DRAFT

TOSHIBA

Hi-Fi VCR & DVD VIDEO RECORDER

D-VR4XSU

OWNER'S MANUAL

VHS Hi-Fi

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

SAFETY PRECAUTIONS

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.

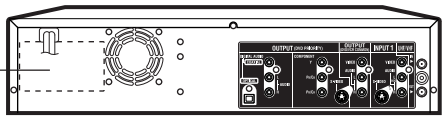
TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS USER'S GUIDE CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION.

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.

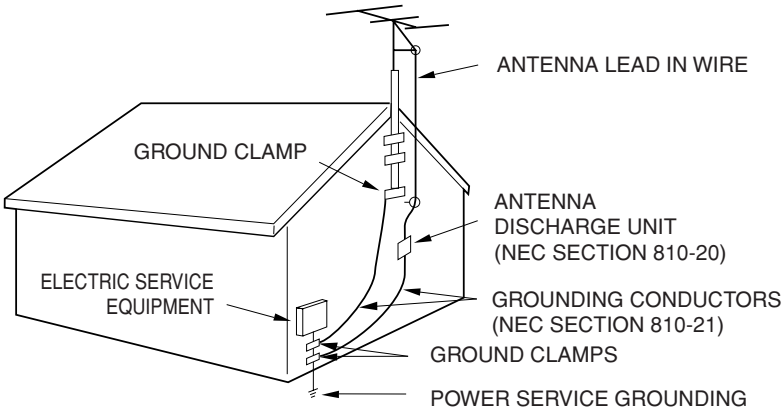
16. OBJECT AND LIQUID ENTRY

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.

IMPORTANT SAFEGUARDS

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.

CONDENSATION

Moisture will form in the operating section of the DVD/VCR if the unit is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, the DVD/VCR's performance will be impaired.
To prevent this, let the DVD/VCR stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.
Condensation may also form during the summer if the DVD/VCR is exposed to the breeze from an air conditioner. In such cases, change the location of the DVD/VCR.

* This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
  Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 progressive scan picture problems, it is recommended that the user switch the connection to the "STANDARD DEFINITION" output. If there are questions regarding our TV set compatibility with this model 525p DVD player, please contact our customer service center.
* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
* "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
* Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.
* Windows Media and the Windows logo are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

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Introduction

Media mark

Each applicable media are indicated using the symbol shown below.

DVD	: DVD-Video	R	: DVD-R
VR	: DVD-RW in VR mode	CD	: Audio/Video CD and CD-R/CD-RW
VIDEO	: DVD-RW in Video mode	VCR	: Video tape
RAM	: DVD-RAM		

2H5-01 P02-07 7 7/20/05, 20:45

Features

Not only you can playback and record video tapes, but you can also playback DVD discs or make recordings using DVD-RAM, DVD-RW or DVD-R discs with this unit. In addition, you can enjoy editing the programs you record.

Playback function

A realistic, powerful, Movie Theater sound

DVD

When connected to Dolby Digital and DTS compliant devices, you can enjoy realistic, powerful surround sound.

Playback the scene you want to see immediately

DVD RAM VR VIDEO R

As DVD's do not require rewinding like video tapes, you can get to the scene you wish to watch immediately. A variety of search functions allow you to find the scene you wish to watch.

Title menu

RAM VR VIDEO R

As thumbnail images are displayed in the title menu, you can find the title you want to play back quickly.

- Thumbnail image will not appear after finalizing DVD-RW (recorded in the Video mode) and DVD-R.

Video CD/SVCD/MP3/WMA/JPEG playback

CD

Video CD/SVCD/MP3/WMA files can be played back. You can also display JPEG files on the TV screen and enjoy them as a slide show.

Progressive scan

DVD RAM VR VIDEO R

This unit supports the progressive scanning system. If your TV is equipped with component video input jacks which support the progressive video input, you can enjoy a high quality picture.

Chase playback

RAM

You can start playback from the beginning of a program currently being recorded. You will find this function of great advantage on long programs, as you do not have to wait for the end of recording to start playback.

Recording function

Timer recording

RAM VR VIDEO R VCR

The timer recording system allows you to select the date, time and channel and record the desired programs. Up to 12 timer programs within a month can be stored in this unit.

One-touch Timer Recording (OTR)

RAM VR VIDEO R VCR

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

Edit function

Editing recorded material without changing the original titles

RAM VR

You can create a playlist based on the original titles. The playlist won't affect the original titles. If you erase the playlist, the original titles remain. It is recommended to create and edit the playlist to prevent important titles from being erased accidentally.

Chapter mark

RAM VR

You can add (or delete) a chapter mark to (from) the original title. This function is useful when searching for the scene you wish to watch that you have marked with the Chapter mark function.

Erasing scenes

RAM VR

You can erase an unnecessary scene from the created playlist or the original titles.

Combining titles

RAM VR

You can combine several original titles or playlists to a separate playlist.

Dubbing function

Dubbing a videotape onto a disc or a disc onto a videotape

RAM VR VIDEO R VCR

With this unit, you can dub whatever you like, from video tape to disc or from disc to video tape.

- Dubbing cannot be carried out when attempting to copy a "copy guarded" video tape or disc.

Disc

Handling discs

Removing the disc from its case

Be sure to hold the disc by its edges.
Do not touch the surface of the disc.
Take the disc carefully from its case.

- Do not scratch the disc.
- Do not get dirt on the surface of the disc.
- Do not stick labels or adhesive tapes on the disc.
- Do not drop or bend the disc.

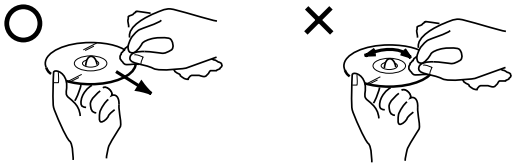
Storing discs

- Store the disc in the case to avoid any risk of scratches, dirt or damage.
- Do not leave the disc exposed to direct sunlight or in hot or humid places.

Cleaning discs

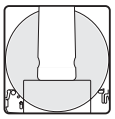
Wipe the disc with a clean, dry cloth from the center outward toward the edges.

- Do not wipe the disc in a circular motion around the center.
- Do not use liquid or aerosol cleaners.

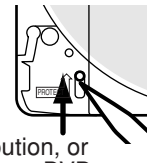


DVD-RAM discs with cartridges are recommended for recording.

- Two types of DVD-RAM discs are available: ones with cartridges and ones without cartridges. You can use either of them with this recorder, but the former ones are recommended.
- In order to record highly detailed data, make sure the disc is clean. DVD-RAM discs with cartridges are easier to handle in this regard.
- Do not open the cartridge shutter. The disc may not play, or may not be recorded or edited once it becomes dirty.



- There are two types of DVD-RAM cartridges: removable (TYPE 2/4) and non-removable (TYPE 1).
  It is recommended not to remove the disc even when you can.
  Refer to the instruction manual that comes with the disc if it is absolutely necessary to remove the disc.
- Some commercially available cartridge discs cannot be recorded or edited once the inside discs are removed.
- **To protect recorded contents**
  Slide the write-protect tab to "PROTECT" with something small enough. The disc can play, but cannot be edited or erased. Refer to the instructions that come with the disc.



Notes on copyright

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and other materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability.

Discs which can be played back

For this unit, use only discs that meet the standard, such as those bearing the right above logo marks on the disc label surface. If you use a non-standard disc, we cannot guarantee playback. Even if such a disc can be played back, we cannot guarantee the image or sound quality. The DVD logo is a registered trademark.

Media type	Logo mark
DVD-Video	DVD VIDEO
DVD-RAM Ver.2.0 Ver.2.1	DVD RAM
DVD-RW Ver.1.0 Ver.1.1 Ver.1.2 Ver.1.1CPRM support	DVD RW
DVD-R Ver.2.0(Ver.2.0/4x/8x)	DVD R R4.7
Audio CD*	COMPACT disc DIGITAL AUDIO
Video CD SVCD	disc DIGITAL VIDEO
CD-R/CD-RW	COMPACT disc Recordable / COMPACT disc ReWritable

* This unit is designed to playback music Compact Discs (CD) that conform to the CD standard. CDs that contain (copy-restriction) signals to protect copyrights cannot be played back.

Notes on DVDs and Video CDs

Because of problems and errors that can occur during the creation of DVD and Video CD software and/or the manufacture of DVD and Video CD discs, Toshiba cannot guarantee that this DVD/VCR will play every feature of every DVD bearing the DVD logo and/or every Video CD bearing the CD logo. As one of the creators of DVD technology, Toshiba DVD players are manufactured using the highest standards of quality, and as a result, such incompatibilities are rare. If you happen to experience any difficulty playing a DVD or a Video CD on this DVD/VCR, please feel free to call our Consumer Solution Center (see page 90).

Region management information

This unit is designed and manufactured to support the region management information that is recorded on a DVD disc. If the region number written on the DVD disc does not correspond to the region number of this unit, this unit cannot play that disc.

- The region number of this unit is "1".
- The unit will play DVD-Video discs marked with labels containing "1" or "ALL".

Example: 1 ALL

Operating DVD-Video

- Some operations of DVD-Video may be prohibited by the manufacturer, or some operation methods or functions of the DVD-Video may be different from the description in this manual.
- If you attempt an operation that is prohibited by either the disc or the unit, a "" mark will appear on the TV monitor. For operations prohibited by the disc, see the information that come with the disc.
- When the menu screen or the operation guide appears during disc playback, follow the displayed information.

Discs which cannot be played back

The discs listed below cannot be played back in general. Even if one of these can be played back, it may not be played back correctly. If a disc is played back by mistake, extensively loud sounds may blow the speakers or may damage the hearing of those in hearing range. Do not playback the discs listed below.

CDG, Photo-CD, CD-ROM, CD-TEXT, CD-EXTRA, SACD, PD, CDV, DVD-ROM, DVD+R/RW, DVD audio, etc.

Disc

The below DVD-Video may not be played back.
- DVD-Video that do not have the region number "1" or "ALL".
- PAL or SECAM DVD-Video.
- Prohibited or business-use DVD-Video.

CD-R/CD-RWs cannot be played back for the following reasons.
- Compatibility of the disc and this unit.
- Compatibility of the disc and the recorder used.
- Unfinalized discs.

Do not playback the following discs. Playback of these discs may cause a failure.
- Discs on which paper, labels or stickers are affixed.
- Discs that have sticky areas left by adhesive tape.
- Special-shaped discs.

Discs on which video can be recorded

To record video with this unit, use the discs below:

Media type	Logo mark
DVD-RAM Ver.2.0 Ver.2.1	DVD RAM
DVD-RW Ver.1.0 Ver.1.1 Ver.1.2 Ver.1.1CPRM support	DVD RW
DVD-R Ver.2.0 (Ver.2.0/4x/8x)	DVD R 4.7

DVD-RAM
- Use only DVD-RAM discs that comply with DVD-RAM standard Version 2.0 or 2.1.
  The recorder cannot record on a disc formatted in any other standard. When using such a disc, initialize it by using the disc-format function of this recorder.
- The recorder may not record, dub, or edit some DVD-RAM discs because they are edited/recorded with another manufacture's equipment or PC, contain a large number of titles, or have little remaining capacity. Also, a DVD-RAM disc may not be edited or recorded if its title contains still pictures.
- When you load a DVD-RAM disc for PC, "INCORRECT DISC"may appear on screen. In this case, please format the disc to use with this recorder.
- When you load a DVD-RAM disc for PC, "INCORECT DISC" may appear on screen. In this case, please format the disc to use with this recorder.
- DVD-RAM discs formatted in UDF2.0 on a PC may be incompatible with this recorder. Before using these discs, initialize them on this recorder.
- This recorder complies with current copyright protection technology and can copy a disc only when the disc permits copying once. When there is no indication on the disc, copying will not be allowed. Such an indication on a disc is required also for the Library Management database.

DVD-RW
- The disc can be erased and used again about 1,000 times.
- Only the VR mode can be used for Ver.1.0 discs.
- With Ver.1.1/1.2 discs, you can record by selecting the VR mode or Video mode.
- When you record in the VR mode, you can record and erase repeatedly. By erasing unnecessary titles, you effectively increase remaining time.
- When you record in the Video mode, you can record until the disc becomes full.
- When you use the Video mode, you can newly record on the disc by formatting the disc. However, if the disc is formatted, all the recorded contents will be erased.

DVD-R
- You can record on the disc only in the Video mode.
- You can record until the disc becomes full.
- Finalizing the discs allows playback on other DVD players. However, the finalized discs can no longer be recorded.
- Discs can be recorded repeatedly until they are finalized.
- Only titles that were recorded under video mode can be played. However, titles recorded onto a CPRM compatible disc in the VR mode cannot be played.

NOTES:
- There are some players that cannot playback discs that were recorded with this unit. We cannot guarantee the playback with other units.
- This unit cannot record on DVD-RAM/RW/R discs that are 8 cm in diameter.
- This unit cannot record on CD-RW/R.

Recording format

This unit has two modes for formatting discs for recording: VR mode and Video mode.
When a blank new disc is loaded into this unit, the automatic format function starts to format the disc. (For the disc format setting in this step, see page 29.)

VR mode
- This mode can be used for DVD-RAM/-RW.
- In this mode, the discs can be recorded and edited repeatedly.
- The disc recorded in this mode can be played back with other DVD-RW-compatible players.
- When a Ver.1.1 CPRM or Ver. 1.2 disc is used, you can record a "Copy Once" program (see page 51).

Video mode
- This mode can be used for DVD-R and DVD-RW (Ver.1.1/1.2).
- When you finalize the disc after recording, the disc recorded with this unit can be played back with other DVD players.
- Recording, editing or playback of an unfinalized disc can be done only with this unit. However, there are some limitation to editing operations.
- In this mode, you cannot record a "Copy Once" program (see page 51).
- When you record a TV program of a bilingual broadcast, only one of the audio modes can be recorded. You have to select it.

Format modes that can be used with each disc

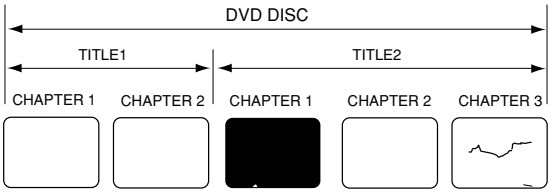
The usable format depends on the media type as shown in the below table.

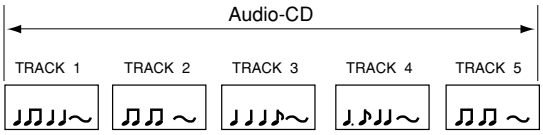
Media type	Format	Available functions
DVD-RAM (Ver.2.0/2.1)	VR mode	Playback, recording and editing (Original/playlist)
DVD-RW (Ver.1.0)	VR mode	Playback, recording and editing (Original/playlist)
DVD-RW (Ver.1.1 and 1.2)	VR mode	Playback, recording and editing (Original/playlist)
	Video mode	Playback and recording Editing (with limitation)
DVD-R (Ver.2.0/4x/8x)	VR mode	Playback (with limitation)
	Video mode	Playback and recording Editing (with limitation)

Disc

Title/Chapter/Track

A DVD-Video has large partitions called “Titles”, and smaller partitions within them called “Chapters”.
A music CD has other partitions called “Tracks”. A number is allotted to each partition and these numbers are called “title numbers”, “chapter numbers” or “track numbers”.





When recording in the VR mode

One-time recording is set to 1 title (1 chapter). However, if you stop recording temporarily or erase scenes by editing, the chapter will automatically be partitioned. The interval between chapters can be specified. (See page 29.)

When recording in the Video mode

One-time recording is set to 1 title. In recording, chapters are set automatically. The interval between chapters can be specified. (See page 29.)

NOTES:

- The title, chapter and track are numbered, but some discs may not record the numbers.
- Recording on DVD-R/RW in the Video mode is a new standard approved at the 2000 DVD forum. Conformity to this standard varies with each DVD player manufacturer. Some models of DVD player or DVD-ROM drive, therefore, will not playback recorded videos.

Disc playback in other players

DVD-RW/R recorded in this unit can be finalized. The disc can be played back in other players that can playback DVD-RW and DVD-R.
For more information on finalization, see “Finalize” in “Setting the Disc” (page 30).

When recording in the VR mode

Even if a DVD-RW disc recorded in the VR mode is finalized, you can record or edit by cancelling the finalization. (See “Finalize” on page 30.)
When you playback the disc with another player, make sure that the DVD player supports DVD-RW.

When recording in the Video mode

When a disc recorded in the Video mode is finalized, it cannot be recorded onto any mode. Therefore, before finalization, be sure to perform all desired recording. After finalization, a title list that can be used by the DVD player is automatically created.

NOTES:

- The finalization process may require from a few minutes up to 1 hour depending on the disc type and the amount of free space on the disc.
- A DVD-RW Ver.1.1/1.2 recorded in the Video mode cannot be recorded or edited after finalization. But if you format the disc by erasing all the content, you can record on this disc again.
- A finalized disc may not play because of the condition of the DVD or the compatibility with the player used for playback.
- Some players may not playback the discs recorded with this unit. We cannot guarantee the playback using other players.

On Video CDs

This DVD 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.

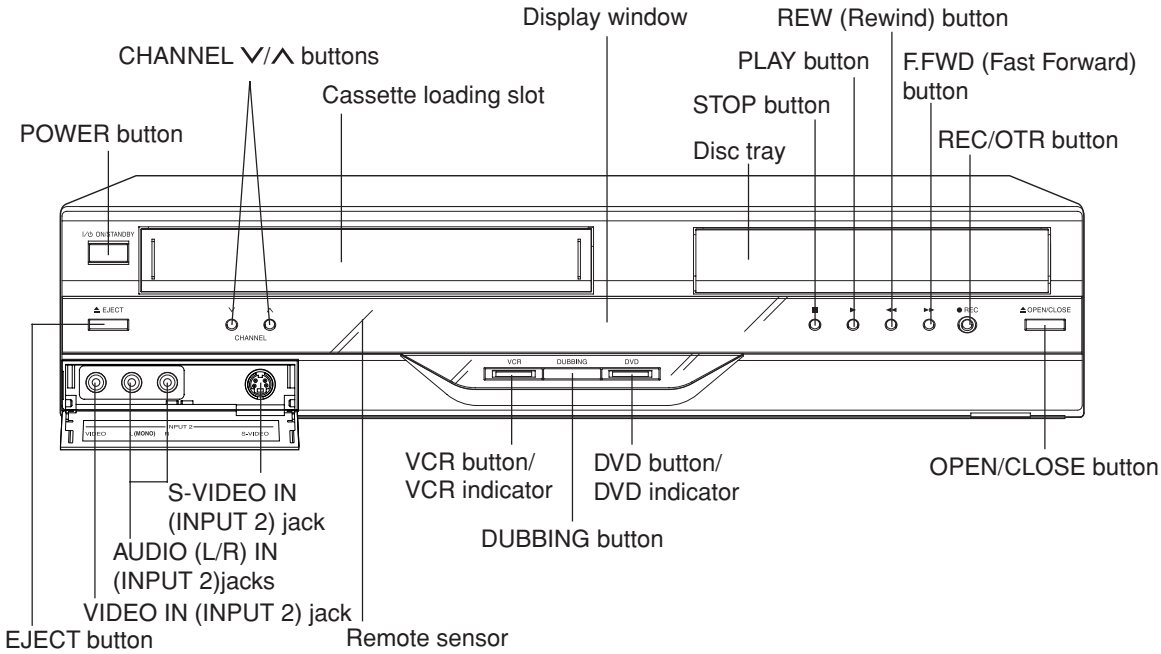
- **Video CD not equipped with PBC function (Version 1.1)**
  Sound and movie can be played on this DVD in the same way as an audio CD.
- **Video CD equipped with PBC function (Version 2.0)**
  In addition to operation of a Video CD not equipped with the PBC function, you can enjoy playback of interactive 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.

- Toshiba is not liable for any damage or loss caused directly or indirectly by the malfunction of this DVD/VCR, including, without limitation, any one of the following:
- Failure to record contents intended to be recorded by the consumer.
- Failure to edit contents as intended by the consumer.
- When a DVD-RAM disc or a DVD-R disc created on this recorder is used (e.g., insertion, playback, recording or editing) in another DVD player, recorder or personal computer drive.
- When a DVD-RAM disc or a DVD-R disc that is used in the manner described in the immediately preceding bullet point is used again in this recorder.
- When a DVD-RAM disc or a DVD-R disc that was recorded in another DVD recorder, or in a personal computer drive is used in this recorder.
- Discs recorded in this recorder may not operate as expected on other DVD players, recorders or personal computer drives.

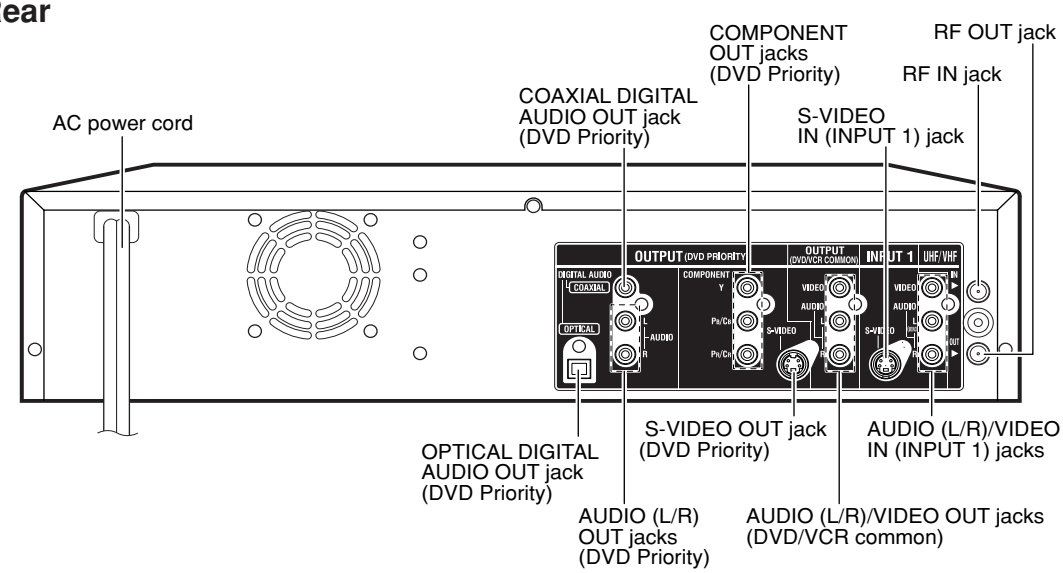
Parts and functions

Front

* This unit has a door on the front panel.
  Please open it to access the S-VIDEO jack and the AUDIO (L/R)/VIDEO IN (INPUT 2) jacks.

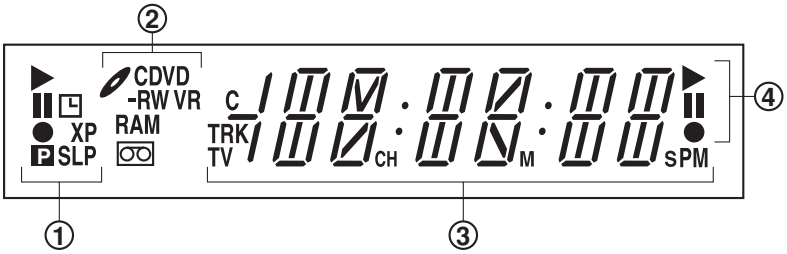


Rear



Parts and functions

Display window

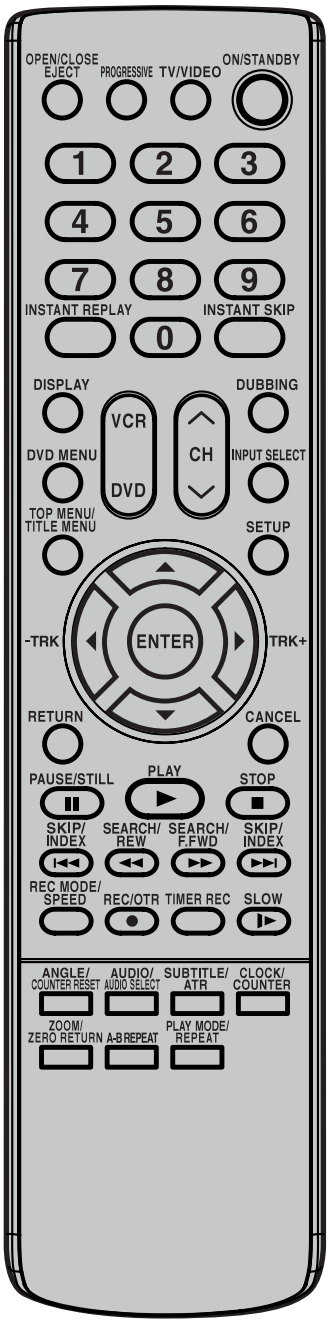


No.	Display	Description
①	▶	Lights during video tape playback.
	❚❚	Video tape is temporarily stopped.
	●	Lights during video tape recording.
	P	Progressive scanning mode.
	◷	Timer recording display.
	XP/SP/LP/SLP	4 DVD recording modes. XP, SP, LP or SLP can be selected in turn by pressing the REC MODE/SPEED repeatedly.
	SP/SLP	2 VCR recording modes. SP or SLP can be selected in turn by pressing the REC MODE/SPEED repeatedly.
②	CD	Appears when a CD is inserted.
	DVD	Appears when a DVD-Video is inserted.
	DVD-R	Appears when a DVD-R is inserted.
	DVD-RW	Appears when a DVD-RW is inserted.
	RAM	Appears when a DVD-RAM is inserted.
	VR	Appears when a DVD-RW in VR mode is inserted. When the disc is set to video mode, VR does not appear.
	▭	Video tape is in the unit.
③	10:00	Clock display (Colon [:] flashes).
	01H00M00S	Counter display in hour/minute/second for VCR/DVD, minute/second for CD.
	C 36CH	Cable TV channel display.
	2CH	TV channel display.
	TRK 002	Track number display for CD.
	TV	Appears when the tuner built into this unit is not selected. When you press TV/VIDEO disappears.
	PM	Display for afternoon (out in the morning).
	L1/L2	The external input channel (L1 or L2) display.
	Err	Error display.
④	▶	Lights during playback of DVD and CD. Flashes in auto resume.
	❚❚	DVD or CD is temporarily stopped.
	●	Lights during DVD recording.

NOTE:
Some discs may not playback correctly, or chapter number, playback time, etc may not be displayed.

Parts and functions

Remote control

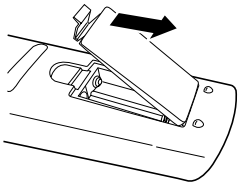


		Page
OPEN/CLOSE	Opens or Closes the tray	31
EJECT	Ejects the cassette tape	46
PROGRESSIVE	Activates the progressive scanning mode	45
TV/VIDEO	Select to operate TV/VIDEO	22, 53
ON/STANDBY	Turns power on/off	22
0-9	Direct channel selection of TV	52
	Setting input	35
	Entering a password	24
INSTANT REPLAY	Repeats playback between the section played 10 seconds before and present section	36
INSTANT SKIP	Skips commercial breaks	35, 48
DISPLAY	Displays VCR or DVD operation status	33, 49
VCR DVD	Switches to operation between VCR and DVD	31,47,79,80
CH ∧/∨	Channel selection for the connected TV or VCR	52
DUBBING	Copies VCR to DVD or DVD to VCR	79
DVD MENU	Displays the menu of the DVD disc	37
INPUT SELECT	Switches the connected TV to external inputs	81
TOP MENU/TITLE MENU	Selects titles of a DVD disc	32, 37, 61
SETUP	Displays the Easy Menu	23, 55
▲ / ▼	Cursor buttons	23, 31, 35, 55
TRK +/–	Manual tracking in the playback mode for VCR	48
◀ / ▶	Cursor buttons	23, 31, 35
ENTER	Option selection in the menu	23, 31, 35, 55
RETURN	Close the menu window	23
CANCEL	Deletes the Timer recording program	57
	Cancels input data in the setting mode	24
PAUSE/STILL	Still picture/Recording pause on/off	34, 48
PLAY	Playback	31, 47
STOP	Stop	31, 47, 53
SKIP ⏮/⏭	Skips chapters in the forward or reverse direction	34
INDEX ⏮ / ⏭	Searches for the INDEX mark of a tape	49
SEARCH ◀◀/REW	Rewind/Review playback	34, 47, 48
SEARCH ▶▶/F.FWD	Fast Forward/Forward search playback	34, 47, 48
REC MODE/SPEED	Selects the recording mode	52, 54
REC/OTR	Recording	52, 54
TIMER REC	Sets the unit to start recording at a preset time	57
SLOW	Slow motion playback	34, 48
ANGLE	Changes playback angle	38
COUNTER RESET	Resets the counter to 00H 00M 00S	49
AUDIO	Switches sound between mono and stereo	59
AUDIO SELECT	Changes the language of the DVD	39
SUBTITLE	Selects subtitles of the DVD disc	39
ATR	Digital AUTO TRACKING	48
CLOCK/COUNTER	Changes the front panel display mode	49
ZOOM	Zoom (for DVD/Video CD)	38
ZERO RETURN	Stops the tape when the counter reaches 00H 00M 00S	49
A-B REPEAT	Repeats playback between A and B	36
PLAY MODE	Selects the playback mode/Cancels PBC function	35, 39
REPEAT	Repeats playback	36, 48

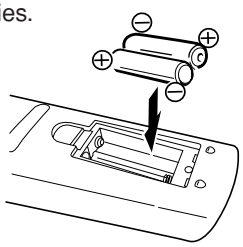
Parts and functions

Inserting Batteries into the Remote Control:

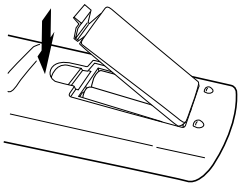
1 Open the battery compartment cover in the direction of the arrow.



2 Pay attention to the polarity diagram in the battery compartment when install two AAA batteries.



3 Close the compartment cover.

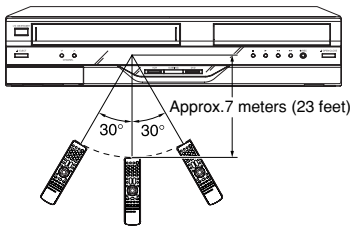


Caution:
Never throw batteries into a fire.

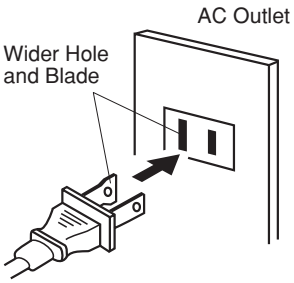
Notes:
- Be sure to use AAA size batteries.
- Dispose of batteries in a designated disposal area.
- Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with new ones.
- When necessary to replace batteries in the remote control, always replace both batteries with new ones. Never mix battery types or use new and used batteries in combination.
- Always remove batteries from remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.

Remote control basics
- Press **ON/STANDBY** to turn the DVD/VCR on or off.
- 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 **numeric keys**.
- Each press of **DVD** or **VCR**, switches the screen between the DVD screen (DVD mode) and the VCR screen (VCR 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 approximately 7 meters (23 feet).



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.
- If the AC cord plug is plugged in for the first time, wait for approximate 3 minutes before operating the unit.

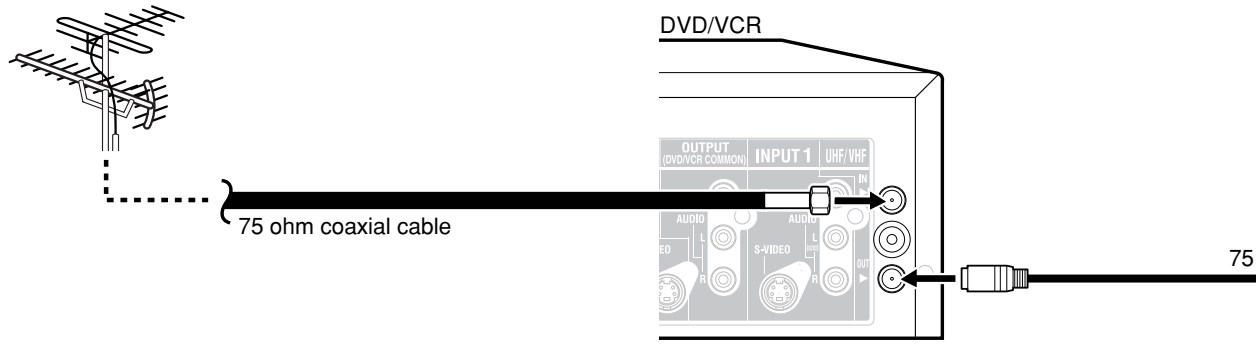
Antenna connections

If you are using an antenna system, follow these instructions. If you are a Cable TV subscriber, skip ahead to page 18 for the proper connections.

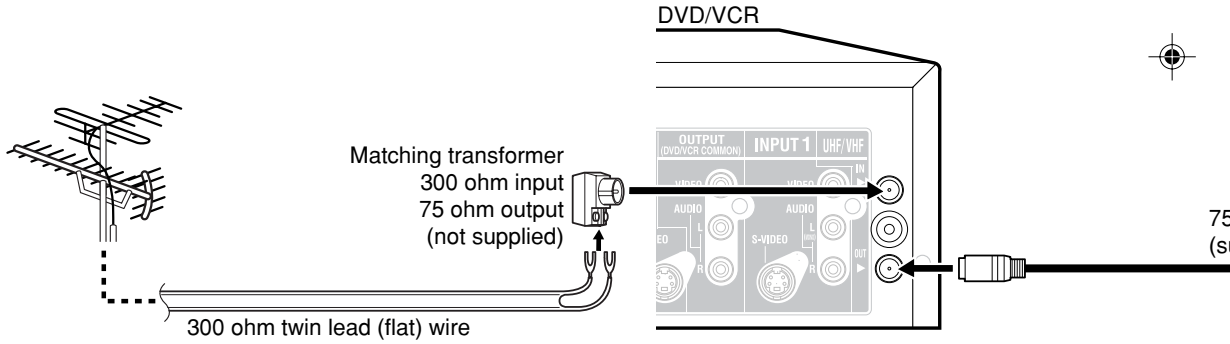
ANTENNA TO DVD/VCR CONNECTION

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.

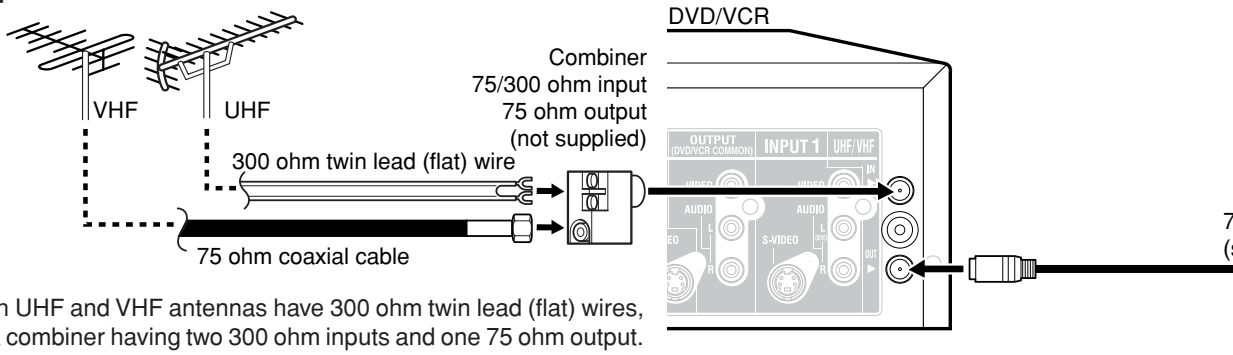
1 Combination UHF/VHF antenna with 75 ohm coaxial cable



2 Combination UHF/VHF antenna with 300 ohm twin lead (flat) wire



3 Separate UHF and VHF antennas



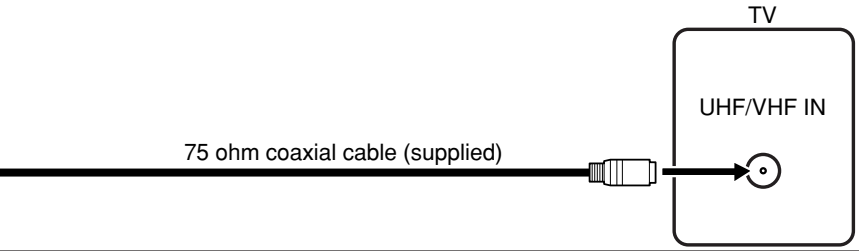
NOTE: If both UHF and VHF antennas have 300 ohm twin lead (flat) wires, use a combiner having two 300 ohm inputs and one 75 ohm output.

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.

Antenna connections

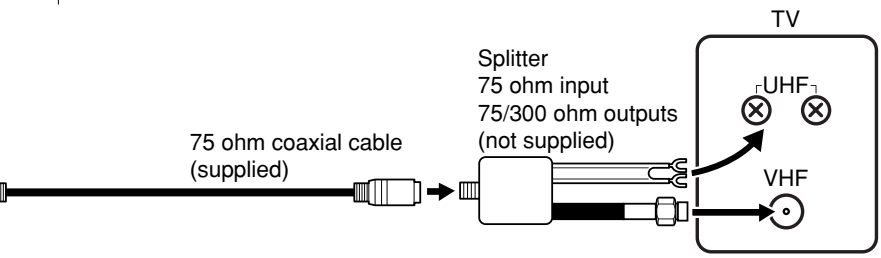
DVD/VCR TO TV CONNECTION

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 UHF and VHF antenna inputs (numbers 2 and 3 below), use a splitter to connect the DVD/VCR to the TV for UHF and VHF reception.



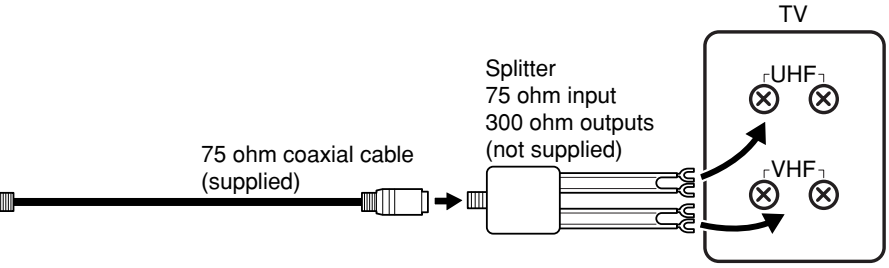
NOTE: If a UHF or VHF antenna is used, set the TV/CABLE menu option to the "TV" mode.

TV with single 75 ohm UHF/VHF antenna input



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

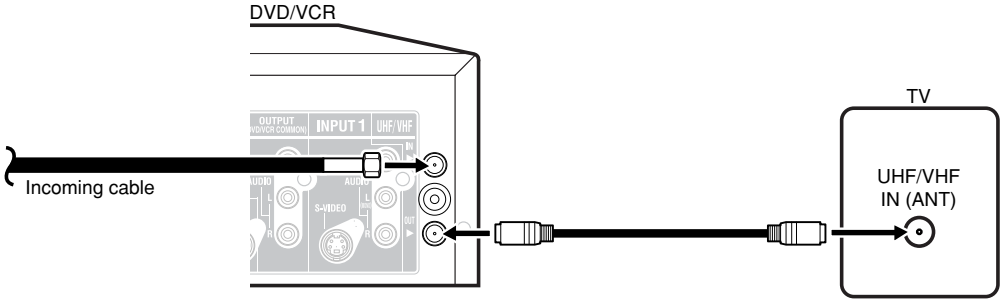
TV with 300 ohm UHF and 300 ohm VHF antenna inputs

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and other materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability.

Cable TV connections

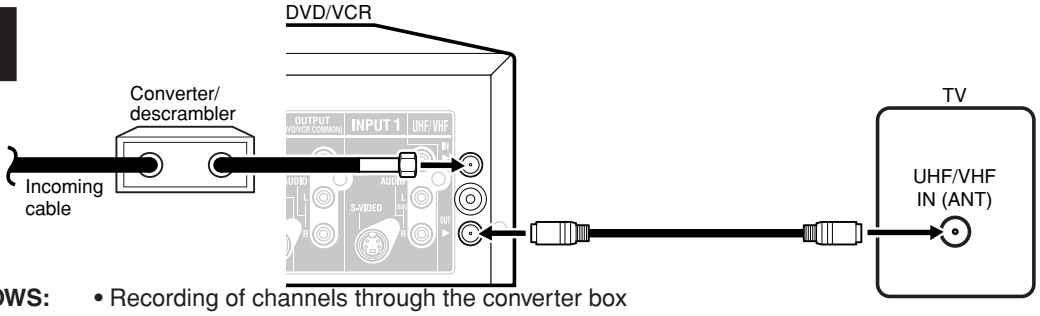
Many cable companies offer services permitting reception of extra channels including pay or subscription channels. This DVD/VCR has an extended tuning range and can be tuned to most cable channels without using a cable company supplied converter box, except for those channels which are intentionally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

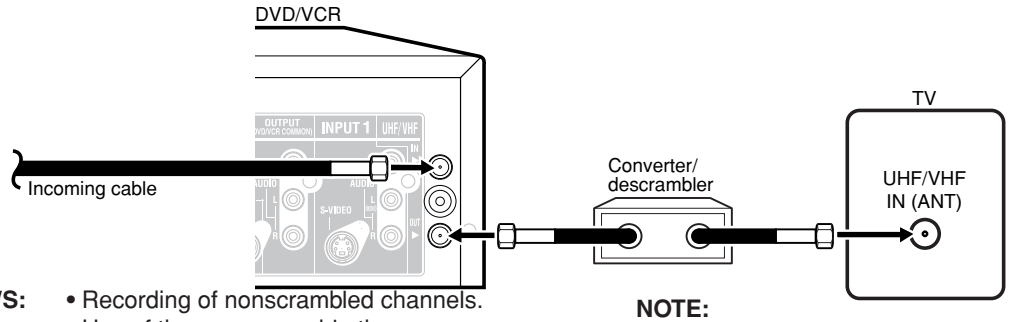


ALLOWS:
- Recording of channels through the converter box (scrambled and unscrambled).
- Using the programmable timer to record only the channel selected at the converter box.

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).

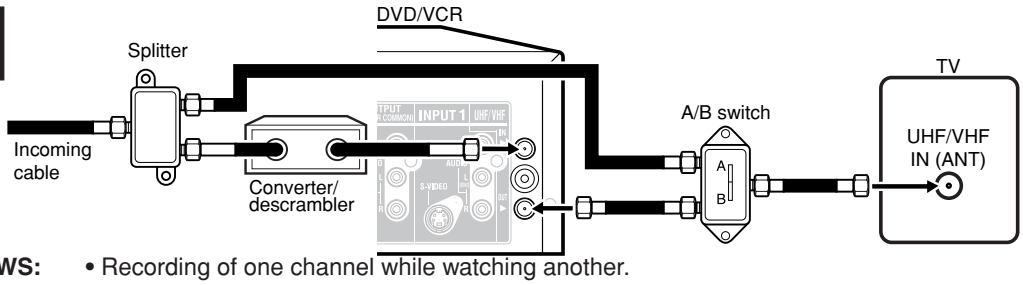
NOTE: Whenever a converter/descrambler box is placed before the DVD/VCR, you must tune the DVD/VCR to the output of the converter/descrambler box, usually channel 3 or 4.

Cable TV connections

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.

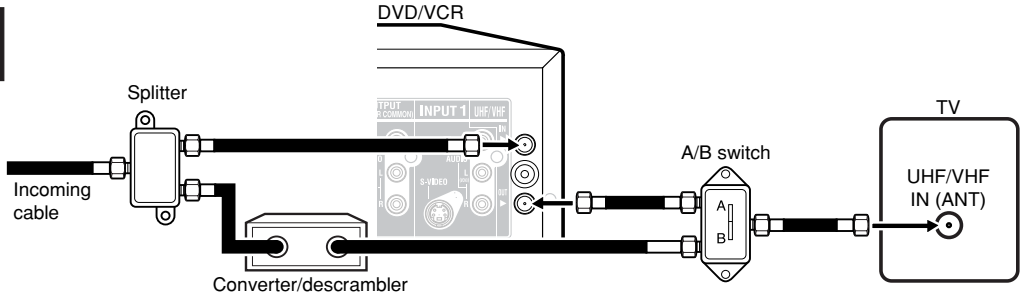
4



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.

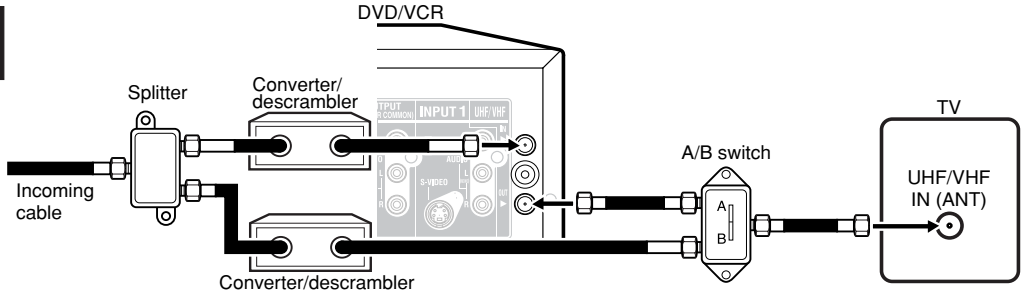
5



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.

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Connections with the TV or audio component

The exact arrangement you use to interconnect various video and audio components to the DVD/VCR is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of video and audio inputs and outputs.

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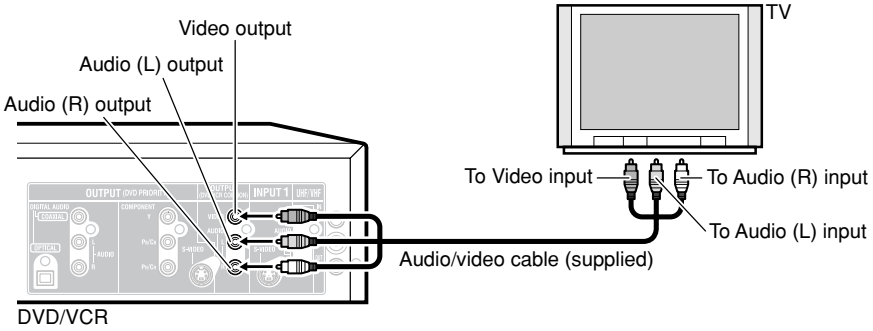
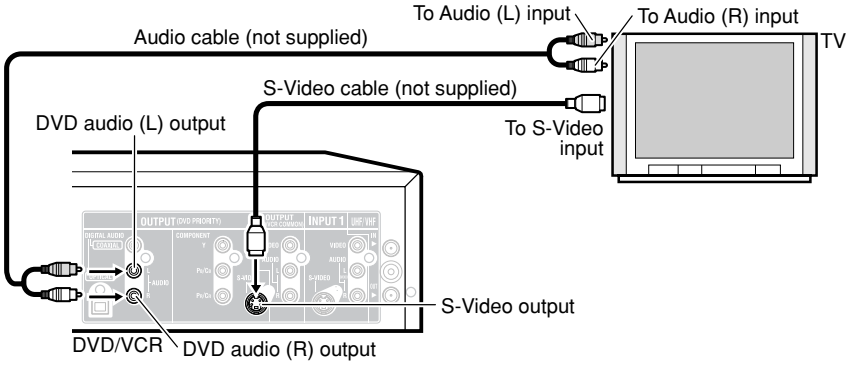
Connect to a TV with Audio/Video output

You can enjoy playback by connecting the unit to a TV.
Connect the unit to a TV equipped with audio input (L/R) and video input jacks using the supplied audio/video cable.



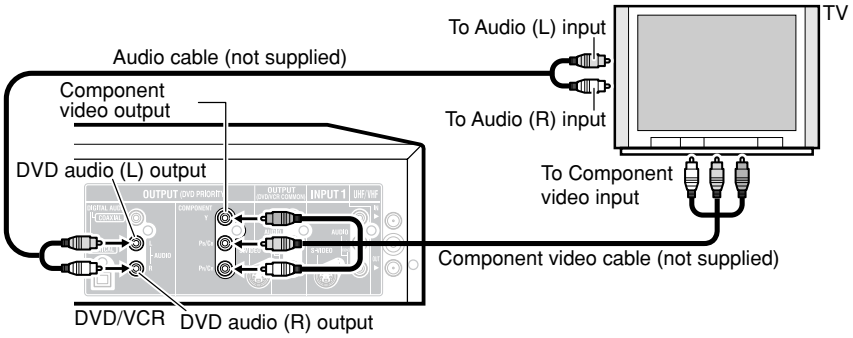
Connect to a TV with S-Video output

If your TV has an S-Video input, you can get higher quality by connecting it with the S-Video output of the unit using the S-Video cable instead of connecting the video input of the TV to the video output jack of the unit.



Connect to a TV with Component video output

You can enjoy the highest quality picture by connecting the unit's component video out jacks to the component video input jacks of your TV, with component video cables (not supplied).

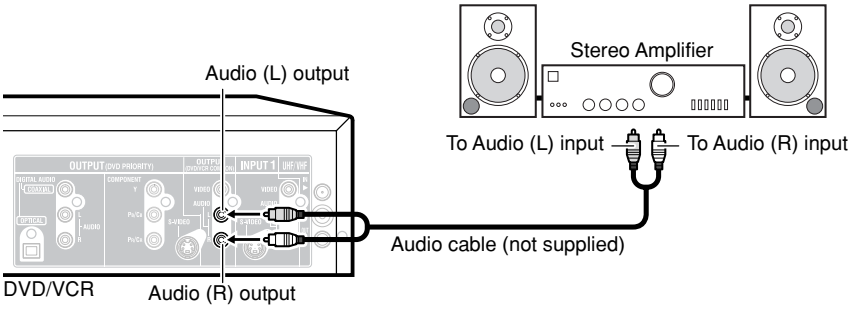


NOTE:
If the component video input jacks on a TV are the BNC type, use an adapter to convert the RCA jacks from the component video cables to BNC (not supplied).

Connections with the TV or audio component

Connect to a stereo amplifier with audio output

You can enjoy high quality audio by connecting the audio output to your amplifier.
Connect the audio output jacks to any line-level inputs (such as AUX, DVD, CD, etc.) of an audio amplifier.



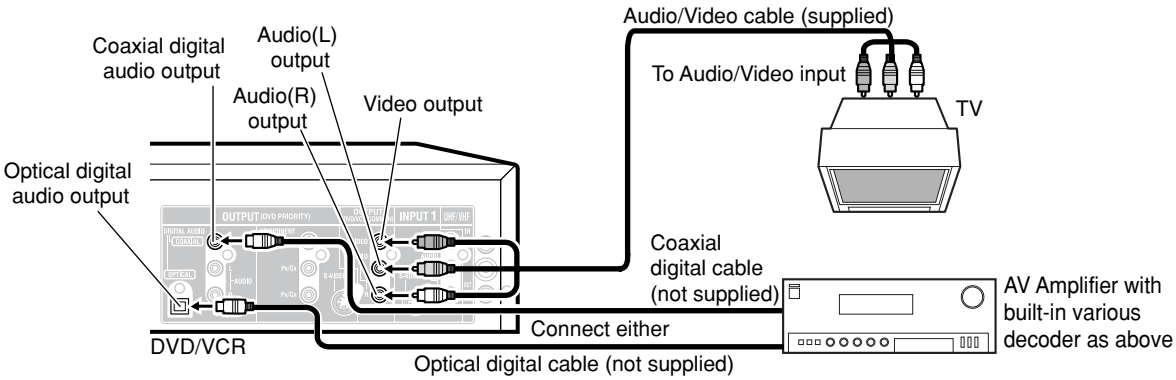
Connect to an AV Amplifier with built-in digital surround

If you are using an Amplifier with a built-in digital surround as follows, you can enjoy the various audio systems such as Dolby Digital and DTS by using the optical or coaxial digital output.

Use this connection to connect an:

- **AV amplifier with built-in *Dolby Digital decoder**
- **AV amplifier with built-in *DTS decoder**

NOTE:
You may connect to a TV with a component video cable (not supplied) or S-Video cable (not supplied) instead of a video cable.



Connecting the optical digital cable

You may connect to an AV Amplifier with an optical digital cable (not supplied) instead of a coaxial digital cable.

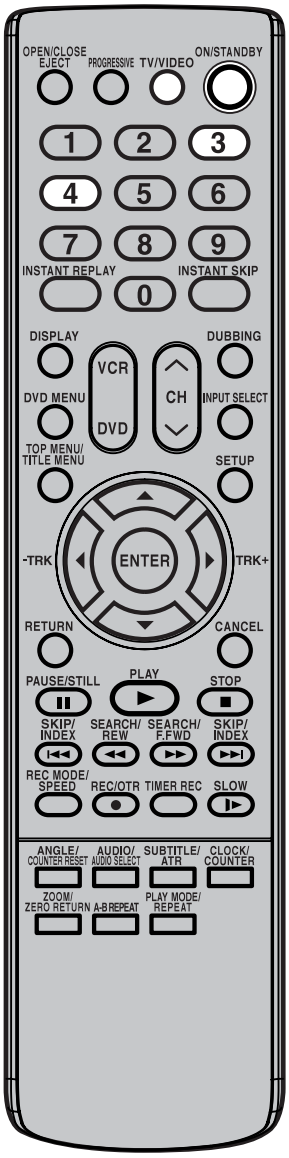
When you connect the optical digital cable (not supplied), remove the dust protection cap from the rear panel.
When not using the optical digital cable, attach the dust protection cap to protect against dust.

NOTES:

- When you make the connections above, do not set DOLBY DIGITAL to DOLBY DIGITAL or DTS to ON on the AV amplifier. If you do, a loud noise will suddenly come out from the speakers, affecting your ears or causing the speakers to be damaged.
- Caution for the optical digital audio output connector: Do not connect to an amplifier (with an optical digital input connector) which does not contain a Dolby Digital or DTS decoder. Otherwise, any attempt to play DVDs may cause such a high level of noise that it may be harmful to your ears and damage your speakers.
- DTS audio will be output only from the COAXIAL or OPTICAL output. To hear DTS audio, DTS-Decoder is necessary.
- When playing DTS-encoded CDs, only noise will be heard from the speakers or analog stereo outputs.
- Some DTS decoders which do not support DVD-DTS interface may not work properly with the unit.
- The optical or coaxial digital output jack output sounds in the bitstream.

2H5-01 P12-21 21 7/20/05, 20:48

Auto clock setting / Setting the video channel



NOTES:

- **When shipped from factory, the video channel is set to CH 3.**
- **If the unit does not operate properly, or there is no key operation from the unit and/or the remote control:** Static electricity, etc., may affect the operation. Disconnect the AC power cord once, then connect it again.

Auto clock setting

Preparation:

You must connect the antenna or cable before connecting the AC cord to the power source.

After the antenna or cable is connected, wait for at least 3 minutes with the power turned off, for the auto clock feature to activate.
After the clock is set automatically, you may have to set the time zone and daylight saving time. (See page 25 and 26.)
Press **ON/STANDBY** to turn on the DVD/VCR after the auto clock operation completed.

- When shipped from factory, the “AUTO” option is set to “On” position.
- If you turn the DVD/VCR on during auto clock setting, the clock is not set.
- Depending on the reception condition, auto clock setting may take approx. 30 minutes.
- After a power failure or disconnection of the power plug, the clock will be lost. In this case, wait 3 minutes before turning the DVD/VCR on.
- With cable box connection, if the auto clock setting is unsuccessful, select the PBS channel carrying the XDS information, then turn the DVD/VCR off. After 3 minutes, turn the DVD/VCR on.
- If the clock is not set automatically, set the clock manually. (See page 26.)

Setting the video channel

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).

When a TV is connected with the 75 ohm coaxial cable only:

1. Press and hold **3** or **4** on the remote control for 3 seconds **in the standby mode** to select CH **3** or **4**. The selected channel number will flash on the display for about 4 seconds.
2. Turn ON the TV and set to CH **3** or **4** to correspond with the channel selected in step **1**.
3. Press **ON/STANDBY** to turn on the DVD/VCR.
4. Press **TV/VIDEO** to select the VIDEO position.
   The TV indicator will disappear in the display.
5. 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

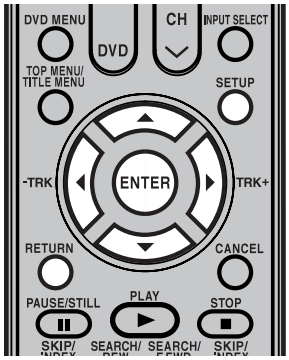
If CH **3** or **4** corresponding to the video channel cannot be tuned on your TV, proceed as follows: set the VCR 3/4 channel selector and the TV to CH **3** or **4**, playback a prerecorded tape and tune the TV to receive a sharp color picture from the video cassette recorder. Refer to your TV owner’s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

Setup Menu

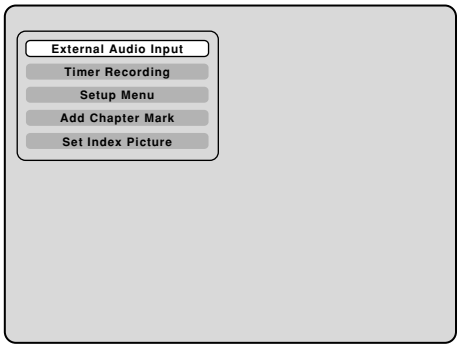
The Setup Menu consists of several menus where you can make various settings concerning language, audio functions and images. In addition, this menu includes a clock, channel and other menus that require setting just after purchase.
For details of each menu, see the corresponding section in this chapter.

Using the Setup Menu

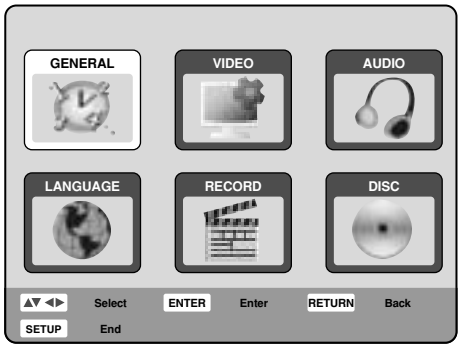
The following example shows the basic setting procedure of the Setup Menu.



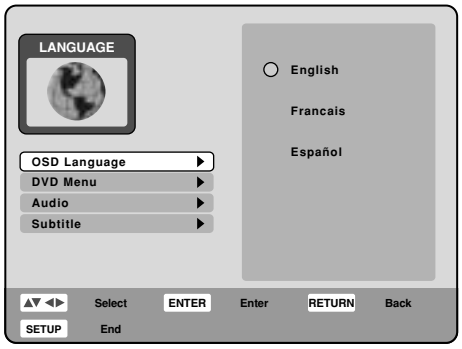
1 Press **SETUP** while the DVD or video tape is stopped.
The Easy Menu screen will appear.



2 Press ▼ to select the Setup Menu and press **ENTER**.
The Setup Menu screen will appear.



3 Press ▲/▼/◀/▶ to select the desired item and press **ENTER**.
The screen for that item will appear.

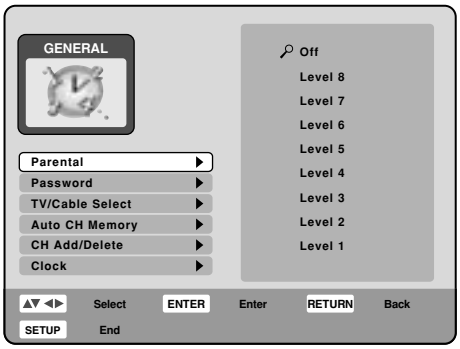


4 Press ▲ or ▼ to select the desired item and press **ENTER**.
This completes the setting procedure.
- To return to the previous screen, press **RETURN**.
- To close the Setup Menu, press **SETUP**.

NOTE:
For items that require different operations from the basic setting procedure, the setting procedure is described in each individual section.

General Settings

Preparation:
- Turn ON the TV and set it to the video input mode.
- Select "**GENERAL**" from "**Setup Menu**". For the procedure, see steps **1** to **3** in "Using the Setup Menu" on page 23.



Parental / Password

Some discs are specified as not suitable for children. This unit can prevent playback of such discs. Select "Parental" and select the parental control level from the below, then press **ENTER**.

Off: Parental control is turned off.
Level 8: Virtually all discs can be played back without restriction.
Level 4 to 7: Adult discs cannot be played back. (Level 4 to 7 discs contain content children age 15 and younger may not see.)
Level 2 to 3: Adult discs and R-rated discs cannot be played back.
Level 1: Adult discs and general discs (R-rated discs included) cannot be played back.

Select from level 1 to level 8.
On a scale of 1- 8, "1" is the most restrictive.

To lock the selected parental control level

1 When you select "Parental", the password input screen opens.

2 Use the **numeric keys** to input a 4-digit password.
- If you input a wrong number, press **CANCEL**.
- Be sure to remember this number!

To change the password set for the parental control level

1 Press ▲ or ▼ to select "Password" and press **ENTER**.

2 Press ▲ or ▼ to select "Change" and press **ENTER**.

3 Enter the current password. The new password entry box appears.

4 Enter new password. The new password verify box appears.

5 Enter new password again to verify.

To delete the password you set for the parental control level

1 Press ▲ or ▼ to select "Password" and press **ENTER**.

2 Press ▲ or ▼ to select "Delete" and press **ENTER**.

3 Enter the current password.

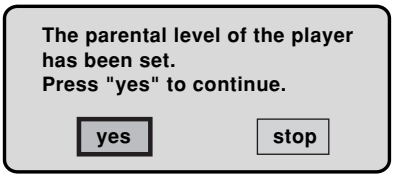
NOTES:
- The selected level will apply to operations executed after this.
- The unit cannot restrict playback of some discs.
- Some discs may not be encoded with specific rating level information though its disc jacket says "adult". Parental control will not work with those discs.
- If you forget your password, open the disc tray; if there is a disc inside then remove it and close the tray. To reset the code press and hold **number 7** on the remote control, then press and hold **STOP** on the front panel at the same time. The On-Screen Display will show "Parental Unlock". You can now set a new password.

Temporarily cancelling parental control

Parental control can temporarily be cancelled with some DVDs.

1 Playback a DVD. (See page 31.)

2 If the DVD disc has been designed to temporarily cancel the rating level, the message "The parental level of the player has been set."(e.g.) will appear.
- A message screen changes with disc.



3 If you wish to cancel the set rating level temporarily, select "yes" with ◀ or ▶, then press **ENTER**. If the password has been selected, the password input screen will appear.
Alternatively, if the password has not been set, playback will commence. If you don't know (or have forgotten) the password, select "stop".
Then, press **OPEN/CLOSE** to remove the disc.

4 Use the **numeric keys** to input the password.
- To interrupt the input process, press **RETURN**.

5 Playback will commence if the entered password was correct.

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

This DVD/VCR is equipped with a channel memory feature that allows you to skip channels up or down to the next channel set in memory, hence skip 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 Select

Select "TV/Cable Select" and select "TV" or "Cable".
TV: VHF/UHF channels
Cable: CABLE TV channels

Auto CH Memory

The VCR can receive a maximum of 181 channels by presetting the channels into memory.
When you select "Auto CH Memory" and press **ENTER,** the Auto CH Memory function will be activated.
The channel display will count up and when finished, the screen returns to normal.

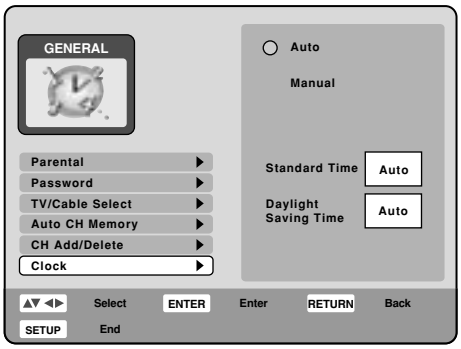
CH Add/Delete (channels)

You can add the channels you want or delete the channels you do not want manually.
Select "CH Add/Delete" and select "Add" or "Delete" for each channel.

- Press ▲ or ▼ to select the channel then press **ENTER**.
  The **numeric keys** can also be used for selection.

Clock

The clock is set to the correct time automatically, but it can also be set manually. The clock can be set for daylight saving time and time zone.



Auto

You can automatically set the clock by turning "On" the Auto Clock function.
When you want to set the auto clock function to "Off", select "Manual". (See page 26.)

Standard Time (Time zone)

In the rare event that you live within the broadcast range of two stations in two different time zone, the DVD/VCR may recognize the wrong station for the auto clock set.

Time zones and correction times

Atlantic:	GMT – 4 hours (GMT: Greenwich Mean Time)
Eastern:	GMT – 5 hours
Central:	GMT – 6 hours
Mountain:	GMT – 7 hours
Pacific:	GMT – 8 hours
Alaska:	GMT – 9 hours
Hawaii:	GMT – 10 hours
Auto:	AUTO SET

NOTES
- When shipped from the factory, the "Standard Time" is set to "Auto".
- After making the auto clock setting, in some cases the clock may display another time zone. You can correct the clock by selecting your time zone setting above.
- When the clock is not set or you set the clock manually, the time zone setting is not available.

Daylight Saving Time

General Settings / Setting the Video

You can set the clock to daylight saving time automatically or manually.
To select daylight saving time, select “Daylight Saving Time” and select “On”, while to cancel the daylight saving time, select “Off”.

On: For manual setting (forward 1 hour)
Off: For manual setting (back 1 hour)
Auto: For automatic setting (read XDS in the signal)

NOTES:
- When you want to set the Daylight Saving Time manually, on the first Sunday in April you set it to “On”, and on the last Sunday in October you set it to “Off”.
- When the clock is not set, the daylight saving time setting is not available.
- When there is no daylight saving time in your area, always select “Off”.

Manual

You can manually set the date, year and present time with the remote control.

1 Press ▲ or ▼ to select “Manual” and press **ENTER**.

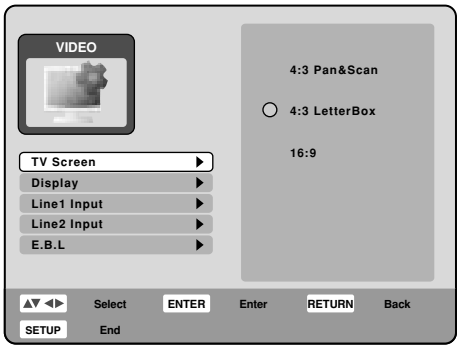
2 Select the desired items using ◀ or ▶ (month, date, year, hour, and minute), then press ▲ or ▼ to set the value of the selected item.

3 Repeat step **2** to set the date, year, present time and Daylight Saving Time. Press ENTER. The Setup Menu will close.
This completes clock time setting.

This section describes video settings.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select “**VIDEO**” from “**Setup Menu**”. For the procedure, see steps **1** to **3** in “Using the Setup Menu” on page 23.



TV Screen

You can select the TV screen size to suit the screen image.
Select “TV Screen” and select screen size from the below.

4:3 Pan&Scan
It displays a wide picture across the whole screen with left and right edges automatically cut off.

4:3 LetterBox
Select this mode when connecting to a conventional TV. When playing back a wide screen DVD disc, it displays a wide picture with black bands at the top and bottom of screen.

16:9
Select this mode when connecting to a wide-screen TV. A wide-screen picture is displayed in full size.

NOTE:
If the DVD disc is not formatted in the Pan&Scan format, it displays a 4:3 aspect ratio.

Display (Turning the screen display “On” or “Off”)

You can turn off the screen display that is output to the TV screen by this unit. Select “Display” and select “On” or “Off”.

On: The screen display appears.
Off: Nothing but the Setup Menu and error messages appear.

Setting the Video / Setting the Audio

Line1 Input/Line2 Input

This unit comes with an S-Video input jack and Video input jack. When you use an S-Video or Video input jack, you must select the input mode.
Select "Line1 Input" ("Line2 Input") and select the mode from the below.

S-Video
The video signal is input from the S-Video input jack priority.

Video
The video signal is input only from the Video input jack.

E.B.L

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

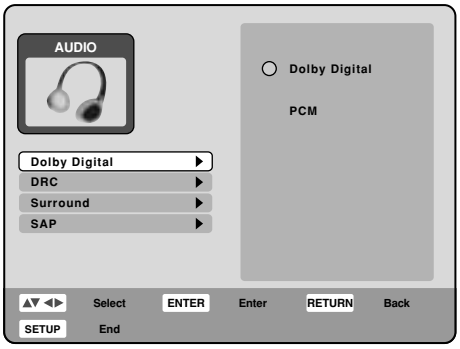
On: Enhanced grey scale (0 IRE cut off)
Off: Standard grey scale (7.5 IRE cut off)

NOTE:
The E.B.L function only works when playing back DVD-Video, DVD-RAM/RW/R or Video-CDs.

This section describes audio settings.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select "**AUDIO**" from "**Setup Menu**". For the procedure, see steps **1** to **3** in "Using the Setup Menu" on page 23.



Dolby Digital

Select from the following methods of outputting the audio of discs that were recorded with Dolby Digital.

Dolby Digital: Outputs in Dolby Digital sound.
PCM: Converts the sound to PCM and outputs it.

NOTE:
Select PCM if you are connected to an audio amplifier and the amplifier is not Dolby Digital compatible.

DRC

DRC (Dynamic Range Control) enables you to control the dynamic range so as to achieve a suitable sound for your equipment.
Select "DRC" and select the level from the below.

Max: Full dynamic range is maintained.
Std: Full dynamic range is reduced.
TV: Dynamic range is reduced.

NOTES:

- This function works only during playback of Dolby Digital recorded discs.
- When you listen to the sound from TV's speaker, we recommend that you select "TV".
- The level of Dynamic Range Reduction may differ depending on the DVD.

Surround

Sound that is not recorded in the surround mode will be changed to artificial surround sound output.
Select "Surround" and select "On" to activate the surround function. Select "Off" to cancel the surround function.

NOTE:
This function does not work with a video tape.

SAP (Second Audio Program)

This unit is fitted with an SAP broadcast system that enables you to switch to a second audio program while viewing a selected channel.
This function applies only when the program is broadcast in multiple languages through the SAP broadcast system.
Select "SAP" and select "On" to activate. Select "Off" to cancel.

Listening to SAP

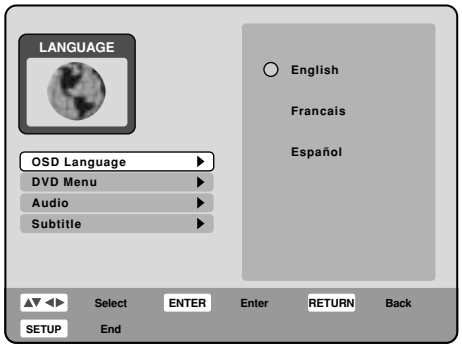
When the unit is turned on or a channel selection is made, make sure "SAP" appears on the screen. This means that "Second Audio Program" broadcasting is available.

Setting the Language

You can choose the language of the menu screen, DVD menu, DVD audio and subtitles.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select **"LANGUAGE"** from **"Setup Menu"**. For the procedure, see steps **1** to **3** in "Using the Setup Menu" on page 23.



OSD Language

You can set the language for on screen display.
Select "OSD Language" and select the language from the below.

Selectable languages:

English, Français, Español

DVD Menu

When several menu languages are recorded on a DVD, you can select the language to be used for the DVD menu.
Select "DVD Menu" and select the language from the below.

Selectable languages:

English, Français, Español
The selected language is the first priority menu language.

Other
If you want to select another language, input the language code by using the **numeric keys** (See the Language code list on page 84). Then press **ENTER**.
- If you input a wrong number, press **CANCEL**.

Audio

When several audio languages are recorded on a DVD, you can select the audio language to be played back. The selected language remains even after the power is turned off or the disc is replaced.
Select "Audio" and select the audio language from the below.

Selectable languages:

English, Français, Español
The language you have selected will play if it is recorded on the disc.

Other
If you want to select another language, input the language code by using the **numeric keys** (See the Language code list on page 84). Then press **ENTER**.
- If you input a wrong number, press **CANCEL**.

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

Subtitle

When several subtitle languages are recorded on DVD, you can select the language to be used for the subtitles. The selected language remains even after the power is turned off or the disc is replaced.
Select "Subtitle" and select the subtitle language from the below.

Selectable languages:

English, Français, Español
The subtitle is displayed with the selected language if it is recorded on the disc.

Other
If you want to select another language, input the language code by using the **numeric keys** (See the Language code list on page 84). Then press **ENTER**.
- If you input a wrong number, press **CANCEL**.

Off
Subtitles do not appear.

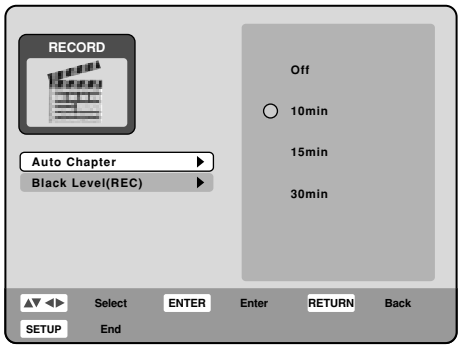
NOTE:
If the selected language is not recorded on the disc, the first priority language is selected.

Setting the Record / Setting the Disc

This section describes recording settings.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select "**RECORD**" from **"Setup Menu"**. For the procedure, see steps **1** to **3** in "Using the Setup Menu" on page 23.



Auto Chapter

You can automatically make chapter marks on the DVD to be recorded.
Select "Auto Chapter" and select the interval between chapter marks from the below.

Off: The automatic chapter is not used.
10 min: The interval is set to 10 minutes.
15 min: The interval is set to 15 minutes.
30 min: The interval is set to 30 minutes.

Black Level (REC)

You can set the black level when you do recording.

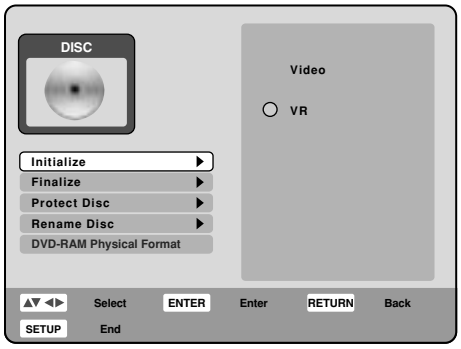
Standard: Records at the level of the input source.
Enhanced: Lowers the level 7.5IRE and records.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and other materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability.

You can format, protect, or finalize a disc.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Select "**DISC**" from "**Setup Menu**". For the procedure, see steps **1** to **3** in "Using the Setup Menu" on page 23.



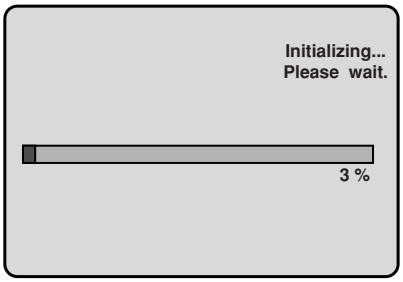
Initialize

You can format a recorded DVD-RAM/RW.
Check the content of the disc before format. If you format the disc, the recorded content of the disc will be erased.
Select "Initialize" and select the mode from the list below.

Video: Format the disc in the Video mode.
VR: Format the disc in the VR mode.

When "VR" or "Video" is selected, the following message screen will appear.

- When you select "Yes" and press **ENTER**, Initializing will start. The screen below will appear.



- When you select "No" and press **ENTER**, the DISC screen will appear.

NOTES:
When the Initialization finished, "Initializing completed. Press ENTER." will appear. Press **ENTER** to return to the DISC screen.

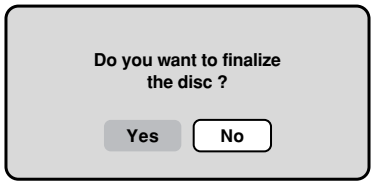
Setting the Disc

Finalize

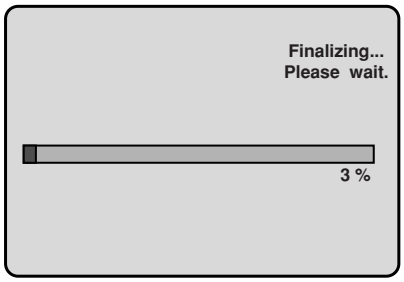
To play a DVD disc recorded on this unit, you must finalize the disc to insure compatibility with other DVD players. In addition, if you are using a DVD-RW disc, you must record in Video mode.
You can cancel the finalization of a finalized DVD-RW (in VR mode).
You cannot cancel the finalization for discs other than above. You can record or edit on a disc whose finalization has been cancelled.
Select from the below.

Finalize: Finalize the disc to compatibility with other DVD player.
Undo Finalize: Cancel the finalization of a finalized DVD-RW(in VR mode).

When "Finalize" is selected, the screen below will appear.



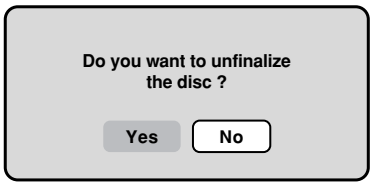
- When you select "Yes" and press **ENTER**, finalization will start. The screen below will appear.



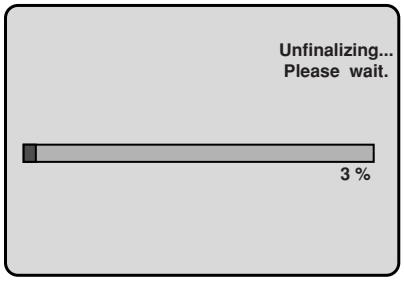
- When you select "No" and press **ENTER**, the DISC screen will appear.

NOTES:
- When the finalization finished, "Finalizing completed. Press ENTER." will appear. Press **ENTER** to return to the DISC screen.
- The finalization process may require a few minutes to about 1 hour according to disc type or the amount of free space on the disc.
- You can record or edit a finalized DVD-RW (in VR mode) by cancelling the finalizing, but you cannot do these operations with a DVD-RW (Video mode), or with a DVD-R.
- You cannot playback a disc recorded on VR mode on a unit that does not support DVD-RW.
- Even if you finalize a disc in the Video mode, the disc cannot be played back in some DVD players.
- A DVD-RW(Video mode) and DVD-R disc cannot be named after it is finalized.

Select "Undo Finalize", and the screen below will appear.



- When you select "Yes" and press **ENTER**, the cancelling finalization will start. The screen below will appear.



- When you select "No" and press **ENTER**, the DISC screen will appear.

NOTES:
- When cancelling finalization is finished. "Undo finalizing completed. Press ENTER." will appear. Press **ENTER** to return to the DISC screen.
- The cancelling finalization process may require a few minutes to about 1 hour according to disc type or the amount of free space on the disc.
- When the disc's finalization cannot be cancelled, you cannot select "Undo Finalize".

Protect Disc

You can protect a disc to prevent the content recorded on it from being erased, edited or re-recorded.
Only DVD-RAM and DVD-RW (in VR mode) can be protected.
Select "Protect Disc" and select "On" to protect the disc.
To cancel the disc protection, select "Off".

Rename Disc

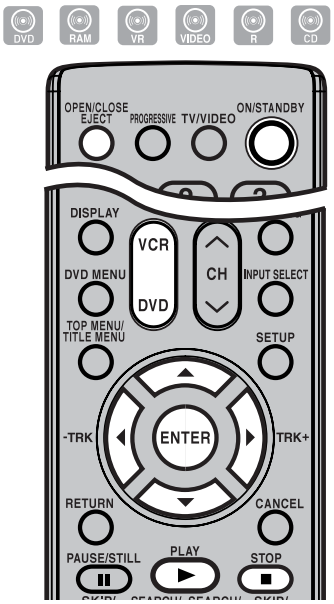
You can change a disc name.
See "Changing a disc name" on page 77.

DVD-RAM Physical Format

Physically formats a DVD-RAM disc. Whenever you use a new disc for the first time, be sure to format it.

NOTE:
The physical format process may require about 1 hour according to disc condition.

Playback procedure



NOTES:

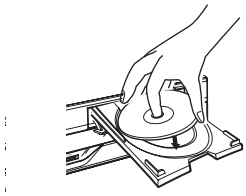
- If a non-compatible disc is loaded, "Disc error", "Incorrect disc.", "Region Code Error" or "Parental Error" will appear on the TV screen according to the type of loaded disc. In this case, check your disc again (See pages 9 and 24).
- Some discs may take a minute or so to start playback.
- A prohibition symbol "" may appear at the upper right of the screen. This symbol means either the feature you tried is not available on the disc, or the DVD/VCR can not access the feature at this time. This does not indicate a problem with the DVD/VCR.
- When you set a single-faced disc label downwards (ie. the wrong way up) and press **PLAY** or **OPEN/CLOSE**, disc icon will appear and then it will change to "Incorrect disc.".
- Some playback operations of DVDs may be intentionally fixed by software producers. Since this DVD/VCR 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.
- When playing DTS-encoded Audio CDs, excessive noise will be heard from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog stereo outputs of the DVD/VCR are connected to an amplification system.
- Resume playback cannot function when you play a SVCD or PBC-feature Video CD while "PBC" is ON.

Preparation:

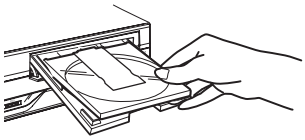
- Turn ON the TV and set to the video input mode.
- Press **DVD** to select the DVD mode. (The DVD indicator will light.)

1 Press **OPEN/CLOSE**.
The disc tray will open.

2 Insert a disc.
Disc without a cartridge
Insert with the playback side down.
Place a disc to fit the guide.
If a disc is out of the guide, it may result in damage to the disc or malfunction.



DVD-RAM disc with cartridge (TYPE1/TYPE2/TYPE4)
Single sided
Turn the printed side up, and insert the cartridge into the tray frame following the direction of the arrow on the cartridge.



Double sided
Turn the desired recording/playback side up, and insert the cartridge into the tray frame following the direction of the arrow on the cartridge.

NOTE:
If you insert an unused DVD-RW disc, the disc is automatically formatted.
If you use the DVD-RW (Ver.1.1/1.2), you can select the format mode to Video or VR.

3 Press **OPEN/CLOSE** to close the disc tray.
Disc icon appears on the screen and some discs start playback automatically.

- A menu screen may appear on the TV screen if the disc has a menu feature. In this case, press ▲, ▼, ◀, ▶ or **ENTER** to operate a menu feature.

4 Press **PLAY** to start playback.

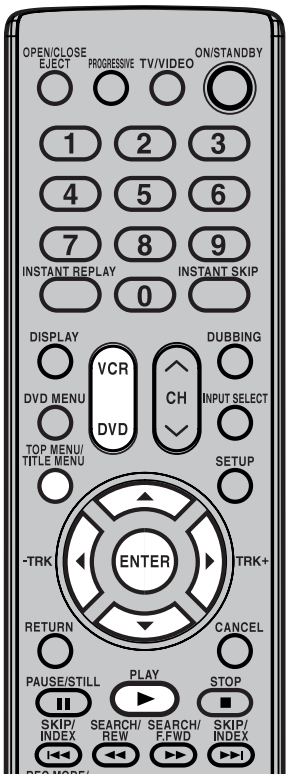
5 Press **STOP** to end playback.

- The DVD/VCR memorizes the stopped point, depending on the disc. "" appears on the screen for approx. 4 seconds. "▶" keeps blinking in the display until the playback is stopped completely. Press **PLAY** to resume playback (from the scene point).
- If you press **STOP** again ("■" appears on the screen), the DVD/VCR will clear the stopped point.

6 Press **OPEN/CLOSE**.
The disc tray opens.
Remove the disc and press **ON/STANDBY**.
The disc tray closes automatically and DVD/VCR turns off.

Playback by selecting a title

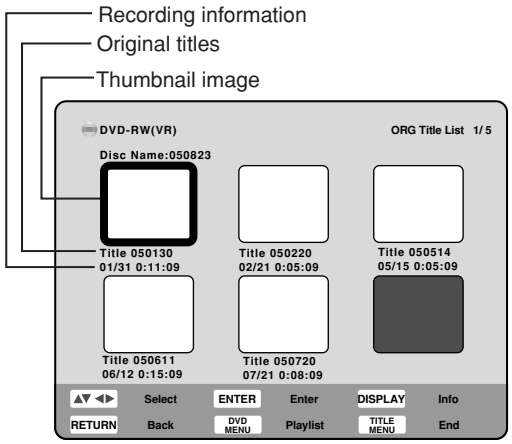
When playing back a recorded disc, you can display the title menu and select the title to be played back.



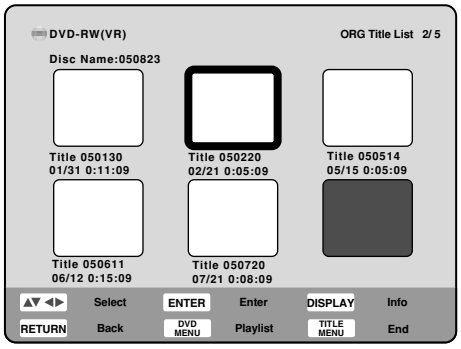
NOTE:
When a disc that has been recorded in the Video mode is finalized, the title menu is automatically changed that can be played back even with other DVD players.

Preparation:
- Turn ON the TV and set to the video input mode.
- Load a recorded DVD.
- Press **DVD** to select the DVD mode. (The DVD indicator will light.)

1 Press **TITLE MENU**.
The ORG Title List will appear.



2 Press ▲/▼/◀/▶ to select the title you want to playback.



3 Press **ENTER.**
The editing menu of original title will appear.

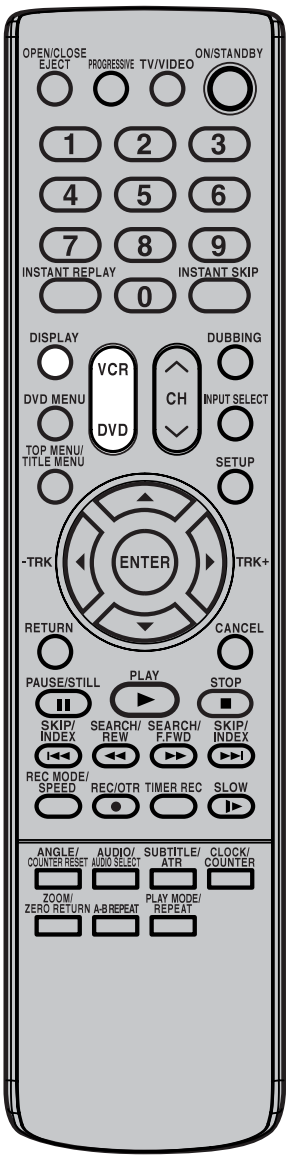
4 Press ▲ or ▼ to select “Play”.

5 Press **ENTER.**
The selected title is played back.

NOTES:
- If you don’t display the title menu and press **PLAY**, the first title is played back.
- The title menu is used not only for playing back titles but also for editing various discs and titles. For details of editing operation, see page 60.

Checking media information

Various information on the loaded disc can be displayed on the TV screen.



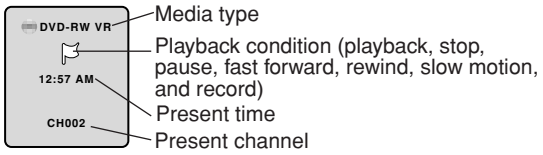
NOTES:

- The displayed information varies with the type of media.
- Some information may not appear due to media type or operating conditions.
- In stop mode, some information does not appear.

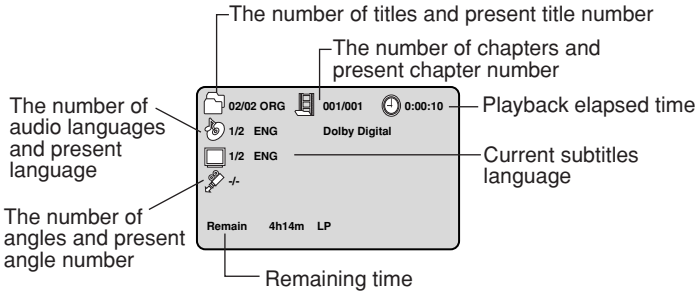
Preparation:

- Turn ON the TV and set it to the video input mode.
- Load the disc.
- Press **DVD** to select the DVD mode. (The DVD indicator will light.)

1 Press **DISPLAY**.
Media information will appear.



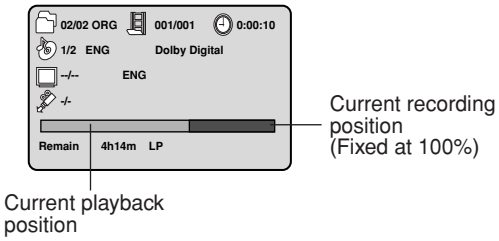
2 Press **DISPLAY** while the media information above is displayed.
The next media information will appear.



*The remaining time displayed during recording may be different from the actual remaining time. When you want to check the correct remaining time, stop recording and display the media information again.

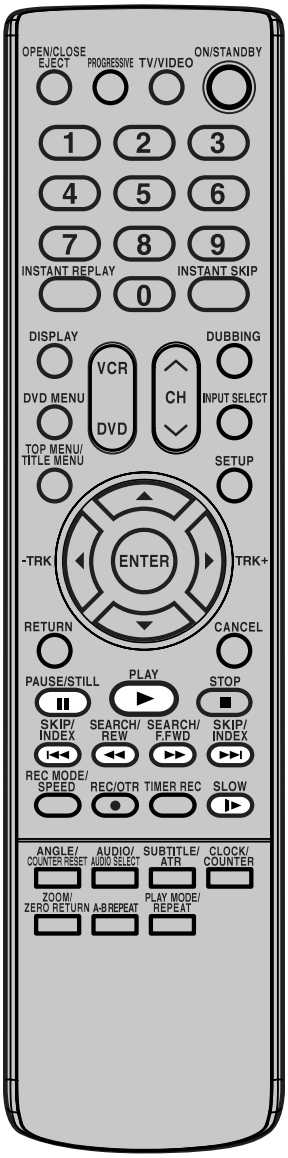
3 Press **DISPLAY** again. The media information will disappear.

*If you press **DISPLAY** during chase playback, the information screen is displayed.
The symbols indicate that the player is in chase playback.
The progress bar shows the current position of playback and the position of recording. Normally the recording position is shown as being at 100%. Items other than these appear the same as on a normal information screen.



Special playback

NOTE: There may be a slight delay between pressing the button and the function activation.



Fast forward playback

Press **SEARCH** ▶▶ during normal playback.
Each press of **SEARCH** ▶▶ will increase the speed (x2, x8, x16, x32, x100).
(The speed of the search is increased up to only 3 steps in Audio CD.)
During Fast Forward Playback ▶▶ (X2), you can view the movie with sound but the sound may be lost at times.

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

Review playback

Press **SEARCH** ◀◀ during normal playback.
Each press of **SEARCH** ◀◀ will increase the speed (x2, x8, x16, x32, x100).
(The speed of the search is increased up to only 3 steps in Audio CD.)

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

Still playback

Press **PAUSE/STILL** during normal playback.

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

Frame advance

Press **PAUSE/STILL** during still playback.
One frame is advanced each time you press **PAUSE/STILL**.

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

Slow motion playback

Press **SLOW** during normal playback or still playback.
Each press of **SLOW** will change the speed of the slow (1/2, 1/4, 1/8, 1/16).

- To resume normal playback, press **PLAY**.
- To resume the still playback, press **PAUSE/STILL**.

Locating a chapter or track

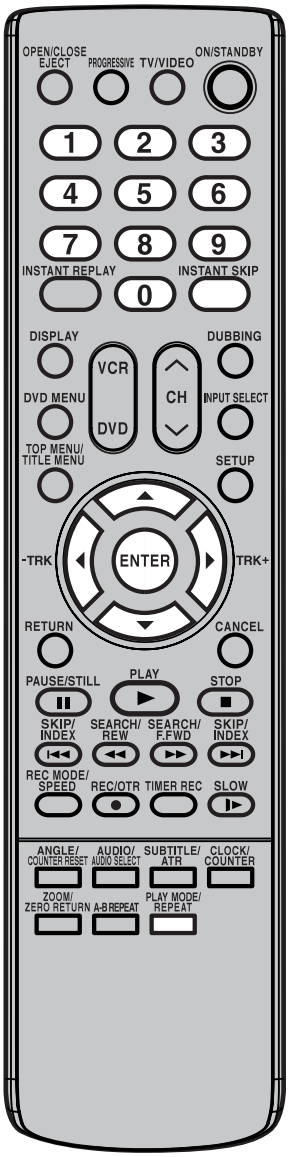
Press **SKIP** ▶▶I or **SKIP** I◀◀ during playback to locate a chapter that you want to watch.
Each time you press the button, a chapter or track is skipped.

- When you press **SKIP** I◀◀ once, playback starts from the beginning of the current chapter or track. If you want to play the preceding chapter or track, press **SKIP** I◀◀ twice in quick successions.

NOTES:

- 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.
- Fast forward and review playback does not work with a MP3/WMA/JPEG-CD.
- Frame advance and slow motion does not work with an Audio CD.

Instant skip / Locating a specific scene



Instant skip

Use this function to skip commercials while playback.

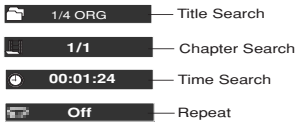
Press **INSTANT SKIP** during playback.
The time forwards to a point approx. 30 seconds later and playback resumes.

NOTE:
With some DVD-Video, the Commercial skip operation may not work.

Locating a specific scene

Specify the time recorded on the disc, chapter or title to playback.

1 Press **PLAY MODE**.
The play mode screen will appear.



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

Title Search: Select the title number to be played back.
Chapter Search: Select the chapter number to be played back.
Time Search: Input the time to be played back.

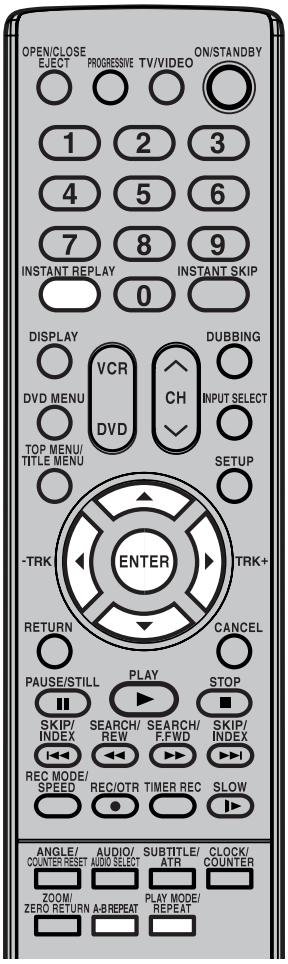
The screen above shows the display when "Title Search" is selected.

3 When selecting "Time Search", input the time to be played back with the **numeric keys**. When selecting "Chapter Search" or "Title Search", press ◀ or ▶ to select the chapter number or title number.

4 Press **ENTER**.
The playback starts at the point you selected.

NOTE:
For "Repeat", see "Title/Chapter repeat playback" (page 36).

Repeat playback



NOTES:
- Some discs may not work with the repeat operation.
- In A-B repeat mode, subtitles near point A or B may not appear.
- A-B repeat does not work during the Title and the Chapter repeat playback.
- You may not be able to set A-B repeat, depending on the scenes of the DVD.
- A-B repeat and Title/Chapter repeat does not work with a MP3/WMA/JPEG-CD and Video CD.
- Title/Chapter repeat does not work with an Audio CD.

Instant replay

This feature can be used to repeat the last 10 seconds of viewed material, and continues to play as normal.

Press **INSTANT REPLAY** during playback.
It returns to a point 10 seconds before and playback resumes.

NOTES:
- The current title will playback from the beginning when INSTANT REPLAY is pressed if the current title elasped times is less than 10 seconds.
- With some DVD-Video, instant replay operation may not work.

A-B repeat playback

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

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

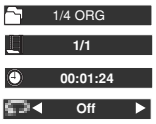
2 Press **A-B REPEAT** again.
The end point is selected. Playback starts at the point that you selected. Playback stops at the end point, returns to point A automatically, then starts again.

To resume normal playback press **A-B REPEAT** again.
"Off" appears on the screen.

Title/Chapter repeat playback

1 Press **PLAY MODE**.
The play mode screen will appear.

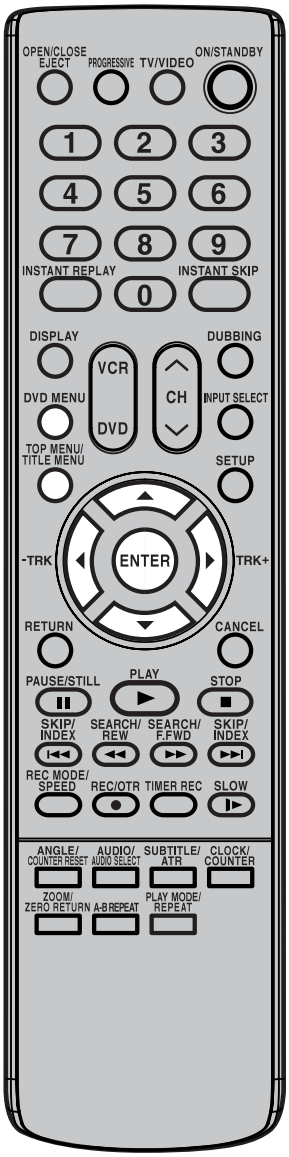
2 Press ▲ or ▼ to select "Repeat".



3 Press ◀ or ▶ to select "Off", "Chapter" or "Title".
Off: Playback is not repeated.
Chapter: The chapter is played back repeatedly.
Title: The title is played back repeatedly.

4 Press **ENTER**.
To cancel the repeat playback, select "Off" in step **3**.

Title selection / DVD menu



NOTE:
Depending on the DVD, you may be unable to select the title, and a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc.

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/TITLE MENU** during playback.
The title menu appears on the screen.

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

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

3 Press **ENTER**.
The selected title will start playback.

DVD menu

Some DVDs allow you to select the disc contents using the menu. When you playback these DVDs, you can select the subtitles language and soundtrack language, etc. using the DVD menu.

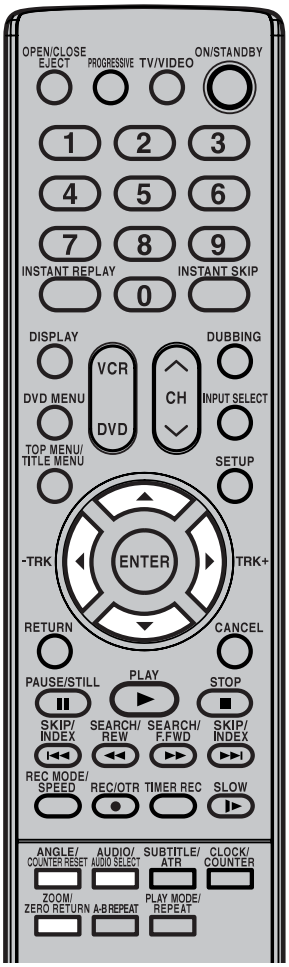
1 Press **DVD MENU** during playback.
The DVD menu appears on the screen.

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

Changing angles / Zooming



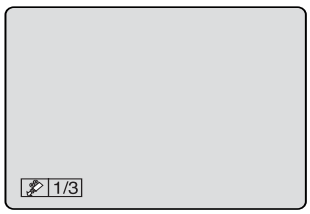
NOTES:

- Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the disc.
- You can use the Pause, Slow, Search or Skip feature in the zoom mode.

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.

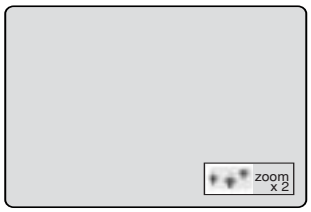


2 Press **ANGLE** repeatedly until the desired angle is selected.

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.

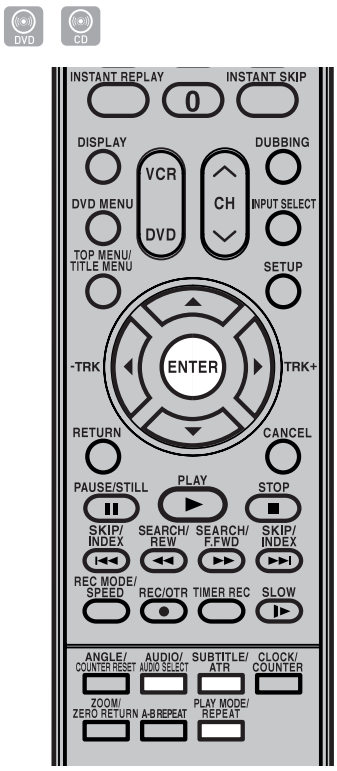
1 Press **ZOOM** during playback.
The center part of the image will be zoomed in.
Each press of **ZOOM** will change the ZOOM “x2” and “x4”.
Video CD discs may not have the ZOOM “x4” function.



2 Press ▲/▼/◀/▶ to view a different part of the frame.
You may move the frame from the center position to UP, DOWN, LEFT or RIGHT direction.

3 In the zoom mode press **ZOOM** repeatedly to return to a 1:1 view “x1”.

Changing soundtrack language / Subtitles / To turn off the PBC



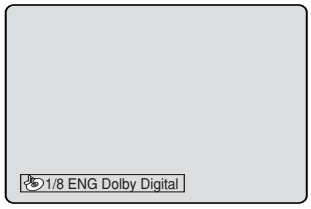
NOTES:

- If the desired language is not heard after pressing the button several times, the language is not recorded on the disc.
- Soundtrack is changed or subtitles language is cancelled when you open the disc tray. The initial default language or available language will be heard and seen if the disc is played back again.
- Depending on the DVD, you may be unable to turn on, turn off, or change the subtitles even if they are recorded on the disc. While playing the DVD, the subtitles may change while opening or closing the disc tray, or while changing the title.
- In some cases, the subtitles language is not changed to the selected one immediately.

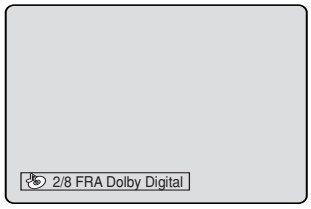
Changing soundtrack language

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

1 Press **AUDIO** during playback.
The current soundtrack language will appear.



2 Press **AUDIO** repeatedly until the desired language is selected.
The on-screen display will disappear after a few seconds.



■ In case of VIDEO CD playback

Audio type will change as follows, each time you press **AUDIO**.

VIDEO CD

Stereo → L CH → R CH

S-VCD

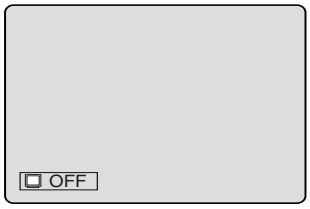
1/2 Stereo → 1/2 L → 1/2 R → 2/2 Stereo → 2/2 L → 2/2 R

Subtitles

Turning the subtitles On and Off

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

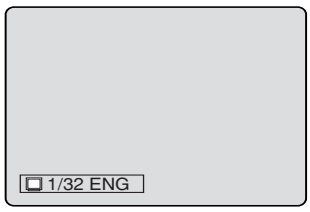
Press **SUBTITLE** during playback until "OFF" appears.



Changing the subtitles language

You can select the language when playing back a disc recorded with multilingual subtitles.

Press **SUBTITLE** repeatedly during playback until your desired language appears.
The on screen display will disappear after a few seconds.

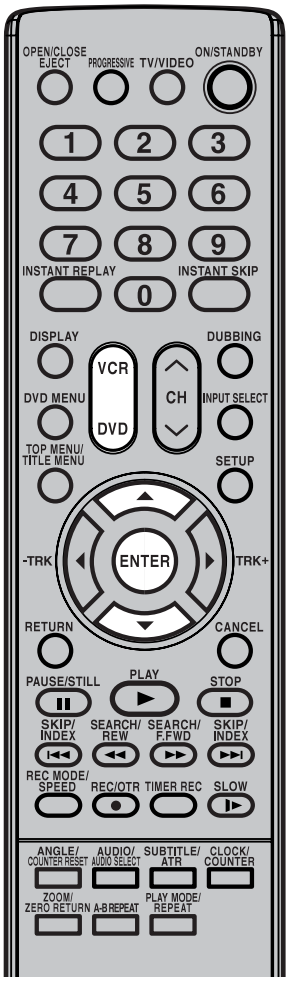


To turn off the PBC (VIDEO CD version 2.0)

Press **PLAY MODE** in the stop mode, select the title then press **ENTER**.

Various operations on CD

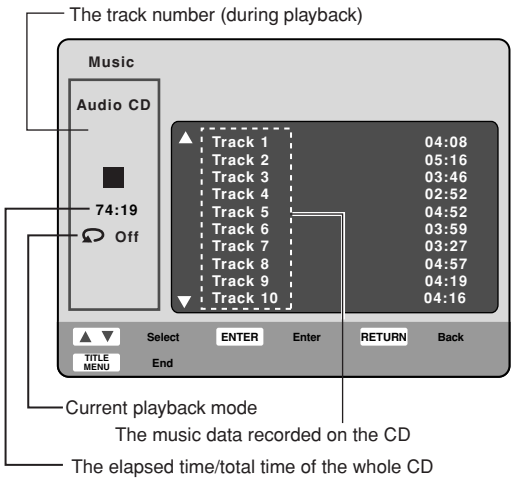
This section describes the Music list screen where music CDs can be played back using the various operations.



Preparation:

- Turn ON the TV and set to the video input mode.
- Load the music CD.
- Press **DVD** to select the DVD mode. (The DVD indicator will light.)

The Music list screen will appear.



Press **ENTER**.
The menu list will appear.

Playing back a selected track

1 Press ▲ or ▼ to select the track number you want to playback and press **ENTER**.

2 Press ▲ or ▼ to select "Play" from the menu list and press **ENTER**. The selected track will be played back.

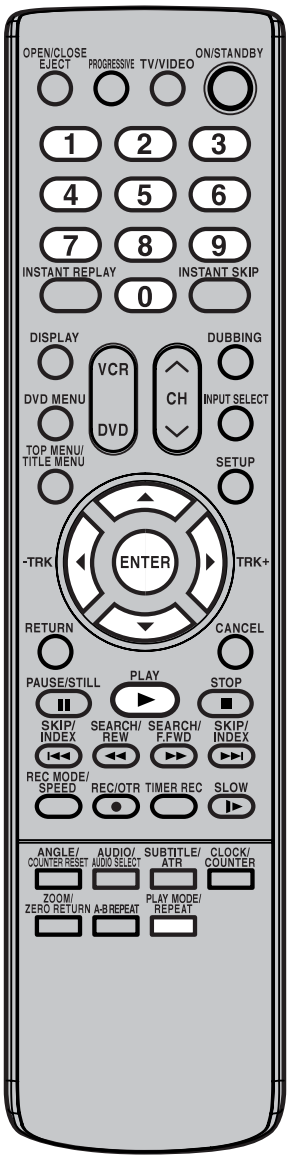
Playing back programs

You can specify the playback order yourself.

1 Press ▲ or ▼ to select the track number that you want and press **ENTER**.

2 Press ▲ or ▼ to select "Program" from the menu list and press **ENTER**.
The selected track number will appear at the right side of the Program List.

Various operations on CD



NOTE:
Both Program playback and Random playback are not possible with a Video CD or SVCD.

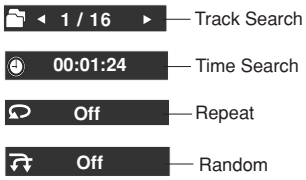
3 Repeat steps **1** and **2** to add on additional tracks to Program List.

4 Press **PLAY**.
The tracks will be played in the changed order.

To cancel program playback, select “Delete” from the menu list and press **ENTER**.

Locating a specific track

1 Press **PLAY MODE**.
The play mode screen will appear.



2 Press ▲ or ▼ to select “Track Search”.

3 Press ◀ or ▶ to select the track number.

4 Press **ENTER**.
Playback will start from the selected track.

Playing back track by specifying the time

1 Press ▲ or ▼ to select “Time Search” from the play mode screen during playback or resume stop.

2 Press **numeric keys** and ◀ or ▶ to specify the elapsed time of the track (this will be the starting point of playback) and press **ENTER**.
Playback will start from the specified elapsed time.

Repeat playback

1 Press ▲ or ▼ to select “Repeat” from the play mode screen during playback.

2 Press ◀ or ▶ to select “All” or “Track”, then press **ENTER**.
All: All tracks on CD will be played back repeatedly.
Track: The selected track will be played back repeatedly.
Program: During program playback, the programmed tracks will be played back repeatedly

To cancel the repeat playback, select “Off” in step **2**.

Random playback

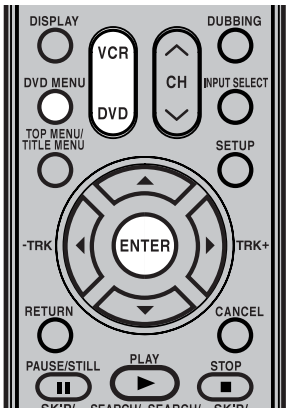
1 Press ▲ or ▼ to select “Random” from the play mode screen during playback.

2 Press ◀ or ▶ to select “On”, then press **ENTER**.
The tracks will be played in random order.

To cancel random playback, select “Off” in step **2**.

MP3/WMA/JPEG playback

MP3 and WMA files can be played back. You can also display JPEG files on the TV screen and enjoy them as a slide show.
Some discs may not play due to the condition of the recording.



Limitations on MP3/WMA/ JPEG CD playback:

- MP3/WMA/JPEG CD is a disc that is standardized by ISO9660.
- The directory and file names of the MP3/WMA/JPEG CD must correspond to the ISO standardized file names.
- This unit can read 200 files per directory. If one directory has more than 200 files, it reads up to 200 files, the remaining files will be omitted.
- The unit is able to recognize up to a maximum of 50 directories per disc.
- 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. Long file names will be cut.
- The music files recorded by “Hierarchical File System ” (HFS) cannot be played.

Preparation:

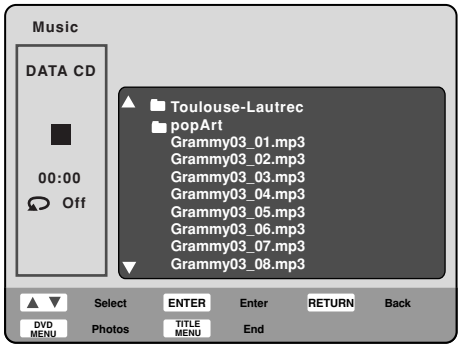
- Turn ON the TV and set to the video input mode.
- Load the disc storing MP3, WMA or JPEG.
- Press **DVD** to select the DVD mode. (The DVD indicator will light.)

Using the Music List/Photos List screen

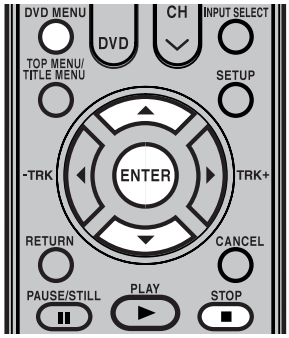
The Music list/Photos list screen will appear.

The MP3, WMA and JPEG files and folders stored in the disc are displayed .

- Select a folder and press **ENTER**. The files in the folder appear.
- Each press of **DVD MENU** will change the Music list and the Photos list screen.



MP3/WMA/JPEG playback



MP3 CD

- MP3 files must have the extension letters ".mp3".
- Standard, sampling frequency, and the bit rate:
  MPEG-1 Audio
  32kHz, 44.1kHz, 48kHz
  32kbps to 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.

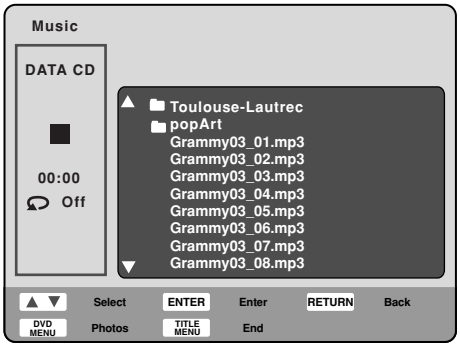
WMA CD

- When creating a WMA disc, make sure that the copyright function is off. DRM (Digital Rights Management) files cannot be played back.
- WMA files must have the extension letters ".wma".
- Standard, sampling frequency, and the bit rate:
  WMA version 7 and 8
  32kHz, 48kbps
  44.1kHz, 48kbps to 192kbps
  48kHz,128kbps to 192kbps
- Music files recorded as mono, 48kHz, 48kbps cannot be played back by this unit.

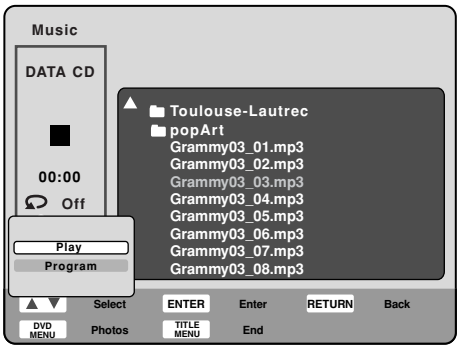
Playing back MP3/WMA files

1 Press **DVD MENU** to select the Music list.

2 Press ▲ or ▼ to select MP3 or WMA file.



3 Press **ENTER**, then press ▲ or ▼ to select "Play" from the menu list and press **ENTER**.



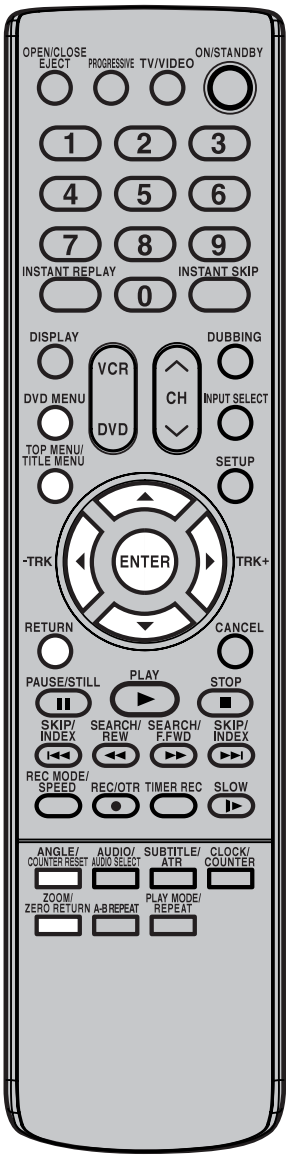
The selected track will be played back.

4 To stop playback of the MP3 or WMA files, press **STOP**.

This DVD/VCR requires discs and 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 or WMA files) and these require certain pre-existing conditions (see above) to ensure compatible playback. Because this area of technology is still evolving, Toshiba cannot guarantee that all recordable discs will produce optimal playback quality. The technical criteria set forth in this owner's manual are meant only as a guide.

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 playback

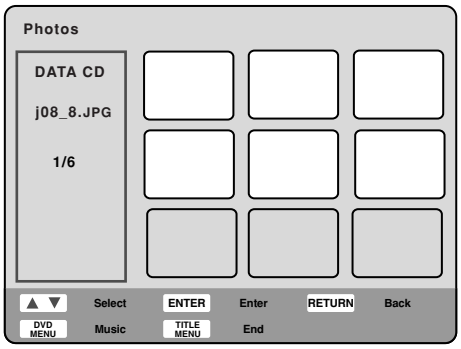


JPEG CD
JPEG files must have the extension letters “.jpe”, “.jpeg” or “.jpg”.

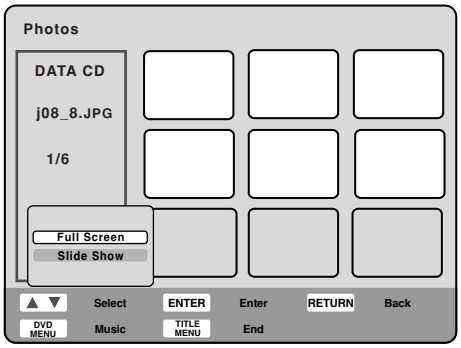
Playing back JPEG files

1 Press **DVD MENU** to select the Photos list.

2 Press ▲/▼/◀/▶ to select JPEG file.



3 Carry out either of the item **a** or **b** below.
- **a**: Press **ENTER**, then press ▲ or ▼ to select “Full Screen” from the menu list and press **ENTER**.
- **b**: Press **ENTER**, then press ▲ or ▼ to select “Slide Show” from the menu list and press **ENTER**.

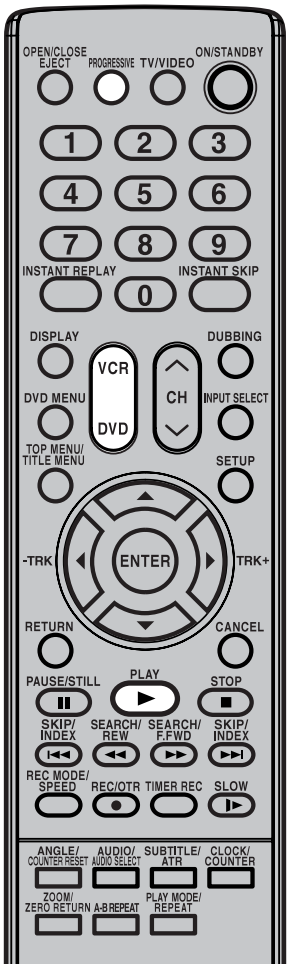


- Press **ZOOM** to enlarge the displayed image.
- Press **ANGLE** in Full Screen mode to rotate the image by 90 degrees each time.

4 To return to the Photos list, press **RETURN**.
- To stop the slide show, press **TITLE MENU**.

Progressive scan

The unit supports the progressive scanning system as well as the conventional interlaced scanning system. If your TV is equipped with component video input jacks which support the progressive video input, you can enjoy high quality picture by making the progressive scanning mode active.



Preparation:
- Connect to a TV equipped with component jacks which support the progressive video input.
- Turn ON the TV and set it to the corresponding video input mode.
- Press **DVD** to select the DVD mode. (The DVD indicator will light.)

1 Press and hold **PROGRESSIVE** for more than 2 seconds in the stop mode. The PROGRESSIVE indicator "P" on the display window will light.

- The unit recognizes the picture source (film or video) of the current disc according to the disc information.
- The progressive scanning mode works not only with DVD pictures, but also with pictures from TV and external input terminals.
- To make the progressive scanning mode inactive, press and hold **PROGRESSIVE** for more than 2 seconds in the stop mode. The PROGRESSIVE indicator "P" on the display window will go off.

Different scanning modes

Interlaced scan
Technology that alternately displays odd-numbered scanning lines and even-numbered scanning lines. Also called "480i", "i" meaning "interlace".

Progressive scan
Technology that simultaneously displays odd-numbered scanning lines and even-numbered scanning lines from top to bottom. Also called "480p", "p" meaning "progressive".

NOTES:
- Some discs may not be played back with the progressive scan mode correctly because of the disc characteristics or recording condition.
- There are some progressive TV and High-Definition TV sets that are not fully compatible with the unit, resulting in an unnatural picture when playing back a DVD disc in the progressive scan mode. In such a case, use the interlaced scanning mode.
- You cannot activate the progressive scan mode when the unit is in the VCR mode.

Loading and unloading a cassette tape

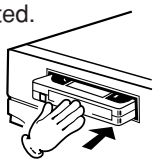
Use only video cassette tapes marked VHS or S-VHS .

SQPB

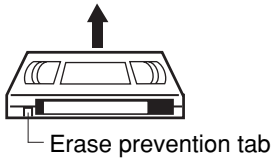
- Cassettes marked “VHS” (or “S-VHS”) can be used with this video cassette recorder. However, S-VHS recording is not possible with this model.
- This model is equipped with SQPB (S-VHS QUASI PLAYBACK) that makes it possible to playback S-VHS recordings with regular VHS resolution.
- HQ VHS is compatible with existing VHS equipment.

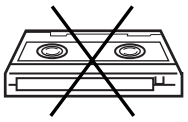
Loading

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 VCR power will turn ON automatically.

Automatic playback

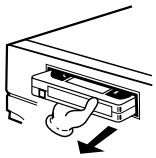
When loading a cassette tape without an erase prevention tab, playback will start automatically.

Unloading

You can eject the video tape while the unit is turned off.

1 Press **EJECT** on the unit or the remote control.

2 Remove the cassette tape.

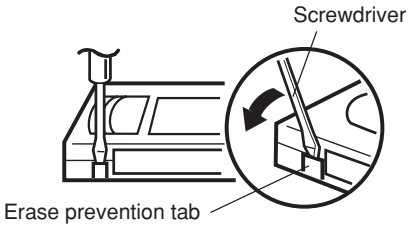


Automatic tape eject

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

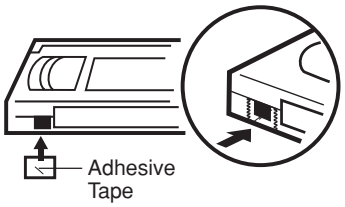
To prevent accidental erasure

Remove the erase prevention tab with a screwdriver.



To record again

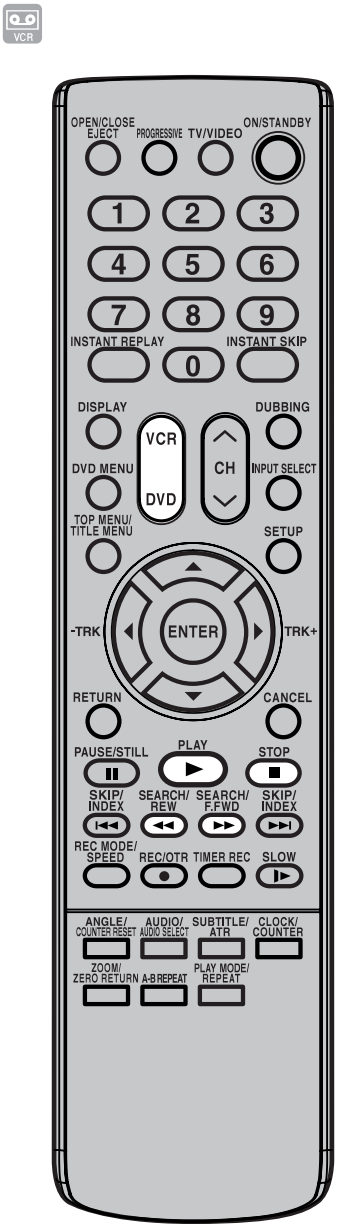
Cover the hole with a piece of adhesive tape.



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



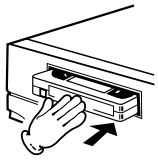
NOTES:

- This VCR selects the playback tape speed SP, LP or SLP automatically.
- A video cassette tape and DVD disc cannot be played back simultaneously.

Preparation:

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

1 Load a pre-recorded tape
(When loading a cassette tape without the erase prevention tab, playback will start automatically).



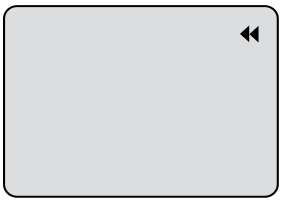
2 **To start playback**
Press **PLAY**.
Playback will start.
" ▶ " will appear on the screen for about 4 seconds.

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.

To rewind the tape or forward it rapidly

To rewind the tape:

Press **REW**.



To fast forward the tape:

Press **F.FWD**.

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

Forward/Reverse picture search mode

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

Special playback

Picture search

Reverse picture search function
Press **REW** x 1 or x 2 during the playback.
Forward picture search function
Press **F.FWD** x 1 or x 2 during the playback.
To resume normal playback: Press **PLAY**.

SPEED SEARCH TIMES

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

Still picture

Press **PAUSE** during playback.
To resume normal playback: Press **PLAY** or **PAUSE**.

Slow motion

Press **SLOW** during playback.
To resume normal playback: Press **PLAY** or **SLOW**.

Slow tracking and vertical lock adjustment

If noise bars appear in the picture during slow motion, press the **TRK +** or **–** to reduce the noise bars.
If the still picture jitters excessively, press **TRK +** or **–** to stabilize the still picture.

Frame by frame picture

Press **PAUSE** during playback.
Each time you press the **SLOW** button, the picture advances one frame by frame.
To resume normal playback: Press **PLAY** or **PAUSE**.

Adjusting tracking condition

Automatic tracking adjustment

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

Manual tracking adjustment

If automatic tracking cannot eliminate noises well during playback, press **TRK +** or **–** to eliminate the noises. "MANUAL TR." will appear. Press once for a fine adjustment, or press and hold for a coarse adjustment.

- Press **ATR** to reactivate automatic tracking again. "AUTO TR." will appear.

NOTES:

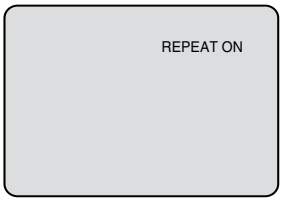
- The audio output is muted during SPEED SEARCH, STILL, FRAME ADVANCE and SLOW MOTION.
- During picture search mode, there will be noise bars which are caused by the system.
- The Special Playback will automatically change to playback after approx. 5 minutes to protect the video tape against excessive wear.

Repeat playback

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

1 Press **REPEAT** during playback.

2 By pressing **REPEAT** each time, "REPEAT ON" or "REPEAT OFF" is selected in turn.



3 When "REPEAT ON" is selected and the tape is played back to the end, it will automatically rewind to the starting point and played back again.
The display "REPEAT ON" goes out about 3 seconds.
To cancel repeat playback: Press **REPEAT** to select "REPEAT OFF".

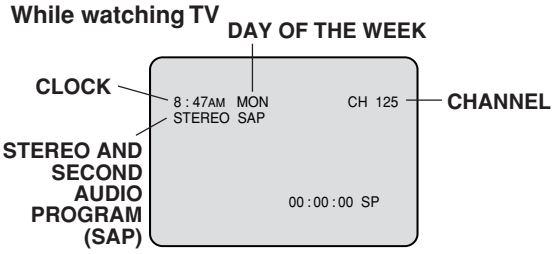
Instant skip

Press **INSTANT SKIP** during playback.
The video is rapidly forwarded for approx. 30 seconds and playback resumes.
You may press the button up to six times in a row to move 180 seconds ahead.

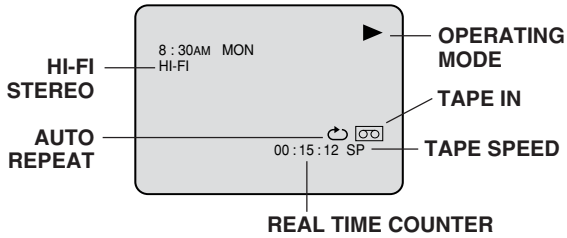
To display VCR operation status

Press **DISPLAY**. The clock and day of the week and other information will be indicated.

While watching TV



While operating a tape



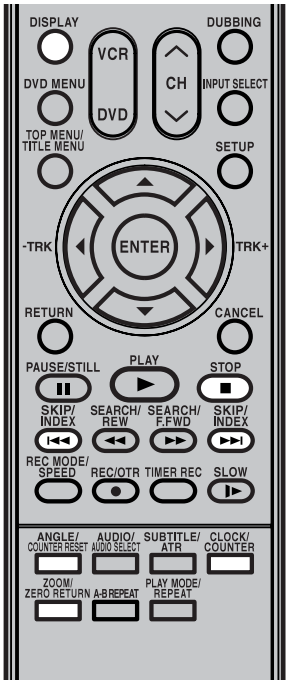
To cancel the display: Press **DISPLAY** again.

ZERO RETURN function / Video index search system

VCR

ZERO RETURN function

This function makes tape rewinding stop at the counter "00:00:00" position automatically.



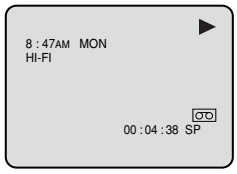
NOTES for Counter Display:

- 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 non-recorded (blank) sections of the tape. When you rewind, fast forward or play tapes through blank sections, the counter stops.

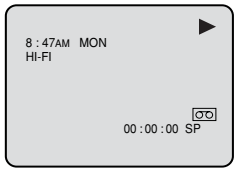
NOTES for Video index search system:

- 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.

1 Press **DISPLAY**.
The counter display shows the tape running time during playback or recording.



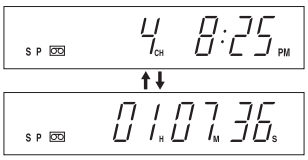
2 Press **COUNTER RESET** at the desired tape position. The counter display will be reset to the "00:00:00" position (e.g. the beginning of recording).



3 Press **STOP** when playback or recording is finished.
Press **ZERO RETURN**.
The tape will be rewound or fast forwarded and automatically stop at the "00:00:00" position.

Switching the display between clock and counter

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

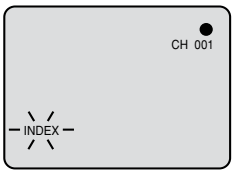


Video index search system

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

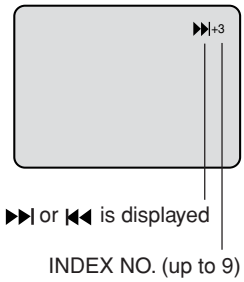
Recording an INDEX MARK

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



Index search

Press **INDEX** ▶▶I or I◀◀ during stop or play mode.
For Succeeding programs: Press **INDEX** ▶▶I.
For Preceding programs: Press **INDEX** I◀◀.
(Additional press increases the INDEX NO. up to 9.)
When the **INDEX** ▶▶I or I◀◀ is pressed, the unit starts searching the selected INDEX NO. and finds the portion. Then playback starts automatically.
To stop the INDEX SEARCH, press **STOP**.



Read this before recording on disc

This section explains some information on disc before recording. Read it before attempting to record.

NOTE:
If a power failure occurs or the AC cord plug is disconnected, the plogram being recorded will be lost, or the disc may not be playable when performing recording, editing, initializing, finalizing or any other function. Manufacturer cannot guarantee the loss of program or disc occurrence. To start recording again, re-format the disc or use a new disc and follow the instruction on recording.

Types of disc

You can use DVD-RAM, DVD-RW and DVD-R discs to record video.

DVD-RAM/-RW (VR mode)

- This mode involves multiple editing functions.
- Various editing options using a created Playlist.

DVD-RW (Video mode)/-R

- Simple editing (renaming titles).

For more information on recording format, see "Recording format" (page 10).

Recording modes

There are 4 modes for recording on disc. Recording time and quality vary according to mode.

Recording mode	Recording time	Quality
XP	Approx. 60 min	Can record high quality images.
SP	Approx. 120 min	Can record normal quality images.
LP	Approx. 240 min	Quality deteriorates slightly, but recording time is longer.
SLP	Approx. 360 min	Recording time is prioritized over quality.

- Recording time above is based on a 4.7GB disc.

NOTES:
Recording time can change for the following reasons.
- When image quality is poor as during poor TV reception.
- When recording on a disc that has been edited before.
- When the video is followed with recordings of still images or just audio.

Since DVD recording is performed using VBR (Variable Bit Rate), recording time varies according to the recorded content.
To know the correct recording time, stop recording and check the media information. (See page 33.)

Disc remaining time

VR mode

- Recording is possible as long as there is available space on the disc. (Finalized discs can be recorded by cancelling the finalization, see "Undo Finalize" on page 30.)
- Erasing unnecessary title frees up available space on the disc. (Titles can be erased from finalized discs by cancelling the finalization. See "Undo Finalize" on page 30.)

Video mode

- Up until the disc is finalized, recording is possible as long as there is available space on the disc. (Once the disc has been finalized, additional recording and erasing are not possible.)
- The remaining time cannot be increased nor overwrite the recorded title.
- Titles cannot be erased nor overwrite the recorded titles .

NOTE:
Because of characteristics peculiar to digital video compression technology, scenes with fast motion may appear as a matrix of larger blocks.

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