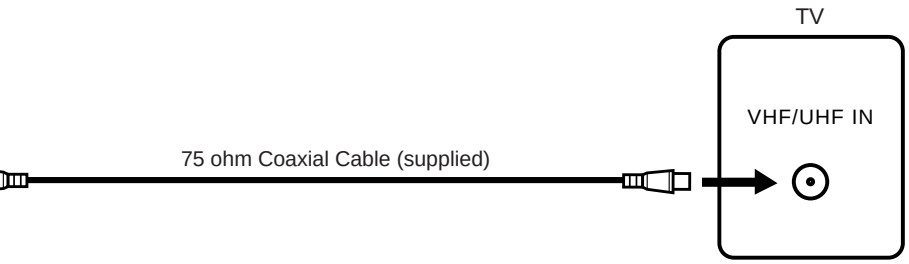
Note: If both VHF and UHF antennas have 300 ohm twin lead (flat) wires, use a combiner having two 300 ohm inputs and one 75 ohm output.

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

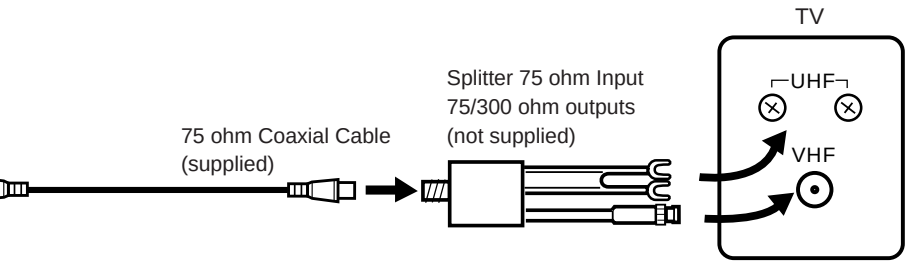
After you have connected the antenna to the DVD/VCR, you must connect the DVD/VCR to the TV.
Below are 3 common methods of connecting your DVD/VCR to a TV. Find the type of TV you are using and follow the connection diagram.

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.



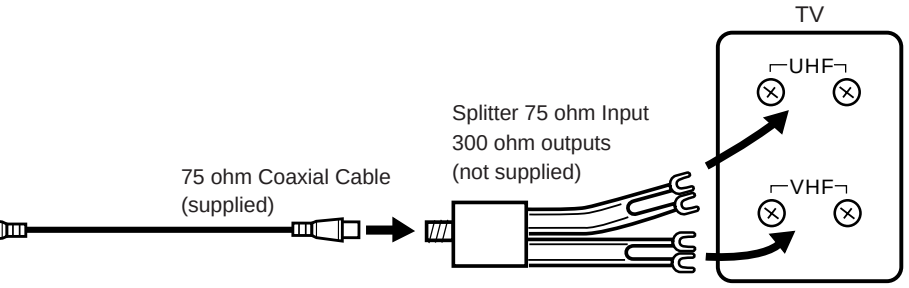
Note: **If a VHF or UHF antenna is used, set the TV/CABLE menu option to the "TV" mode.**

TV with single 75 ohm VHF/UHF antenna input



Note: **If a VHF or UHF antenna is used, set the TV/CABLE menu option to the "TV" mode.**

TV with 300 ohm UHF and 75 ohm VHF antenna inputs



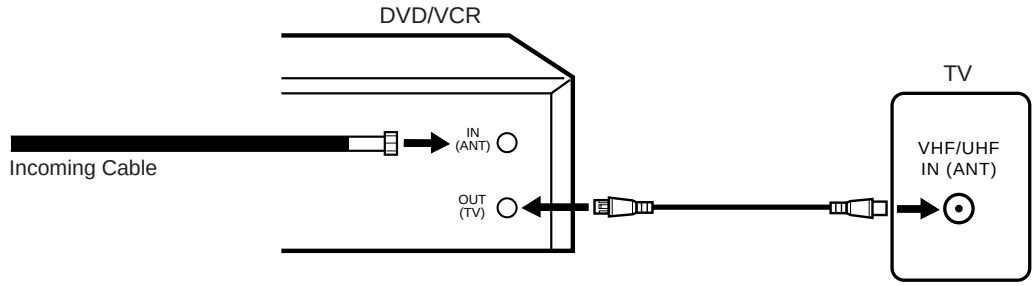
Note: **If a VHF or UHF antenna is used, set the TV/CABLE menu option to the "TV" mode.**

TV with 300 ohm UHF and 300 ohm VHF antenna inputs

Cable TV connections

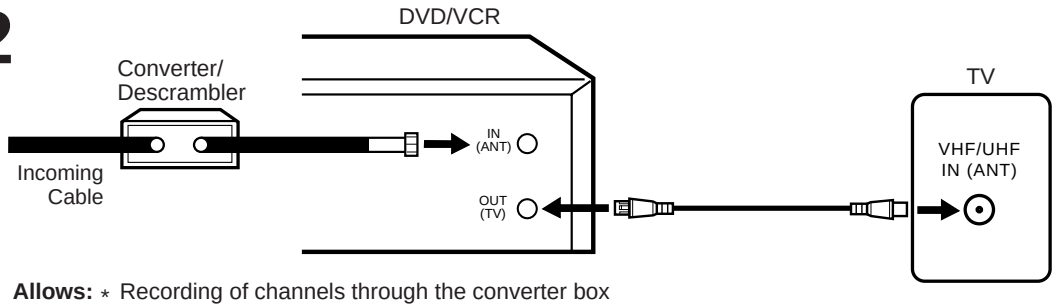
Many cable companies offer services permitting reception of extra channels including pay or subscription channels. This DVD/VCR has an extended tuning range and can be tuned to most cable channels without using a cable company supplied converter box, except for those premium channels which are intentionally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

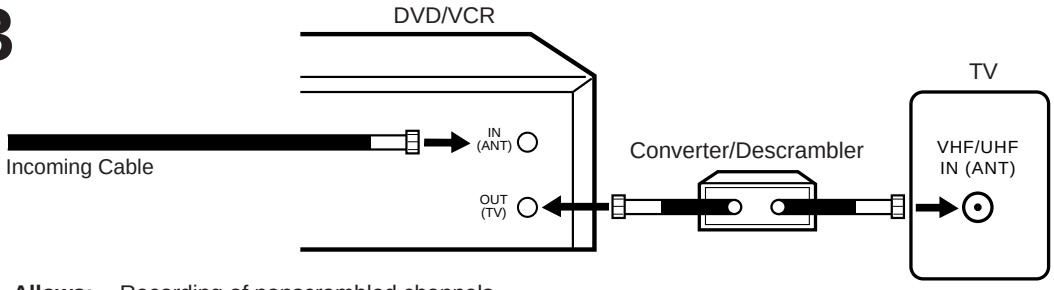


Allows:
* Recording of channels through the converter box (scrambled and unscrambled).
* Using the programmable timer to record only the channel selected at the converter box.

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.

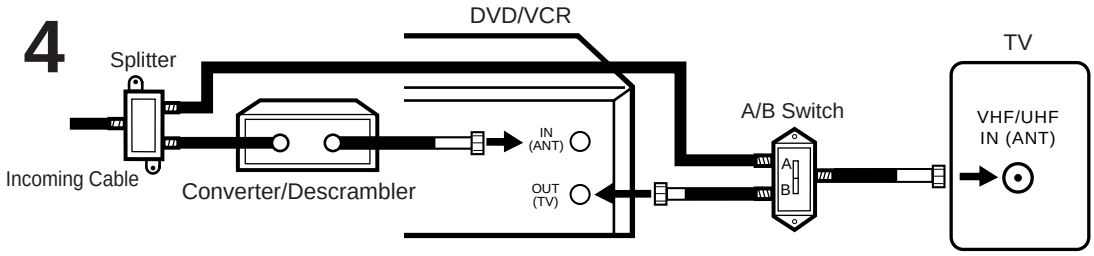
Note:
If you are playing a tape or using the tuner built into the DVD/VCR, the converter must be set to the video channel output of the DVD/VCR (either 3 or 4).

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/CABLE menu option is set to the “CABLE” 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.

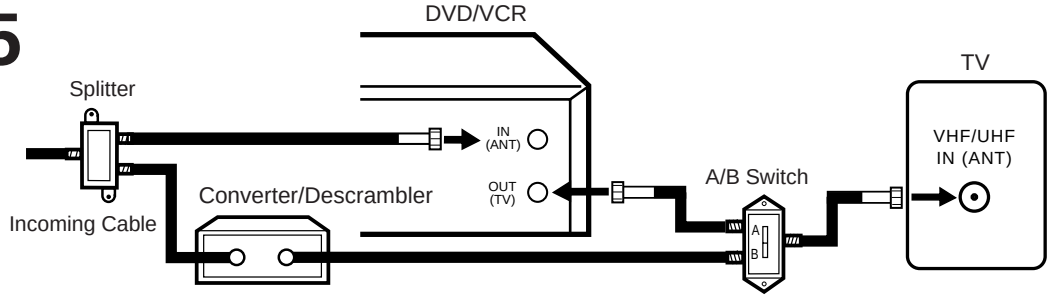
4



Allows:
- Recording of one channel while watching another.
- Using the programmable timer to record only the channel selected at the converter box.
- Recording of all channels through the converter box.

Prevents:
- Watching scrambled channels while recording another channel.
- Using the DVD/VCR tuner to select channels.

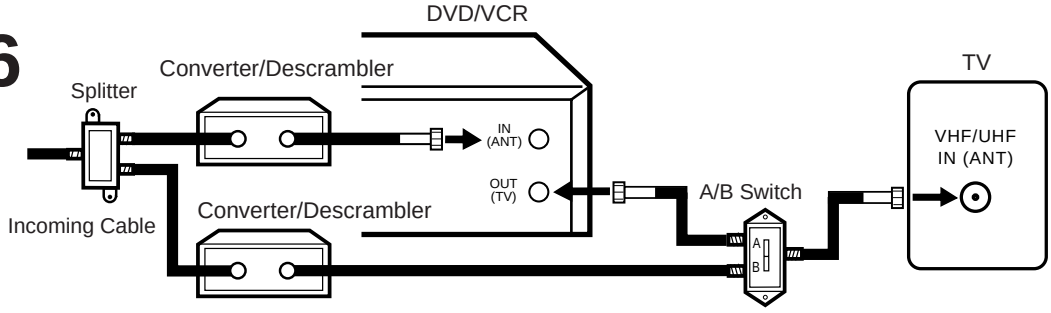
5



Allows:
- Recording of nonscrambled channels.
- Recording of one channel while watching another.
- Watching premium channels through the converter while recording nonscrambled channels.
- Using the programmable timer.

Prevents: Recording scrambled channels.

6



Allows:
- Recording of all channels through the converter box.
- Recording a scrambled or unscrambled channel while watching another (scrambled or unscrambled) channel.
- Using the programmable timer to record only the channel selected at the converter box.

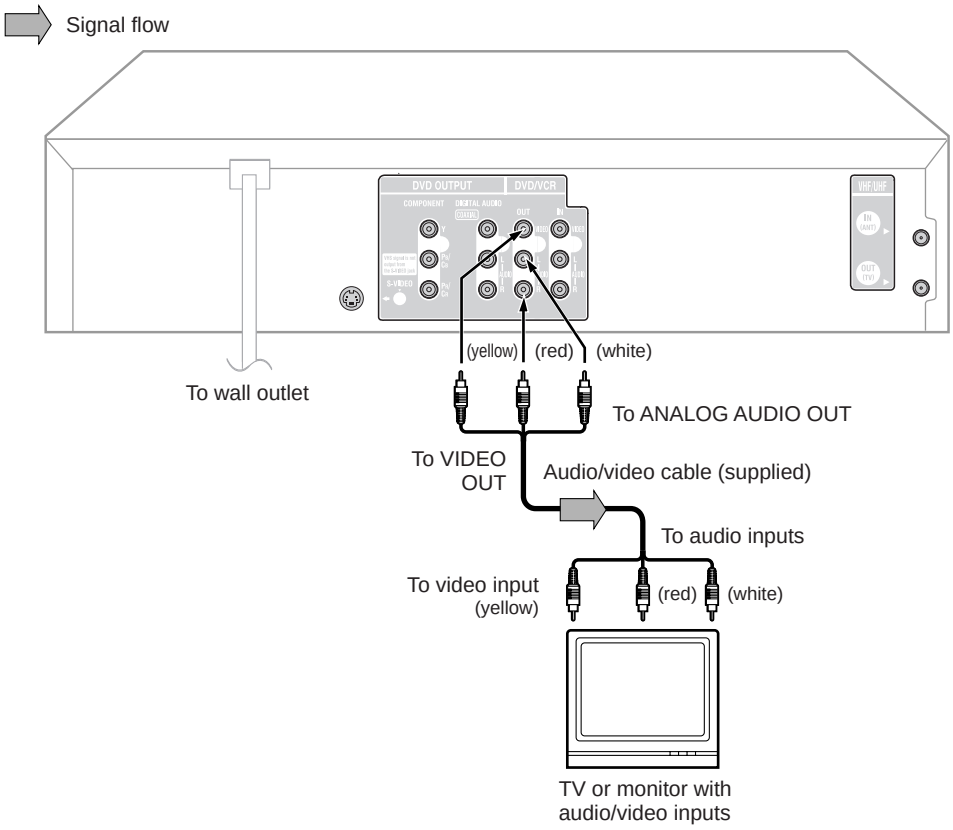
Prevents: Using the DVD/VCR tuner to select channels.

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. 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.

S-video output

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.

Component video outputs

■ PROGRESSIVE outputs

Some TVs or monitors are equipped with component video inputs that are capable of reproducing a progressively scanned video signal. Connecting to these inputs allows you to view the highest quality pictures with less flicker.

■ INTERLACED outputs

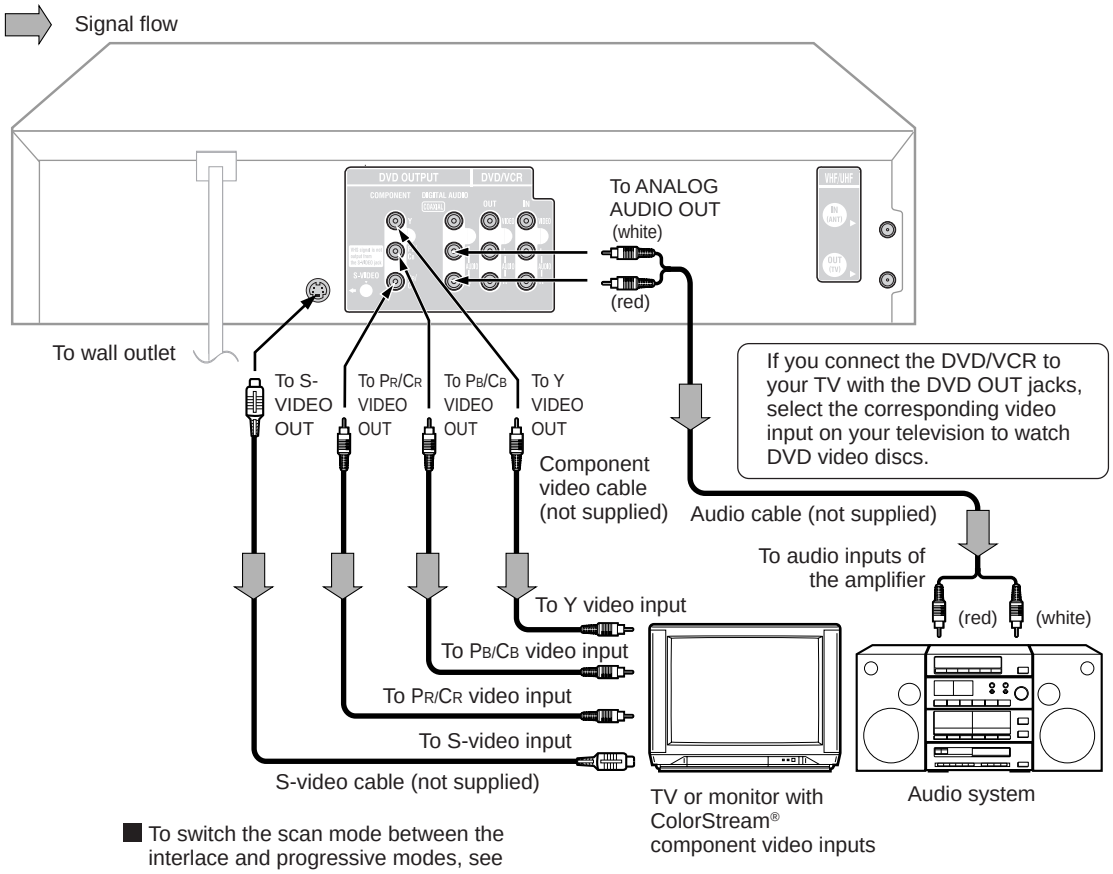
Some TVs or monitors are equipped with component video inputs. Connecting to these inputs allows you to enjoy the highest quality DVD picture playback.

Notes:

- 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.

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

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



■ To switch the scan mode between the interlace and progressive modes, see page 59.

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.
- **When connecting to a TV using the Video or S-video jack, make sure that the Progressive indicator "P" on the display window is not lit. If it is lit, the Video and S-video outputs do not feed the correct signals and you cannot see any picture. To turn off the Progressive indicator, select PROGRESSIVE scan Off 59.**

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.

• This selection uses the following reference mark.

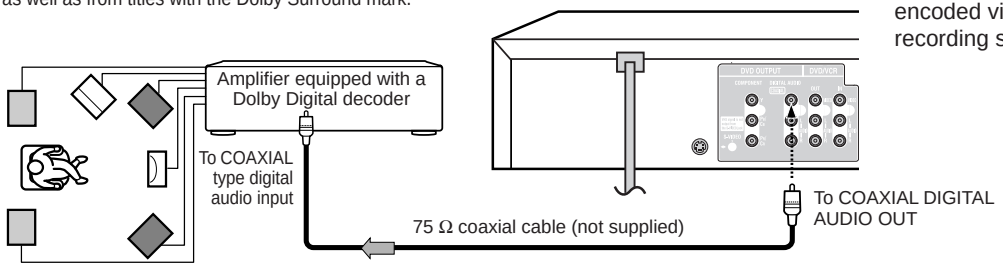
: Front speaker	: Center speaker
: Rear speaker	: Signal flow
: Sub woofer	

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 encoded via the Dolby Digital recording system 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 registered trademarks of Dolby Laboratories.

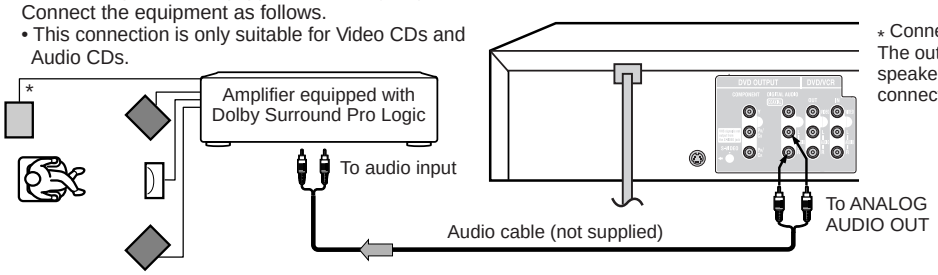
• Use DVD video discs encoded via the Dolby Digital recording system.



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.
  • This connection is only suitable for Video CDs and Audio CDs.



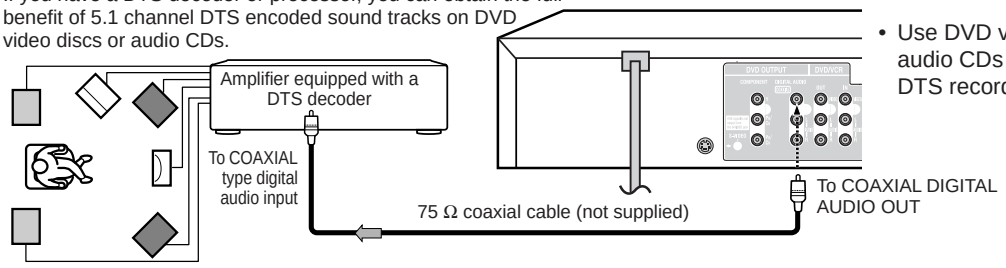
* Connect one or two rear speakers. The output sound from the rear speakers will be monaural even if you connect two rear speakers.

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 Out” are registered trademarks of Digital Theater Systems, Inc.

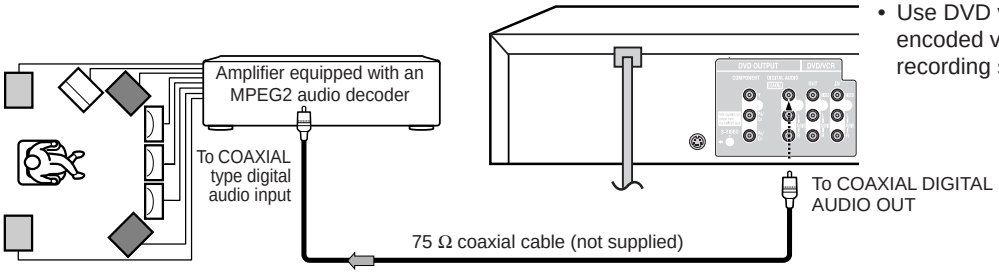
• Use DVD video discs or audio CDs encoded via the DTS recording system.



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. (Do not leave the ANALOG AUDIO OUT (L/R) wires dangling.) 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

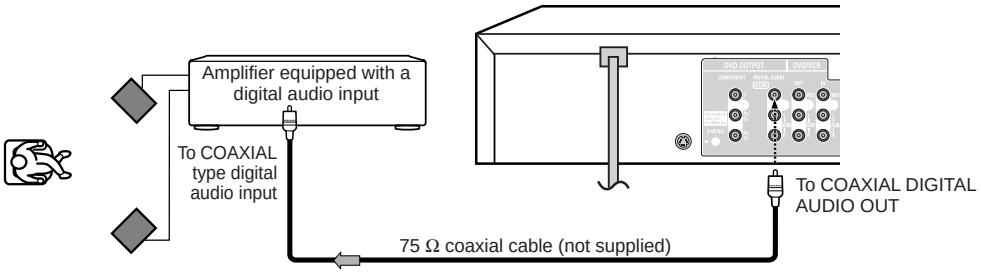
MPEG2 sound
You can enjoy motion picture and live concert DVD video discs encorded via the MPEG2 recording system with dynamic realistic sound by connecting an amplifier equipped with an MPEG2 audio decoder or MPEG2 audio processor.



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

Connecting to an amplifier equipped with a digital audio input

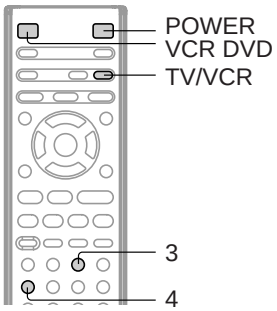
2 channel digital stereo
You can enjoy the dynamic sound of 2 channel digital stereo by connecting an amplifier equipped with a digital audio input and speaker system (right and left front speakers).



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 “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 and your hearing 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

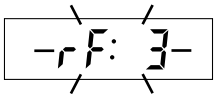
When a TV is connected with the 75 ohm coaxial cable only.
To view playback of a recorded tape or DVD disc, or to watch a program selected by the VCR's channel selector, the TV must be set to channel 3 or 4 (video channel).



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.**

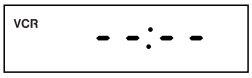
The VCR indicator on the front panel will light.

– VCR –

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.

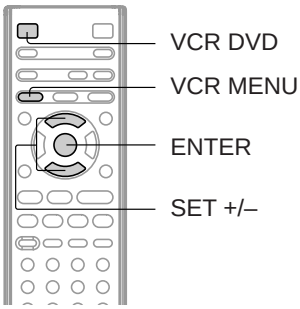
■ For a push-button TV tuner

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.

Note:
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.

Setting the language

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



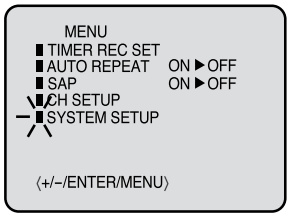
Setting the language

Preparation:

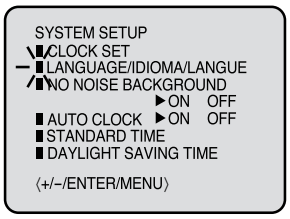
- Turn ON the TV and select to the corresponding video input.
- Press **VCR DVD** selector to select the VCR mode. (The VCR indicator will light.)

1 **Press VCR MENU.**

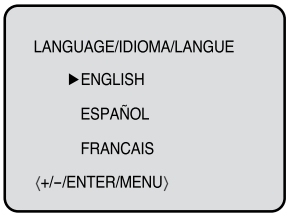
The VCR menu screen will appear. Press **SET +** or **–** to select "SYSTEM SETUP", then press **ENTER**.
If you use the unit for the first time and press **VCR MENU**, instead of the main menu screen the "SYSTEM SETUP" menu screen in step **2** may appear.



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.**



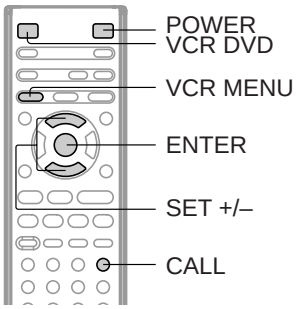
4 **Press VCR MENU until the MENU screen is cleared.**

Notes:

- Both the VCR and the DVD have their own player menus 55.
- 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.**

POWER

- If you press **POWER**, the Auto Clock set is not programmed.

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

POWER

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

CALL DISPLAY

8 : 47AM MON CH 125
STEREO SAP
00 : 00 : 00 SP

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.**

VCR MENU SETUP

MENU
TIMER REC SET
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
AUTO REPEAT ON ▶OFF
SAP ON ▶OFF
CH SETUP
SYSTEM SETUP
⟨+/–/ENTER/MENU⟩

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

SYSTEM SETUP
CLOCK SET
LANGUAGE/IDIOMA/LANGUE
NO NOISE BACKGROUND ▶ON OFF
AUTO CLOCK ▶ON OFF
STANDARD TIME
DAYLIGHT SAVING TIME
⟨+/–/ENTER/MENU⟩

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

SYSTEM SETUP
CLOCK SET
LANGUAGE/IDIOMA/LANGUE
NO NOISE BACKGROUND ▶ON OFF
AUTO CLOCK ON ▶OFF
STANDARD TIME
DAYLIGHT SAVING TIME
⟨+/–/ENTER/MENU⟩

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

VCR MENU SETUP

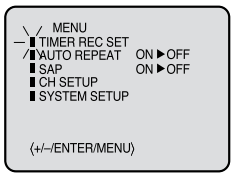
- When the AUTO CLOCK is set to "OFF", the AUTO CLOCK adjustment does not function.
- Set the clock manually 26.

To set STANDARD TIME

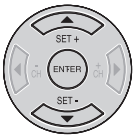
In the rare event that you live within broadcast range of two stations in two different time zones, the DVD/VCR may recognize the wrong station for the AUTO CLOCK setting. To correct the situation:

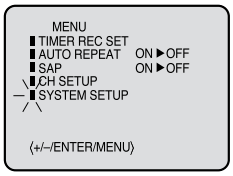
1 **Press VCR MENU.**

VCR MENU SETUP

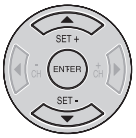


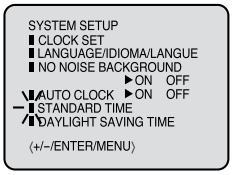
2 **Press SET + or – to select "SYSTEM SETUP", then press ENTER.**





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





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 until the MENU screen is cleared.**

VCR MENU SETUP

Notes:

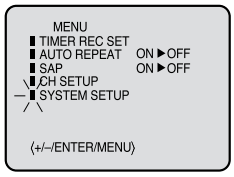
- To be able to select the standard time, the clock must first be set by AUTO CLOCK once.
- If you live in Newfoundland and the AUTO CLOCK does not function properly, set the AUTO CLOCK menu option to "OFF" and set the clock manually.

To set DAYLIGHT SAVING TIME

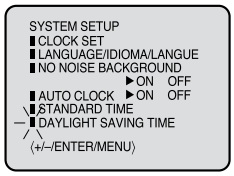
You can set the DAYLIGHT SAVING TIME automatically or manually.

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

VCR MENU SETUP



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

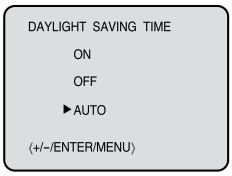


3 **Press SET + or – to select one of the options, then press ENTER. Press VCR MENU until the MENU screen is cleared.**

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".

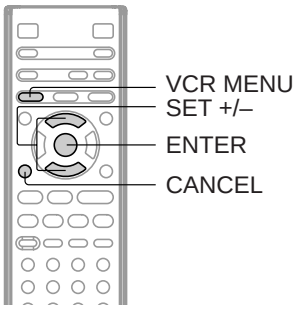


Notes:

- 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.

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.

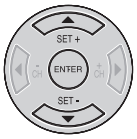


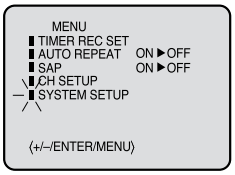
Manual clock setting

EXAMPLE: Setting the clock to “8:30 AM” March, 26 (SAT), 2005.

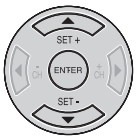
1 **Press VCR MENU.**

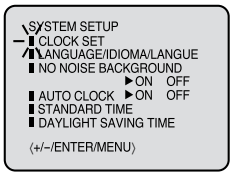
2 **Press SET + or – to select “SYSTEM SETUP”, then press ENTER.**



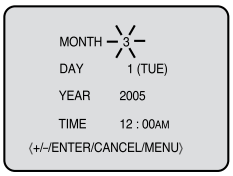


3 **Press SET + or – to select “CLOCK SET”, then press ENTER.**

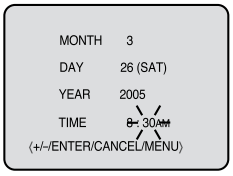




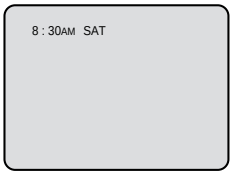
4 **Press SET + or – to set the month, then press ENTER.**



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



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

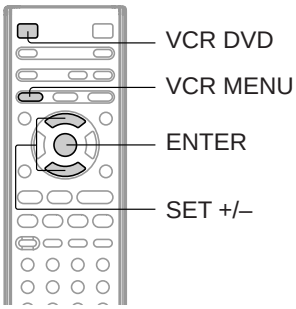


■ **To make corrections any time during the process**
Press **CANCEL** repeatedly until the item you want to change blinks, then press **SET +** or **–**.

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/CABLE menu option to the TV mode. When shipped from the factory, this menu option is in the CABLE mode.

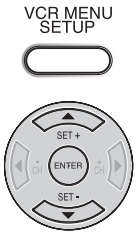


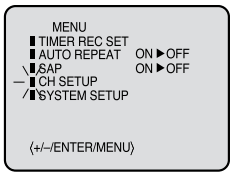
TV/CABLE selection

Preparation:

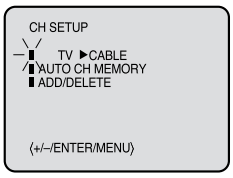
- Turn ON the TV and select to the corresponding video input.
- Press **VCR DVD** selector to select the VCR mode. (The VCR indicator will light.)

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



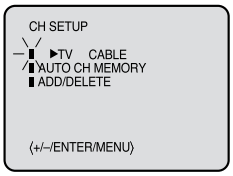


2 **Press SET + or – to select "TV/CABLE".**



3 **Press ENTER to select the TV or CABLE mode.**

The arrow indicates the selected mode.



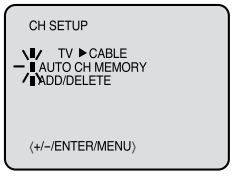
TV	- VHF/UHF channels
CABLE	- Cable TV channels

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".

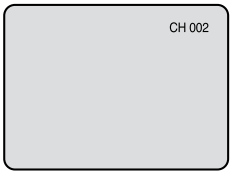
Setting channels automatically

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

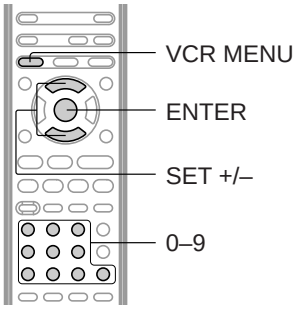


2 **Press ENTER.**

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

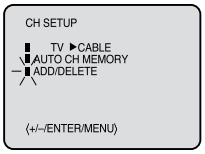


Tuner setting (continued)



To ADD/DELETE channels

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

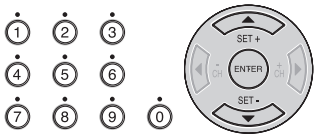


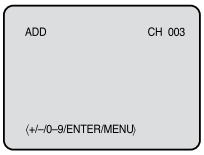
2 **To Add or Delete desired channels**

1) Press **Direct channel selection buttons (0–9)** or **SET +/–** 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.



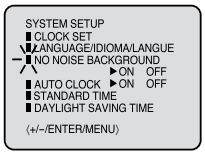


3 **Press VCR MENU until the menu screen is cleared.**

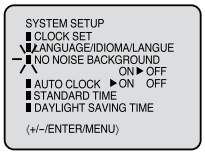
Noise elimination

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".**



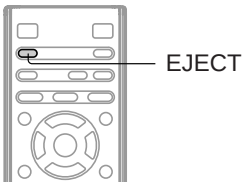
2 **Press ENTER to select "ON" or "OFF" position.**



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

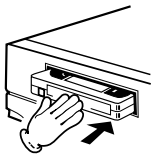
Loading and unloading a cassette tape

Use only video cassette tapes marked VHS.

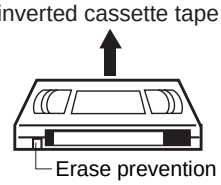


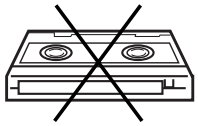
Loading

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.



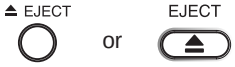


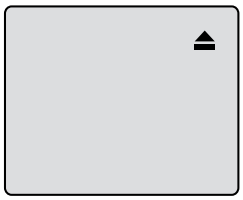
Automatic power ON
When you insert a cassette tape the DVD/VCR power will turn ON automatically.

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

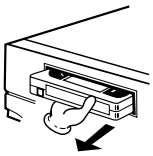
Unloading

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





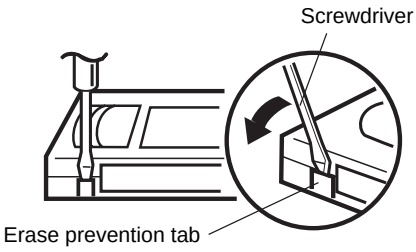
2 Remove the cassette tape.



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.



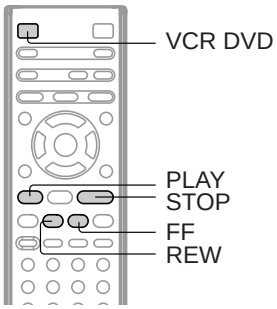
To record again
Cover the hole with a piece of adhesive tape.

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.



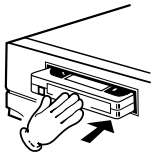
Playback

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 **DVD/VCR** selector, the tape playback and DVD playback alternate with each other on the screen (via CH3, 4 or video connection).

Rewind or forward the tape

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

To rewind the tape:

Press **REW**.

To forward the tape:

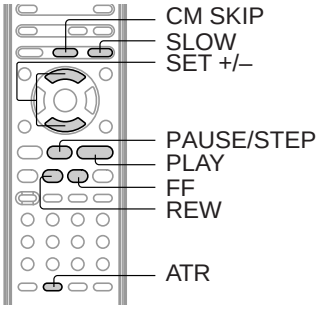
Press **FF**.

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 **FF** and hold it down. The unit will resume the tape advance or rewinding as soon as the button is released.

Special playback



Picture search

Reverse picture search function

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

Forward picture search function

Press **FF** 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/STEP** during playback.
To resume normal playback, press **PLAY** or **PAUSE/STEP**.

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/STEP** during playback.
Press **SLOW** repeatedly: The picture advances frame by frame.
To return to playback, press **PLAY** or **PAUSE/STEP**.

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

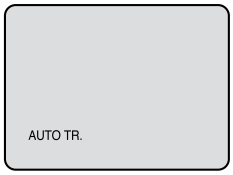
■ **Automatic tracking adjustment**

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 PICTURE, 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.

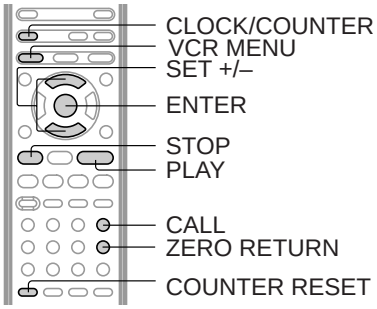
Good Picture

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

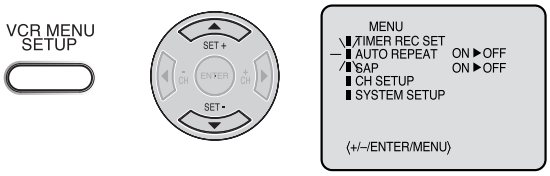


Repeat playback

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

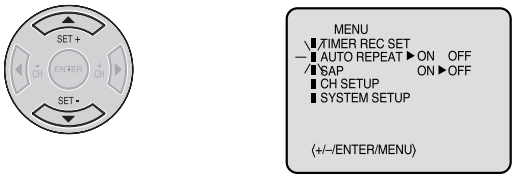
1 **Press VCR MENU.**

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.

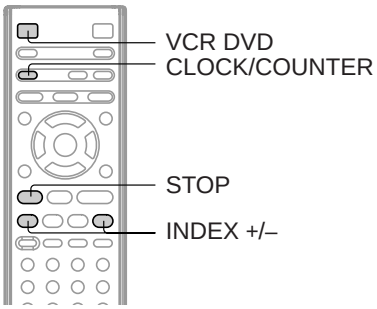
2 **Press COUNTER RESET at the desired tape position.**

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

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

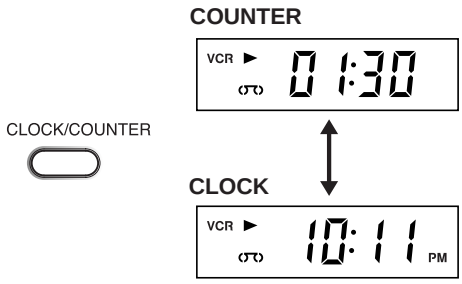
The tape will automatically rewind or fast forward to the "00:00:00" counter position.

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

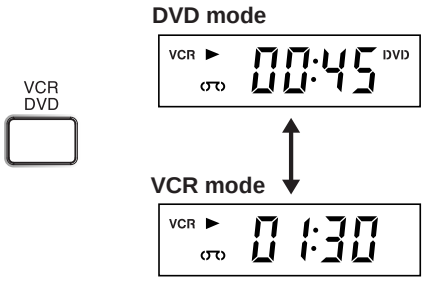


Clock/counter display

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.

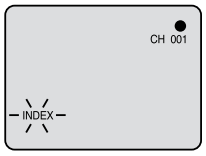


Notes:
- If you rewind the tape beyond “00:00:00”, a minus sign (“–”) will be displayed in front of the time.
- When you load a tape, the counter will reset to “00:00:00”.
- The counter does not function on nonrecorded (blank) sections of the tape. When you rewind, fast forward or play tapes through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

Video index search system

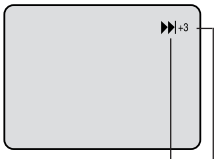
This function enables you to locate the beginning of any recording made on the VCR.

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**.



⏭ or ⏮ is displayed
INDEX NO. (up to 9)

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.

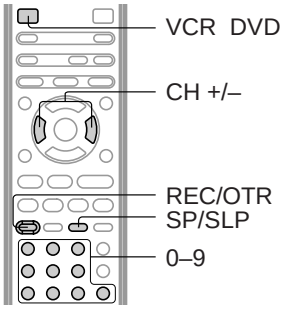
SQPB (S-VHS Quasi Playback)

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.



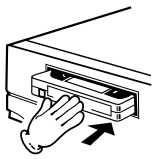
Recording a TV program

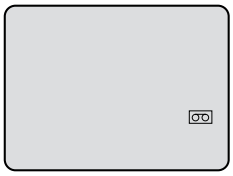
Preparation:

- 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.**

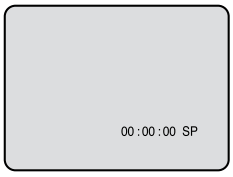
The DVD/VCR will automatically turn on.





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

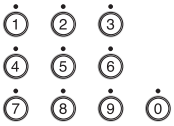
The tape counter and “SP” or “SLP” will appear on the screen for about 4 seconds.

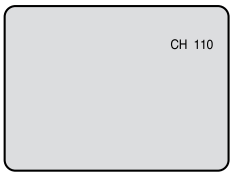


3 **Select “TV” or “CABLE” to the appropriate position** 27**.**

TV	- VHF/UHF channels
CABLE	- Cable TV channels

4 **Press Number buttons 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.

CABLE mode direct channel selection:

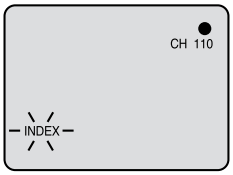
1-9	Press **0** twice and then **1-9** as required. Example: To select “2”, Press **002**.
10-12	Press **0** first and then the remaining 2 digits in order from left to right. Example: Press **012** for “12”.
13-99	Press 2 digits in order. Example: Press **22** for “22”.
100-125	Press the 3 digits in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

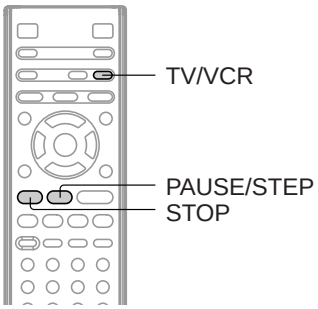
VHF/UHF/CABLE TV CHANNELS

TV	CABLE TV
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/OTR.**

“ ● ” 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.

STOP

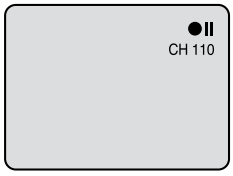
" ■ " will appear on screen for about 4 seconds.

To stop recording temporarily

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

PAUSE/STEP

" ●II " will appear on screen for about 4 seconds.



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.

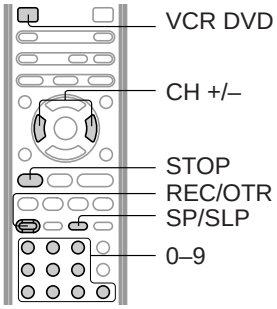
Note:
Some Cable TV hookups do not permit viewing one channel while recording another. See pages 16 and 17.

■ 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.

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)

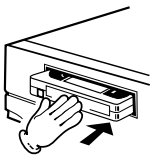
Preparation:

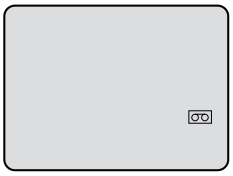
- Turn ON the TV and select to the corresponding video input.
- Press **VCR DVD** selector to select the VCR mode. (The VCR indicator will light.)

Example: One-touch Timer Recording for 30 minutes.

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

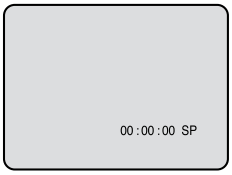
The VCR will automatically turn on.





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

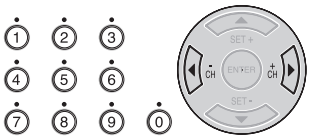
The tape counter and “SP” or “SLP” will appear on the screen for about 4 seconds.

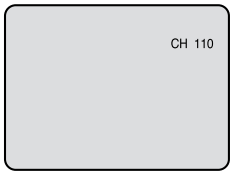


3 **Set “TV” or “CABLE” option to the appropriate position** 27**.**

TV	- VHF/UHF channels
CABLE	- Cable TV channels

4 **Press Direct channel selection buttons (0–9) or CH +/– to select the channel to be recorded.**

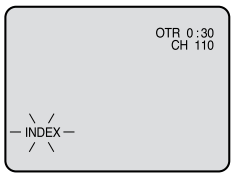




5 **Press REC/OTR. Recording begins. Press the button again to stop recording after 30 minutes. Each additional press of REC/OTR will increase recording time as shown in the chart below, up to a maximum of 6 hours.**

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



To cancel OTR

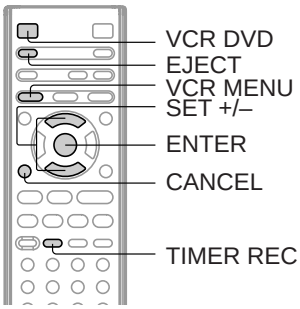
Press **STOP** or turn off the power.

“ ■ ” 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 42.

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.



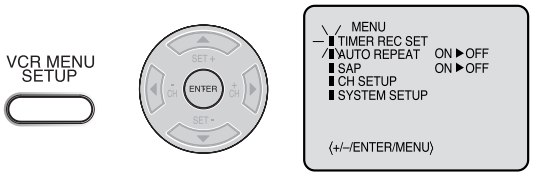
Timer recording

Preparation:

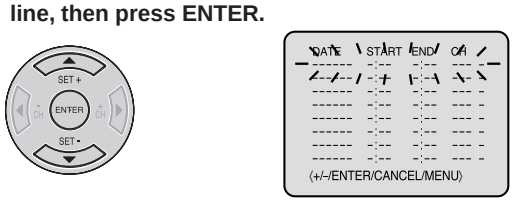
- Press **VCR DVD** selector to select the VCR mode.
- Load a cassette tape with the erase prevention tab intact.
- Check the time and date are correct 24.

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

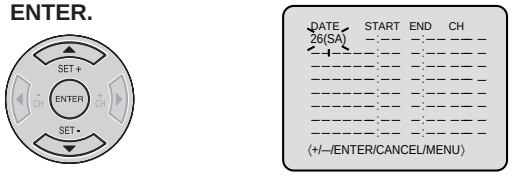
1 **Press VCR MENU. Select "TIMER REC SET", then press ENTER.**



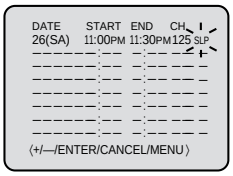
2 **Press SET + or – to select one of the program line, then press ENTER.**



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.**

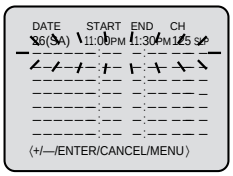


Notes:

- 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.

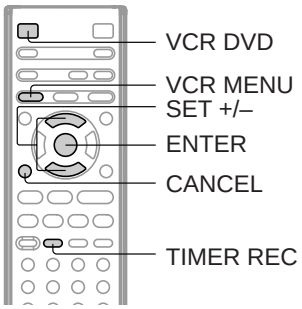
Notes:

- 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)

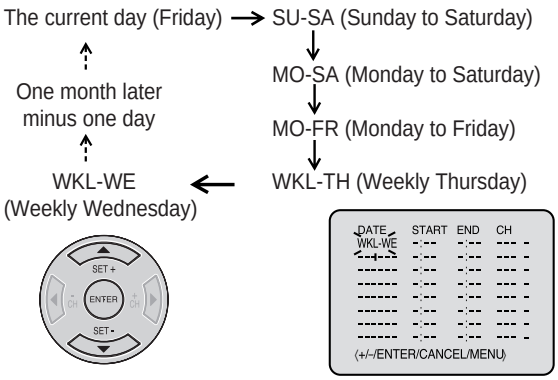


To set daily/weekly timer

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

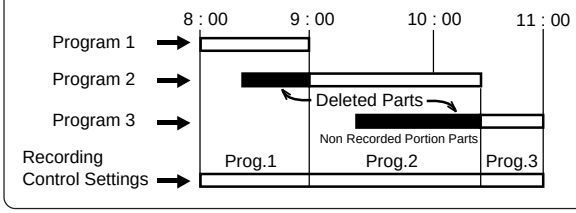
Follow the procedure of timer recording on the previous page. At step **3** press **SET +** or **–** repeatedly until the desired setting appears. Then press **ENTER**.

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



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.

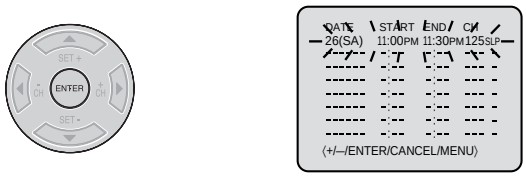
To confirm or cancel a program

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.

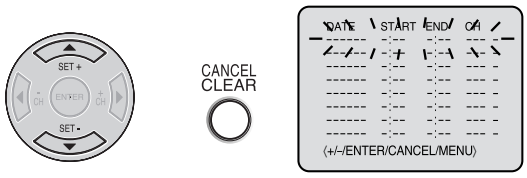
2 **To confirm Timer program:**

At step **1** on the previous page select "TIMER REC SET" and press **ENTER**.
The timer program list will appear on the screen.



3 **To cancel Timer program:**

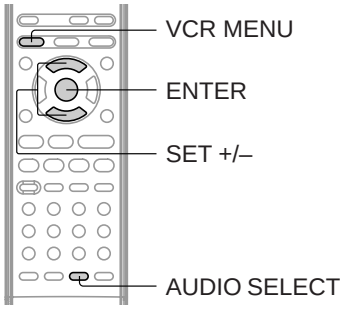
Press **SET +** or **–** to select the unwanted program, then press **CANCEL** to cancel the program.



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

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 Cable TV 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.

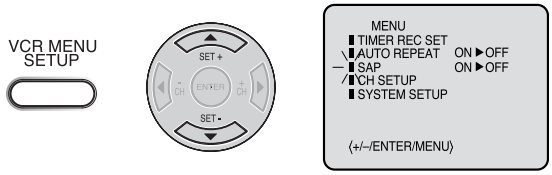
Output selection
When viewing an MTS stereo TV program, or playing a prerecorded VHS Hi-Fi stereo videotape, press **AUDIO SELECT** to select how the audio will be heard through the speakers. Normally set to the Hi-Fi stereo position, this button can be set to the MONO position if the stereo broadcast 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 L ch R ch	STEREO LEFT CHANNEL AUDIO RIGHT CHANNEL AUDIO MONO

Second Audio Program (SAP)

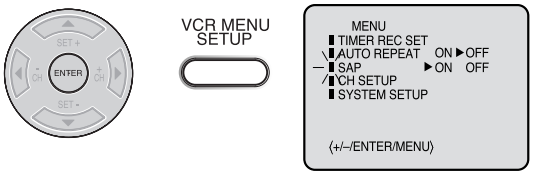
Your DVD/VCR is fitted with a SAP broadcast system which enables you to switch to a second audio program when viewing a selected channel.
This function applies only when the program is broadcast in multi-languages through the SAP broadcast system.

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



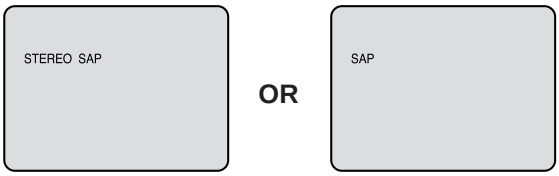
2 **Press ENTER to select "ON".**

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



Listening to SAP

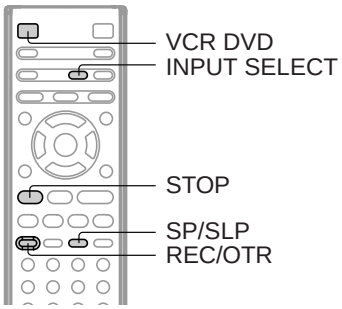
When the VCR is turned on or a channel selection is made, make certain the letters "SAP" appears on the screen for about 4 seconds. This means that the "Second Audio Program" broadcasting is available.



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.**

SP/SLP PLAY MODE

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.

INPUT SELECT

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

3 **Press PLAY on the playback VCR or Camcorder.**

4 **Press REC/OTR on the recording VCR.**

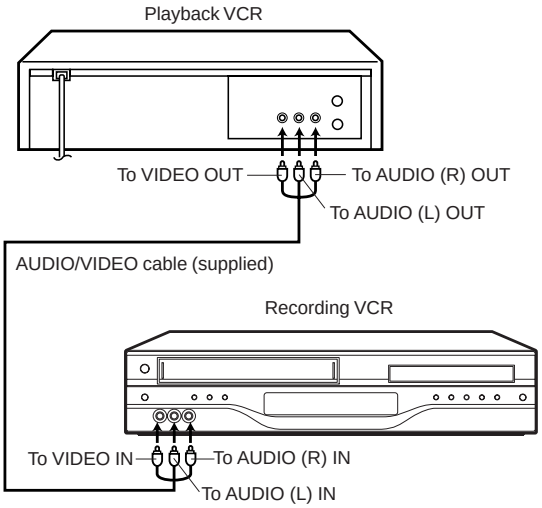
The duplicating process begins.

REC/OTR

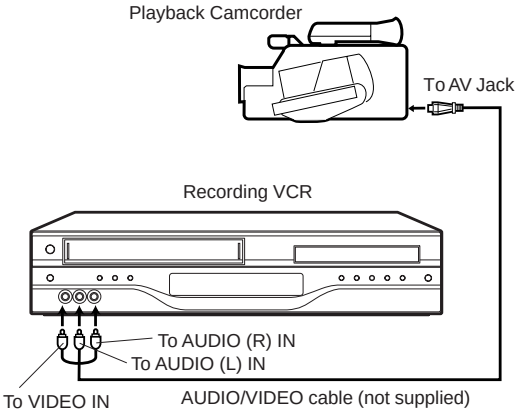
5 **Press STOP after duplicating a video tape.**

STOP

Connection with second VCR



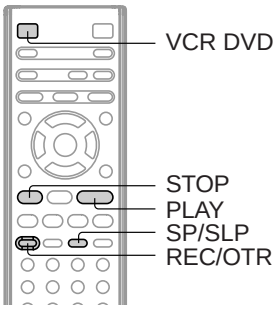
Connection with Camcorder



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.



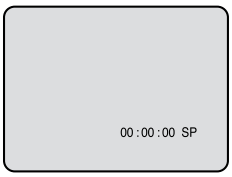
Duplicating a DVD or CD disc

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.

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

3 **Press PLAY to start playback.**

PLAY

4 **Press REC/OTR 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**.

Notes:

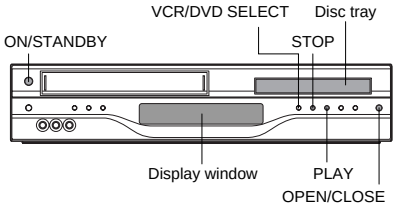
- You may not be able to record the beginning of the disc. Begin VCR recording once program playback commences on the DVD.
- When the scanning mode is set to the progressive mode, you cannot duplicate a disc material onto a video tape. When **REC/OTR** is pressed, the PROGRESSIVE indicator "P" on the display window will flash and "Please Set P Off" will appear on the screen.
- You cannot record discs encoded with copy guard function. The following icon and text will show up on the TV screen.

DISC IS COPY PROTECTED

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. 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 SELECT

The DVD indicator will light.

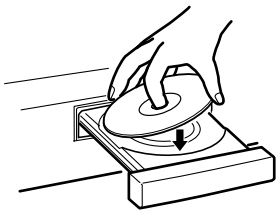
DVD

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.

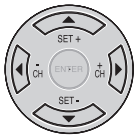
5 Press OPEN/CLOSE or PLAY on the unit.

⏏ OPEN/CLOSE OR ► PLAY

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.

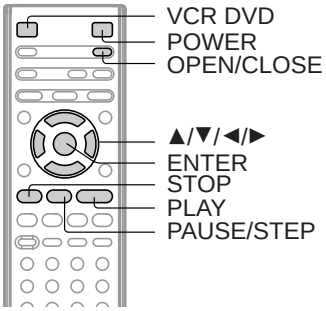
■ STOP

- 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**.

► 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 unit, you should generally reduce the sharpness adjustment on your TV when viewing DVD video discs.

■ **About** DVD VCD CD

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

DVD : You can use this function with DVD video discs.
VCD : You can use this function with Video CDs.
CD : You can use this function with Audio CDs and CD-R/RW CDs.

■ **To pause playback (still mode)**

Press **PAUSE/STEP** during playback.

PAUSE/STEP

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

- The sound is muted during still mode.

■ **To stop playback**

Press **STOP**.

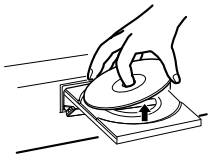
STOP

■ **To remove the disc**

Press **OPEN/CLOSE**.

OPEN/CLOSE

Remove the disc after the disc tray opens completely.



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

■ **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.
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.

■ **Screen saver function**

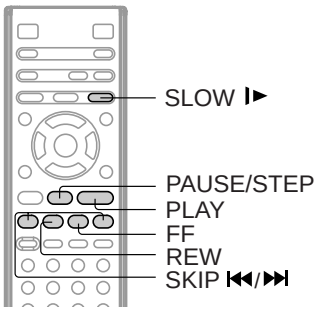
The screen saver operates when you leave the unit in DVD stop mode for approx. five minutes.
The screen will repeatedly get dark gradually and back to normal.

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 8 59.
- Some discs may take a minute or so to start playback.
- When you set a single-faced disc label downwards (i.e. the wrong way up) and press **OPEN/CLOSE** or **PLAY** on the unit, “Reading” will appear on the display for a few minutes and then “Incorrect Disc” will continue to be displayed.
- Some discs may not work the resuming facility.
- Resuming cannot function when you play a PBC-featured Video CD while the PBC is on. To turn off the PBC, see page 51.
- 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 unit during playback. Doing so may damage the disc.
- Use the **OPEN/CLOSE** to open and close the disc tray. Do not push the disc tray while it is moving. Doing so may cause the unit 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 unit 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 **POWER** on your remote control once the movie is completed.
- There may be a slight delay between you pressing the button and the function activating.

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 FF during playback.

REW ◄◄ FF ►►

REW: Fast reverse playback
FF: Fast forward playback

Each time you press **REW** or **FF**, the playback speed changes.

■ To resume normal playback

Press **PLAY**.

PLAY ►

Notes:
- The DVD/VCR mutes sound and subtitles during reverse and forward scan of DVD/VCD video discs. However, this unit 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/STEP during still playback.

PAUSE/STEP ❚❚/❚❚►

Each time you press **PAUSE/STEP**, the picture advances one frame.

■ To resume normal playback

Press **PLAY**.

PLAY ►

Note:
The sound is muted during frame by frame playback.

DVD VCD Playing in slow-motion

Press SLOW (I►) during playback.

SLOW I►

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

■ To resume normal playback

Press **PLAY**.

PLAY ►

Notes:
- 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 ►►I

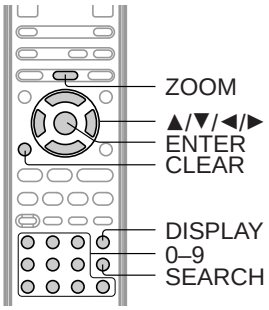
To locate succeeding chapters or tracks.

-INDEX SKIP I◄◄

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 cannot 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.

Zooming/Locating desired scene

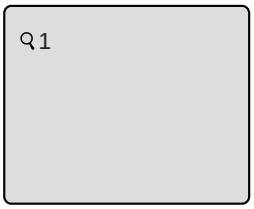


DVD VCD CD Zooming

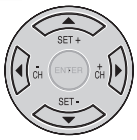
This unit will allow you to zoom in on the frame image. You can then make selections by switching the position of the frame.

1 Press ZOOM during playback.

The center part of the image will be zoomed in.
Each press of **ZOOM** will change the ZOOM 1 (x 1.3), 2 (x 1.5) and 3 (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 (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 DVD disc to locate the desired point to play back. In the case of VCD/CD discs, time and track are used to locate the desired point to play back. To check the title, chapter and time, press **DISPLAY**.

1 Press SEARCH during playback or stop mode.

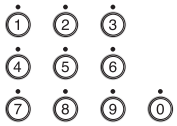
Time : --:--:-- --:--:--/--:--:--
Title : --- -/6
Chapter : --- -/-
▲▼/Enter/0–9/Clear/Search

- "Time" only works in resume stop mode.

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

Time : --:--:-- --:--:--/--:--:--
Title : --- -/6
Chapter : --- -/-
▲▼/Enter/0–9/Clear/Search

3 Press Number buttons (0–9) to change the number.



Time : --:--:-- --:--:--/--:--:--
Title : --- -/6
Chapter : 12– -/-
▲▼/Enter/0–9/Clear/Search

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

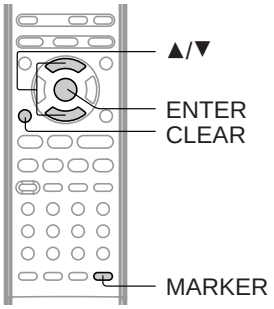
4 Press ENTER. Playback starts.

- 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 SEARCH does not work. To turn off PBC 51.

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

Marker 1 : ** :** :**
Marker 2 : ** :** :**
Marker 3 : ** :** :**
▲▼/Enter/Clear/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/Clear/Marker

3 **Press MARKER to remove this display.**

MARKER

DVD VCD Returning to the scenes

1 **Press MARKER during playback or stop mode.**

MARKER

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

3 **Press ENTER.**

Playback starts from the marked scene.

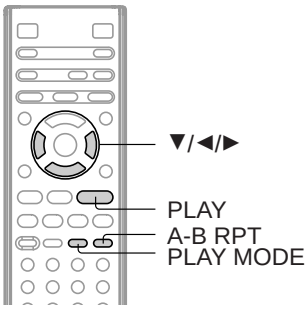
■ To cancel the Marker

Follow the above steps 1~2, then press **CLEAR**.

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

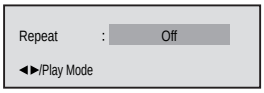


DVD VCD CD Repeat playback

1 **Press PLAY MODE during playback or stop mode.**

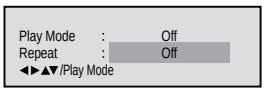
SP/SLP
PLAY MODE

2 **[DVD]**
Press ◀/▶ to select "Chapter" or "Title".



The unit automatically starts repeat playback after finishing the current title or chapter.

[Audio CD, Video CD, MP3/WMA CD]
Press ▼ to select "Repeat".
Press ◀/▶ to select "Track" or "All".



The unit automatically starts repeat playback after finishing the current track.

- If you set the repeat mode during stop mode, press **PLAY** to start Repeat playback.

3 **Press PLAY MODE again to make the screen disappear.**

■ To resume normal playback

Select Repeat : "Off" in step 2.

Notes:
- Some discs may not work with the repeat operation.
- In case of Video CD with PBC, repeat functions are prohibited during playback.

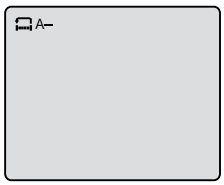
DVD VCD CD A-B Repeat playback

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

1 **Press A-B RPT during playback.**

A-B RPT

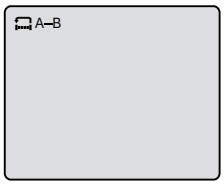
The start point is selected.



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.

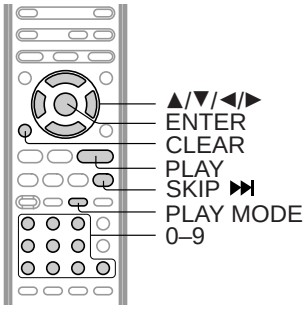
A-B RPT

"Off" appears on the screen.

Notes:
- In A-B Repeat mode, subtitles near the A or B locations may not be displayed.
- You cannot set the A-B Repeat for the scenes that include multiple angles.
- A-B Repeat playback does not work when Repeat playback is activated.
- You may not be able to set A-B Repeat, during certain scenes of the DVD.
- A-B Repeat does not work with an interactive DVD, MP3/WMA/JPEG CD.
- A-B Repeat is prohibited when PBC is on.

Program playback/Random playback

You can arrange the playback order of tracks or files on the disc. And also the unit selects tracks or files at random and playback them. These feature works for Audio CD, Video CD and MP3/WMA/JPEG CD.



VCD CD Program playback

1 **Press PLAY MODE during stop mode.**

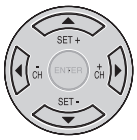
SP/SLP
PLAY MODE

Play Mode : Off
Repeat : Off
◄►▲▼/Play Mode

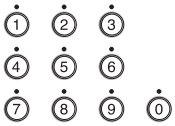
2 **Press ▲/▼ to select Play Mode, then press ◄/► to select "Program".**

Play Mode : Program
Repeat : Off
1 --- 4 --- 7 --- 10 ---
2 --- 5 --- 8 --- 11 ---
3 --- 6 --- 9 --- 12 ---
Clear Program Playback
◄►▲▼/Enter/0–9/Clear/Play Mode

3 **Press ▲/▼ or ◄/► to select the programming position. Use Number buttons (0–9) to input the track or file numbers.**



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

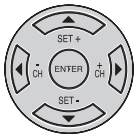


Play Mode : Program
Repeat : Off
1 9-- 4 --- 7 --- 10 ---
2 3-- 5 --- 8 --- 11 ---
3 11– 6 --- 9 --- 12 ---
Clear Program Playback
◄►▲▼/Enter/0–9/Clear/Play Mode

4 **Press ▲/▼/◄/► to select "Program Playback" and press ENTER.**

The programs you selected will start to playback in the order.

- In case of JPEG file, press **SKIP ►►I** to continue the program playback.
- To resume normal playback, select Play Mode: "Off" in step 2.



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/Clear/Play Mode

■ **To change the program**
1. In the program mode, press ▲/▼/◄ /► to select the track number.
2. Press **Number buttons (0–9)** to select the track number to be replaced.

■ **To clear the program one by one**
In the program mode, press ▲/▼/◄/► to select the track number. Then press **CLEAR**.

■ **To clear all the programs**
In the program mode, press ▲/▼/◄/► to select "Clear". Then press **ENTER**.

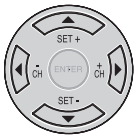
Notes:
- In playing back the Video CD with PBC, you cannot set Program playback.
- The program is cancelled when you open the disc tray or turn the power off.

VCD CD Random playback

1 **Press PLAY MODE during playback or stop mode.**

SP/SLP
PLAY MODE

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



Play Mode : Random
Repeat : Off
◄►▲▼/Play Mode

3 **Press PLAY.**

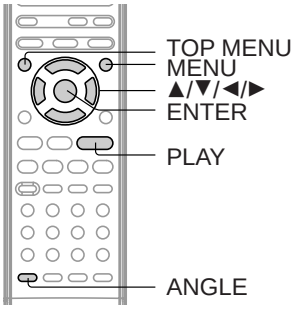
PLAY

The Random Playback will start.

- If you set "Random" during playback mode, Random playback will begin after the track that is currently being played has ended.
- To resume normal playback, select Play Mode: "Off" in step 2.

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

Changing angles/Title selection/DVD menu



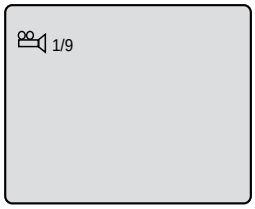
DVD Changing angles

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

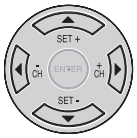
Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

1 **Press TOP MENU during playback.**

TOP MENU

Title menu appears on the screen.

2 **Press ▲/▼/◄/► to select the desired title.**



3 **Press ENTER or PLAY.**

The playback of the selected title will start.

PLAY

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 DVD menu

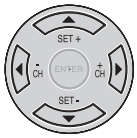
Some DVDs allow you to select the disc contents using the menu.
When you play back these DVDs, you can select the subtitle language and sound-track language, etc. using the menu.

1 **Press MENU during playback.**

MENU

The DVD menu appears on the screen.
- Press **MENU** again to resume playback at the scene when you pressed **MENU**.

2 **Press ▲/▼/◄/► to select the desired item.**

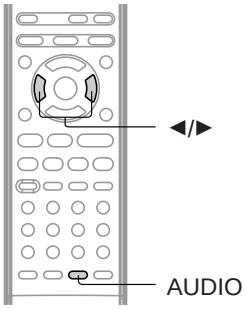


3 **Press ENTER.**

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

Note:
Depending on the DVD, you may not be able to resume playback from the scene point when you pressed **MENU**.

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
QSound Off

2 **Press AUDIO repeatedly until the desired language is selected.**

AUDIO SELECT
AUDIO

1/8 Eng Dolby Digital
QSound Off

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

■ In case of Video CD playback

Audio type changes as follows each time you press **AUDIO**.

LR QSound Off → L QSound Off → R QSound Off

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 video player equipped with a “QSound”. 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
QSound Off

2 **Press ◄ or ► to select “On”.**

1/8 Eng Dolby Digital
QSound On

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

■ To cancel Surround mode:

Follow the left steps 1~2, then press ◄ or ► to select the “Off” position.

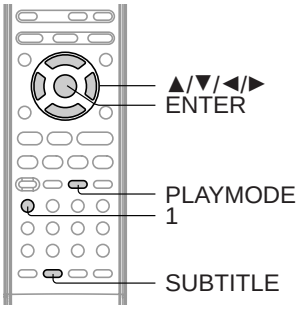
Notes:

- The “QSound” is effective only for the sound of disc.
- The QSound setting can also be changed in the function setting 58.

QSOUND®

Manufactured under license from QSound Labs, Inc. U.S. patent Nos. 5,105,462, 5,208,860 and 5,440,638 and various foreign counterpart. Copyright QSound Labs, Inc. 1998-2002. QXpander™ is a trademark of QSound Labs, Inc. All rights reserved.

Subtitles/To turn off the PBC



DVD Subtitles

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

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

ATR SUBTITLE

1/8 Eng

2 **To turn off the subtitle, press SUBTITLE until "Off" appears.**

ATR SUBTITLE

Off

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

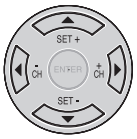
Notes:
- Depending on the DVD, you may not be able to change subtitles, or to turn subtitles on or off.
- While playing a DVD, the subtitle may change when you open or close the disc tray.
- In some cases, a selected subtitle language may not be changed immediately.

VCD To turn off the PBC

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

SP/SLP PLAY MODE

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



Play Mode : Off
Repeat : Off
◀▶▲▼/Play Mode

3 **Press PLAY MODE again to make the screen disappear.**

■ To turn on the PBC

Follow the above steps 1~2, then press ◀ or ▶ to select "PBC".

Note:
You can also turn off the PBC by pressing number button **1** and **ENTER** in the stop mode.

MP3/WMA/JPEG operation

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-RW drive and a MP3/WMA/JPEG-encoding Software (not supplied).
The Apple-HFS-System cannot be played.

Note:
This unit requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3/WMA files). Given the fact that technology in this area is still maturing, Toshiba cannot guarantee that all genre of recordable discs will produce optimal playback quality. The technical criteria set out in this owner's manual are meant as a guide only.
Please be advised that you must obtain permission from the applicable copyright owners to download copyrighted content, including music files, in any format, including the MP3 and WMA formats, prior to the downloading thereof. Toshiba has no right to grant and does not grant permission to download any copyrighted content.

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".
- MP3/WMA/JPEG CD must be correspond to the ISO standardized files.
- This unit can read 600 files per disc. If one directory has more than 600 files, it reads up to 600 files, the remaining files will be omitted.
- The unit is able to recognize up to a maximum of 50 directories per disc.
- MP3/WMA/JPEG CDs cannot be used 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.

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.

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

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

Standard, sampling frequency, and the bit rate:
MP3 CD
MPEG-1 Audio
32kHz, 44.1kHz, 48kHz
32kbps ~ 320kbps (constant bit rate or variable bit rate)
The recommend recording setting for a high-quality sound is 44.1kHz of sampling frequency and 128kbps of constant bit rate.
WMA CD
WMA version 7, and 8
32kHz, 48kbps
44.1kHz, 48kbps ~ 192kbps
48kHz, 128kbps ~ 192kbps
The file recorded by mono, 48kHz, 48 kbps is not available to this unit.

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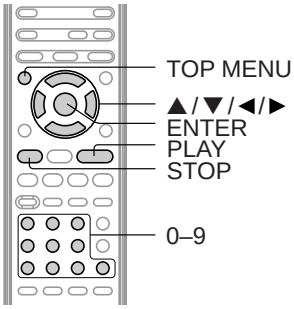
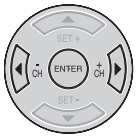
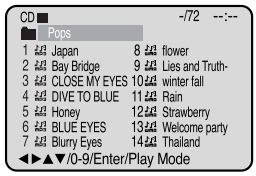


CD MP3/WMA CD playback

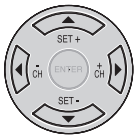
1 **Place a disc on which MP3 or WMA files have been recorded onto the disc tray.**

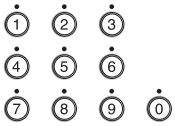
2 **A file menu screen will appear on the screen. Press ◄/► or ENTER to select folder.**



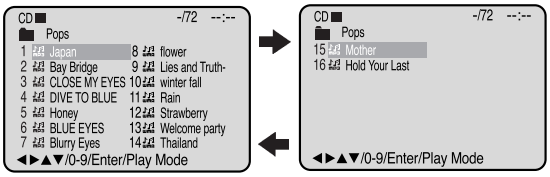


3 **Press ▲/▼/◄/► or Number buttons (0–9) to select the desired file.**





- In case the folder includes more than 15 files, press ◄ or ► to display next file list.



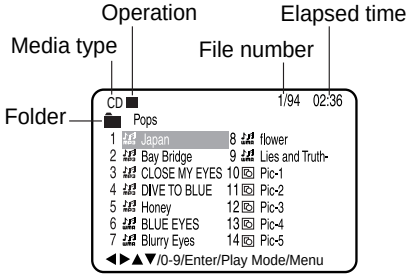
- When **PLAY** has been pressed after displaying the file menu, or when the disc tray has been closed using **PLAY**, playback begins automatically starting from the first file. In this case, if the first file is an MP3/WMA file, only MP3/WMA files are played back in order. If the first file is a JPEG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

4 **Press ENTER.**
The selected file starts playing 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.

About file menu



: Indicates MP3-file

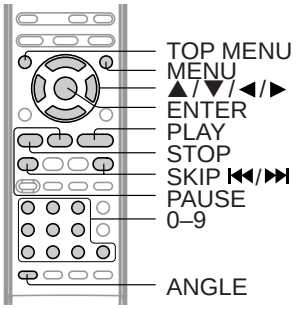
: Indicates WMA-file

: Indicates JPEG-file

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**.
- 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.
- MP3 or WMA file on the Kodak Picture CD is not recognized on this unit.

Notes:
- During MP3/WMA/JPEG-Playback, you cannot use SEARCH, A-B Repeat functions.
- You can use Repeat (Track or All), Random functions and Program playback for MP3/WMA/JPEG CD Playback 47 48.

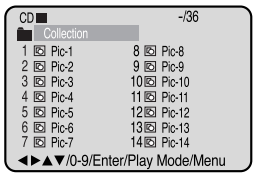
MP3/WMA/JPEG operation (continued)



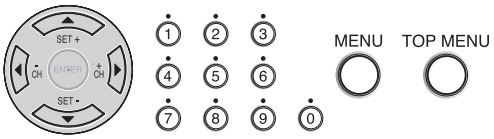
CD JPEG CD playback

1 **Place a disc on which JPEG files have been recorded onto the tray.**

2 **A file menu screen will appear on the screen. Press ◄/► to select folder.**

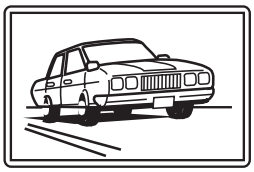


3 **Press ▲/▼/◄/► or Number buttons (0–9) to select the desired file.**
To display a picture menu, press **MENU**.
(To return to a file menu, press **TOP MENU**.)
Press ◄/► or ▲/▼ to select the desired file.



- To display next list, press **SKIP** ⏮/⏭.
- When **PLAY** has been pressed after displaying the file menu, or when the disc tray has been closed after pressing **PLAY**, 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.

4 **Press ENTER. The selected picture appears on the screen.**



Rotating an image
You can rotate an image by 90 degrees by pressing **ANGLE** during playback of the image.
"", "", "" or "" appears briefly on the screen.

5 **Press STOP to end playback.**
The file menu appears on the screen.
If you want to watch the other file, repeat steps 3 ~ 4.

STOP

CD Slide show playback

The slide show enables you to view pictures (files) one after another automatically.

Preparation:
Set "JPEG Interval" setting to "5 Seconds", "10 Seconds" or "15 Seconds" 58.

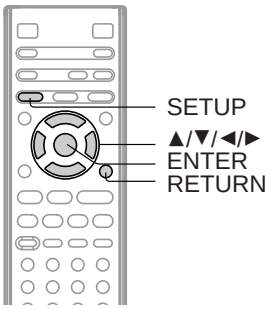
1 **Select your desired starting file for the slide show in the step 3 as left.**

2 **Press ENTER to start slide show from the selected file.**

- If you press **PAUSE** during the slide show, the slide show stops temporary. " **II** " appears briefly on the picture.
  If the picture appears upside down or sideways, press **ANGLE** repeatedly until it's right side up.
  "", "", "" or "" appears briefly on the screen.
  Press **PLAY** or **SKIP** ⏭ again to resume the slide show.
- When the slide show playback finished the file list appears.
- To stop the slide show, press **STOP**. The file list appears.

Customizing the function settings

You can change the default settings to customize performance to your preference.

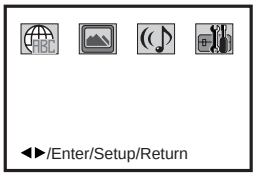


DVD VCD CD Setting procedure

1 Press SETUP during stop mode.

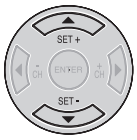
VCR MENU SETUP

The following on-screen display appears.



2 Press ◄ or ► to select the desired section, then press ▼ or ENTER.

3 Press ▲ or ▼ to select the desired option.



4 Change the selection using ◄ or ►, by referring to the corresponding pages 57~59.

- Repeat steps 3 and 4 to change other settings.
- To select another operation, go back to step 2 by pressing ▲ repeatedly.

5 To make SETUP screen disappear, press SETUP or RETURN.

VCR MENU SETUP

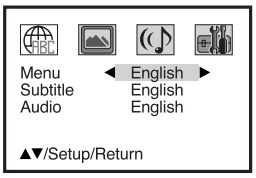
RETURN

Customizing the function settings (continued)

Setting details

Section	Option	Details	Page
	Menu **Subtitle** **Audio**	To select the language of “Menu”, “Subtitle” and “Audio” if more than one language are available on the disc.	57
	E.B.L.	To select On or Off for E.B.L. (Enhanced Black Level).	57
	Tv Screen	To select a picture size according to the aspect ratio of your TV.	57
	Display	To turn on or de-activate the operational status display on the screen.	57
	Picture Mode	To select a preferred picture mode from “Video”, “Film” or “Auto”.	58
	JPEG Interval	To select a preferred setting for the slide show playback.	58
	Dialogue	To select On or Off for DRC (Dynamic Range Control).	58
	QSound	To select On or Off for QSound.	58
	Password	Input 4-digit password to set the parental level.	59
	Parental	To select a preferred parental level for the parental setting.	
	Select Files	To select a preferred file type for playing back a CD containing a mixture of file types.	
	Output	To select a preferred video output signal from “Progressive” or “Interlace”.	

2H20101A (E)p56-59 56 2/1/05, 7:55 PM



■ Menu, Subtitle, Audio

You can select the language of “Menu”, “Subtitle” and “Audio” if more than one languages are recorded onto the disc.

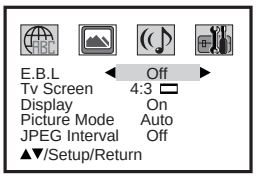
English, Francais, Espanol:
The selected language will be heard or seen.

Other:
Other language can be selected (see the “Language code list” 61).

Original: (Audio)
The unit will select the first priority language of each disc.

Off: (Subtitle)
Subtitles do not appear.

Notes:
- If the selected language is not recorded on the disc, the first-priority language is selected.
- If you want to change the OSD language, you can perform it by TV MENU 23.



■ E.B.L.

To select the black level of playback pictures, set your preference and monitor’s ability.

On: Enhanced grey scale (0 IRE cut off)
Off: Standard grey scale (7.5 IRE cut off)

■ Tv Screen

You have the following screen sizes to choose from:

4:3 ▭ (Letter box):
Select this mode when connecting to a conven tional 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.

Press **OPEN/CLOSE** to view in the selected screen size.

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

■ Display

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

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

Customizing the function settings (continued)

Setting details

■ Picture Mode

There are two types of source content in pictures recorded in DVD video discs: film content (pictures recorded from films at 24 frames per second) and video content (video signals recorded at 30 frames per second). Make this selection according to the type of content being viewed.

Auto: Select this position normally.
The DVD player automatically detects source content, film or video, of playback source, and converts that signal in the progressive output format in an appropriate method.

Film: The DVD player converts film content pictures in the progressive output format appropriately. Suitable for playback of film content pictures. The progressive output feature will be most effective under this selection.

Video: The DVD player filters video signal, and converts it in the progressive output format appropriately.
Suitable for playback of video content pictures.

Note:
Depending on the disc, pictures may be cut off or doubled. In this case, select “Video”.

■ JPEG Interval

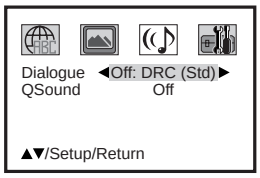
You can continuously play back all JPEG files automatically.
After the setting below, start playing the disc on which JPEG files have been recorded.

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.



■ Dialogue

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

On: DRC (TV):
Loud sound such as explosion or similar is toned down slightly when played back. This makes it suitable for when it is connected to a stereo.
Off: DRC (Std):
It plays back at the recording level on the disc.

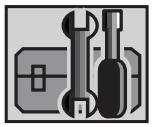
Notes:
- This function works only during playback of Dolby Digital recorded discs.
- The level of Dynamic Range Reduction may differ depending on DVD video disc.

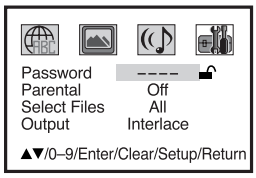
■ QSound

This DVD video player equipped with a “QSound”. It can produce the effect of being in a cinema or a concert hall.

On: The QSound operates.
Off: The QSound is disengaged.

Note:
The QSound setting can also be changed with **AUDIO** on the remote control 50.





■ Parental control setting

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

1) Press ▲ or ▼ to select “Parental”, then press ◄ or ► until the level you require appears.
   - **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.
2) Press ▲ or ▼ to select “Password”.
   Press **Number buttons (0–9)** to input a 4-digit password. Be sure to remember this number!
   - If you input a wrong number, press **CLEAR**.
3) Press **ENTER** to store the password.
   Note: Now the rating is locked and the setting cannot be changed unless you enter the correct pass word.
4) Press **OPEN/CLOSE** to activate Parental control setting. (See “Temporary disabling of rating level by DVD disc” 60.)

Notes:
- 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

1) Press ▲ or ▼ to select “Password”.
2) Press **Number buttons (0–9)** to enter the password you have stored.
3) Press **ENTER**.
   - The rating is now unlocked.
4) Press ▲ or ▼ to select “Parental”, then press ◄ or ► to change the parental level.
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.
6) Press **ENTER**.
   Now the parental level is changed and locked.

If you forget the password...
1. Press **OPEN/CLOSE** to open the disc tray.
2. Remove the disc.
3. Press **OPEN/CLOSE** again to close the disc tray. “No Disc” appears on the screen.
4. While holding **STOP** down on the front panel, press **7** on the remote control. “PASSWORD CLEAR” appears on the screen.
5. Enter a new password again.

■ 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.

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

■ Output

You can select the video output signal of the DVD video player to the TV from “Interlace” or “Progressive”.

1) Press ▲ or ▼ to select “Output”.
2) Press ►, then press ▲ or ▼ to select “Interlace” or “Progressive”.
   Interlace:
   Select when connecting to a composite TV or a TV equipped with component video inputs but progressive scan is not compatible.
   Progressive:
   Select when connecting to a TV equipped with component video inputs, progressive scan compatible.
3) Press **ENTER**.

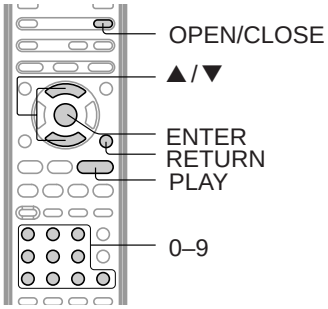
Warning:
Once “Progressive” is selected when connecting to a TV progressive scan incompatible, no image will be seen on the video display.
In this case, you must reset the unit by pressing **STOP** on the front panel for five seconds. The video output will be restored to “Interlace” setting, and a picture will once again be seen on a conventional analog display.

Notes:
- Some discs may not be played back with the progressive scanning mode correctly because of the disc characteristics or recording condition.
- Once Progressive scan on, all other video outputs are disabled except component video outputs.

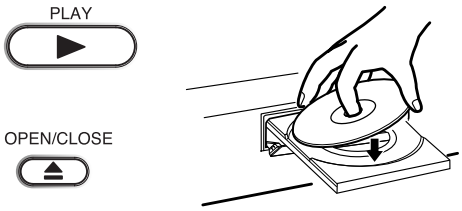
Note:
If each setup (pages 57~59) has been completed, the unit can always be worked under the same conditions (especially with DVD discs).
Each setup will be retained in the memory even if you turn the power off.

Temporary disabling of rating level by DVD disc

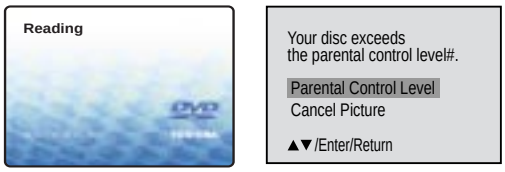
Depending on the DVD disc, the disc may try to temporarily cancel the rating level that you have set.
It is up to you to decide whether to cancel the rating level or not.



1 **Load a DVD disc and press PLAY or OPEN/CLOSE on the unit** 42**.**



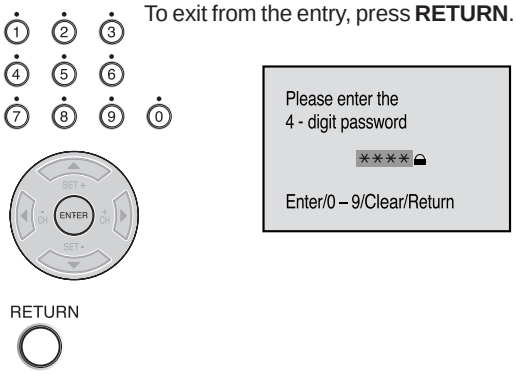
2 **If the DVD disc has been designed to temporarily cancel the Rating level, the screen which follows the "Reading" screen will change, depending on which disc is played. If you select "YES" with the ENTER key, "Your disc exceeds the parental control level#." screen will then appear.**



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 59 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.**

To exit from the entry, 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.

Language code list

Enter the appropriate code number for the initial settings “Menu”, “Subtitle” and/or “Audio” 57.

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

Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the symptoms and some solutions.

Symptoms	Solutions	Page
DVD/VCR		
DVD/VCR does not operate.	• Make sure the power cord is plugged in. • Try another AC outlet. • Unplug unit, then plug it back in. • Select the DVD or VCR mode before operating.	5 – 5 30,42
No picture.	• 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.	• 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.	• Aim 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 Cable TV reception.	• Check all Cable TV connections. • Station or Cable TV system problems, try another station.	16,17
VCR		
TV recording does not work.	• 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.	• The time is not set correctly. • The recording start/end time is not set correctly. • The TIMER REC has not been pressed (⊡ is not lit).	24 37 37
Noise bars on screen.	• 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.	• Select proper language in the menu options.	57
Playback doesn't start.	• No disc is inserted. • The disc may be dirty. Clean up the disc. • The unit cannot play DVD-ROMs, etc.	42 7 8
Stopping playback, slow-motion play, repeat play, or memory play, etc. cannot be performed.	• Some discs may not do some of the functions.	–
No picture, or the screen is blurred or divided into two parts.	• The PROGRESSIVE scan is "On" although the unit is connected to a TV via the VIDEO OUT or the S-VIDEO OUT jack.	59
No 4:3 (16:9) picture.	• The setup does not match your TV.	57
No on-screen display.	• Select Display "On".	57
No surround sound.	• The setup does not match your stereo system.	20
The unit or remote operation key is not functioning.	• 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.	• Check the Parental setup.	59,60
Audio soundtrack and/or subtitle language is not changed when you play back a DVD.	• Multilingual language is not recorded on the DVD disc.	50,51
No subtitle.	• Some discs have no subtitles. • Subtitles are cleared. Press SUBTITLE.	51
Angle cannot be changed.	• Multi-angles are not recorded on the DVD disc.	49
✋ appears on the screen.	• The function is prohibited with the unit or the disc.	44

Specifications

General

Power supply	AC 120 V 60 Hz
Power consumption	Operation: 18 W, Stand by: 2 W
Weight	7.7 lbs (3.5 kg)
Dimensions	Width: 16-15/16 inches (430 mm) Height: 3-1/2 inches (89.5 mm) Depth: 9-1/16 inches (230 mm)
Tuner	181 channel freq. synthesized VHF 2-13 UHF 14-69 Cable TV 113 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 90dB
FF/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 (ANALOG)	–12 dBm, 1 kΩ, pin jacks (L, R) x 1

Supplied accessories

Audio/video cable 1
Remote control (SE-R0170) 1
Batteries (R03/AAA) 2
75 Ω coaxial cable 1

- This model complies with the above specifications.
- Designs and specifications are subject to change without notice.
- This model may not be compatible with features and/or specifications that may be added in the future.

Limited warranty

Limited United States Warranty
DVD Players - Exchange Warranty
Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States. **THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS DVD PLAYER AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.**

PRODUCTS PURCHASED IN THE U.S.A. AND USED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

PRODUCTS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, AND USED IN THE U.S.A., ARE NOT COVERED BY THESE WARRANTIES.

Limited Ninety (90) Day Warranty
TACP warrants this DVD Player and its parts against defects in materials or workmanship for period of ninety (90) days after the date of original retail purchase. **DURING THE FIRST NINETY (90) DAYS AFTER THE DATE OF ORIGINAL RETAIL PURCHASE, TACP WILL EXCHANGE A DEFECTIVE DVD PLAYER WITH A NEW OR REFURBISHED DVD PLAYER WITHOUT CHARGE TO YOU. YOU MUST CONTACT TACP'S CONSUMER SOLUTIONS CENTER FOR INSTRUCTIONS ON HOW TO PROCESS YOUR IN WARRANTY EXCHANGE REQUEST. THE CONSUMER IS RESPONSIBLE FOR ALL INBOUND TRANSPORTATION AND INSURANCE CHARGES FOR THE DVD PLAYER TO THE EXCHANGE CENTER. DURING THE PERIOD THAT COMMENCES ON THE DATE THAT IS NINETY ONE (91) DAYS AFTER THE DATE OF ORIGINAL RETAIL PURCHASE AND BEYOND, TACP WILL EXCHANGE A DEFECTIVE DVD PLAYER WITH A NEW OR REFURBISHED DVD PLAYER FOR A NOMINAL FEE. YOU MUST CONTACT TACP'S CONSUMER SOLUTIONS CENTER FOR INSTRUCTIONS ON HOW TO PROCESS YOUR EXCHANGE REQUEST. THE CONSUMER IS RESPONSIBLE FOR ALL INBOUND TRANSPORTATION AND INSURANCE CHARGES FOR THE DVD PLAYER TO THE EXCHANGE CENTER.**

*** Rental Units**
The warranty for rental units begins with the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

*** Commercial Units**
DVD Players sold and used for commercial purposes have a limited ninety (90) day warranty for all parts and labor.

Owner's Manual and Product Registration Card
Read this owner's manual thoroughly before operating this DVD Player. Complete and mail the enclosed product registration card or register your product online at www.tacp.toshiba.com/service as soon as possible. By registering your DVD Player you will enable TACP to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event that a safety notification is required under the Consumer Product Safety Act. Failure to complete and return the product registration card does not diminish your warranty rights.

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) All warranty servicing of this product must be made by an Authorized TACP Service Station.

(3) The warranties from TACP are effective only if the product is purchased and operated in the Continental U.S.A. or Puerto Rico.

(4) Labor service charges for set installation, setup, 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.

(5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any DVD Player or parts that have been lost or discarded by you or to damage to the DVD Player or parts caused by fires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP; use or malfunction through simultaneous use of this product and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

How to Obtain Warranty Services
If, after following all of the operating instructions in this manual and checking the section "Troubleshooting," you fund that service is needed:

(1) For instructions on how to obtain warranty service for exchange program DVD Players, contact TACP's Call Center toll free at 1-866-583-7353.

(2) You must include the original bill of sale (or a copy of the original bill of sale) or other proof of purchase along with the entire DVD Player when sending the DVD Player to the Authorized TACP Service Station specified by TACP's Call Center. You must pay for all transportation and insurance charges for the DVD Player to and from the Authorized TACP Service Station.

For additional information, visit TACP's website: www.tacp.toshiba.com

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